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BULLETIN

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National Oceanic &
Atmospheric Administration
U.S. Dept. of Commerce

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF SEPTEMBER, 1883.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

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WASHINGTON, D. C.:
OCTOBER, 1884.

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INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 1, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.93	760.1	82.0	27.8	82	e.			1		0			0	0	clear	Roziere.
Algiers			29.92	760.0	85.3	29.6	36	w.			6		0			0	0	clear	Thève.
La Galle			29.96	760.9	82.0	27.8	65	nne.			3		1			0	0	very fair	Fonfrède.
Tunis			29.96	760.9	89.6	32.0	38	se.			3		3			0	0	pretty fair	Delord.
Saida			29.96	761.0															Pérès.
Tebessa			30.00	762.0	81.0	27.2	54	nw.			4		3			0	0	pretty fair	St. Martin.
Geriville					84.2	29.0	19	w.			4		2			0	0	fair	Forfert.
Laghouat			30.01	762.2	87.4	30.8	32	se.			2		2			0	0	fair	Abraham.
Biskra			30.01	762.3	91.8	33.2	40	calm			0		0			0.134	3.4	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.87	758.7	49.5	9.7	78	w.	6	2.7			10 s			0.069	1.8	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.71	754.6	29.79	756.9	45.0	7.2	91	s.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.3	29.79	756.7	70.9	21.6	60	s.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.97	735.8	29.69	754.1	82.4	28.0	41	s.	9.8	4.4			8			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.48	723.4	29.80	756.8	86.5	30.3	33	s.			5		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.35	720.0	29.61	752.0	77.0	25.0	53	nw.			2		7			0	0		The Staff.
Lemberg	28.89	733.8	29.84	757.9	73.9	23.3	59	s.			3		0			0	0		Dr. T. Stanecki.
Pola	29.71	754.5	29.81	757.2	81.9	27.7	63	sse.			2		4			0.091	2.3		I. R. Hydrographic Office.
Szathmar	29.35	745.5	29.80	756.8	85.5	29.7	39	s.			3		1			0.004	0.1		Joseph Midlinszky, S. J
Szegedin	29.48	748.9	29.74	755.5	83.8	28.8	48	s.			3		6			0.236	6.0		Karl Stu..cel.
Trieste	29.78	756.4	29.88	758.9	75.4	24.1	59	nw.			1		3			0.543	13.8		Royal Academy.
Vienna	28.95	735.4	29.62	752.3	84.6	29.2	39	s.			3		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.34	745.2	29.43	747.5	56.0	13.3	69	se.	9	4.0			2			0.690	17.5	blue sky	W. Boswell.
Armagh, Observatory	29.09	738.9	29.32	744.7	55.0	12.8	85	se.	12	5.4			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.38	746.2	60.5	15.8	63	se.	16	7.2			10					overcast	John Hartnup.
Bolton, Sharples	28.88	733.5	29.40	746.7	58.4	14.7	73	s.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.03	737.3	29.42	747.3	62.7	17.1	60	w.			2		7			0.45	11.4	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.92	760.0	29.94	760.5	83.0	28.3	67	ne.			2		3					d. clouds	Corpl. W. I. Quil, A. H. C
Cardington	29.42	747.3	29.52	749.8	64.4	18.0	66	sw.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	29.38	746.2	29.55	750.6	64.2	17.9	58	s.			2		8					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.07	738.4	29.29	744.0	57.0	13.9	92	sse.			6		10					raining	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	81.0	27.2	34	e.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.12	739.6	29.16	740.7	51	10.6	93	e.			4		10			0.18	4.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	29.99	761.7	77.0	25.0	86	w.			4		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.17	740.9	29.37	746.0	60.4	15.8	58	s.			2		10					d clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.56	745.7	29.52	749.8	62.4	16.9	72	ssw.			3		10					overcast	The Staff.
Guernsey	29.19	741.4	29.48	748.8	61.0	16.1	82	s.			4		10					threatening	A. Collenette, F. M. S.
Kew, Observatory	29.48	748.8	29.52	749.8	64.3	17.9	62	ssw.	17	7.6			9					d. clouds	The Staff.
Leicester, Museum	29.21	741.9	29.46	748.3	62.0	16.7	64	sw.			2		8					overcast	J. C. Smith.
Malta, Mediterranean	29.85	758.2	29.93	760.2	81.2	27.3	78	se.			2		3			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	84.0	28.9	62	ne.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.90	734.0	29.41	747.0	60.0	15.6	76	s.			3		5					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.26	743.2	29.49	749.0	62.0	16.7	62	s.			3		10					overcast	The Staff.
Plymouth	29.31	744.5	29.38	746.2	58.0	14.4	93	s.			4		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.33	745.0	29.43	747.5	55.1	12.8	83						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.87	758.7	29.94	760.5	87.4	30.8	38	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.14	740.1	29.41	747.0	61.9	16.6	66	s.			1		6			0.42	10.7	d. clouds	W. F. Cooper.
Silloth Rectory	29.35	745.5	29.38	746.2	59.0	15.0	76	se.			2		8			0.200	5.1	showery	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.43	747.5	60.3	15.7	65	sse.	16	7.2			10 s					misty	W. C. Carlisle.
Strathfield Turgiss					62.5	16.9	64	sw.			1.0		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.06	738.1	29.16	740.7	59	15.0	94	se.			7		10					raining	W. Newcombe.
Valencia, Observatory	28.72	729.5	28.75	730.2	57.6	14.2	90	e.	45	20.1			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.59	751.6	29.98	761.5	83.8	28.8	49	sw.	2.5	1.1			0			0.008	0.2	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.21	767.3	30.25	768.3	55	12.8	93	calm	0	0		4 c	0	e.		0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.22	767.6	30.26	768.6	59	15.0	87	sw.	3	1.3		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.24	768.1	30.27	768.8	52	11.1	93	sw.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.02	762.5	30.22	767.6	55.7	13.2	90	nw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.22	767.6	30.27	768.8	54.0	12.2		w.			2	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.	27.91	708.9			54	12.2	74	calm	0	0			10 ks		ne.	0	0	cloudy	Alex. Taylor.
Father Point, Quebec*	30.21	767.3	30.23	767.8	55	12.8	86	w.	2	0.9		0	hz.			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.17	740.9	30.00	762.0	46	7.8	96	n.	7	3.1		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.23	767.8	30.30	769.6	49.5	9.7	97	se.	1.0	0.4			fg.			0	0	dense fog	Prof. Thos. Harrison
Grand Manan, N. B.	30.23	767.8	30.29	769.4	53	11.7	86	calm	0	0		2 k	0	n.		0	0	light fog	J. Chipman Seeley
Granton, Ontario	29.16	740.7	30.25	768.3	58.0	14.4	100	calm	0	0		c	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.19	766.8	30.32	770.1	54	12.2	100	calm	0	0			fg.			0	0	dense fog	A. Allison.
Hamilton, Ontario	29.79	756.7	30.17	766.3	63.2	17.3	88	sw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.92	760.0	30.25	768.3	60	15.6	96	s.	1	0.4		0	0			0	0	hazy	A. P. Knight, M. A.
Little Glace Bay, N. S.																			C. H. Rigby.
London, Ontario	29.36	745.7	30.26	768.6	58.7	14.8	97	calm	0	0		0	0			0	0	blue sky	E. B. Reed.
Medicine Hat	27.81	706.4	30.08	764.0	51	10.6	47	ne.	9	4.0			10 ks			0	0	d. clouds	John Ewart.
Montreal, Quebec*	30.04	763.0	30.24	768.1	65	18.3	73	sw.	5	2.2		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.98	761.5	30.22	767.6	54.8	12.7	84	nne.					10 s			0	0	overcas	A. McGill, M. A.
Parry Sound, Ontario*	29.50	749.3	30.18	766.6	60	15.6	93	se.	3	1.3		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.48	748.8	30.23	767.8	54.7	12.6	90	calm	0	0		0	0			0	0	hazy	Wm. O'Connor, M.A.
Port Dover, Ontario	29.50	750.8	30.25	768.3	33	0.6	100	nw.	2	0.9			fg.			0	0	dense fog	H. Morgan.
Port Stanley, Ontario	29.59	751.6	30.24	768.1	52	11.1	100	calm	0	0		hz	0			0	0	hazy	M. Payne.
Que Appelle, N. W. T.	27.84	707.1	30.15	765.8	37	2.8	89	calm	0	0		5 cs	0	w.		fnap.	fnap.	fair	Leslie Gordon.
Quebec, Quebec*	29.90	759.4	30.26	768.6	58	14.4	96	calm	0	0			fg.			0	0	dense fog	Capt. Asse, R. N.
Rockliffe, Ontario*	29.73	755.1	30.19	766.8	52	11.1	93	calm	0	0			fg.			fnap.	fnap.	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.20	767.1	30.25	768.3	52	11.1	93	e.	1	0.4		hz	5 n			0	0	cloudy	
St. John, N. B.	30.14	765.5	30.29	769.4	52.0	11.1	100	e.	1	0.4			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F.	29.90	759.4	30.15	765.8	52	11.1	100	ne.			1		10 n			0.81	20.6	cloudy	The Commandant.
Saugeen, Ontario*	29.46	748.3	30.16	766.1	63	17.2	84	sw.	6	2.7		0	0			0	0	clear	
Stratford, Ontario	28.96	735.0	30.23	767.8	57.9	14.4	91	calm	0	0		0	0			0	0	blue sky	O. J. Macgregor, M. A.
St. Pierre, N. F.			30.16	766.1	57.2	14.0		n.			3					0	0		The Commandant.
S. W. Point, Anticosti	30.10	764.5	30.14	765.5	52	11.1	86	calm	0	0		0	0			0	0	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	30.22	767.6	30.28	769.1	55	12.8	93	sw.	4	1.8		2 c	0	sw.		0.11	2.8	clear	F. C. Hill, C. E.
Toronto, Ontario*	29.87	758.7	30.25	768.3	58	14.4	93	calm	0	0		0	hz			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.17	740.9	30.23	767.8	56.3	13.5	92	sw.	1.5	0.7						0	0	foggy	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.22	767.6	30.29	769.4	55	12.8	93	calm	0	0		0	hz			inap.	inap.	light haze	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	62.5	16.9	88	wsw.	6.5	2.9			10 ks			0	0	cloudy	I. Garfelt.
Springbok Fontein	27.85	707.4			75	23.9	36									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.05	763.3	30.13	765.3	54.5	12.5	80	sw.			1	8 cs						fair	Samuel Redolez.
Iquique	30.01	762.3	30.04	763.0	59.9	15.5	74	s.			3							foggy	Rafael Moreno.
Niebla	29.81	757.2	29.92	759.9	40.3	4.6	77	e.			4	1 c		s.		0	0		Federico Kühling.
Punta Caldera	29.98	761.6	30.08	763.9	54.5	12.5	82	se.			1		10 n		sw.			cloudy	Manuel Tobar.
Punta Corona	30.09	764.2	30.28	769.0				w.			3	5 k		nw.		0	0	fair	Ignacio Ayala.
Valparaiso	29.96	760.9	30.10	764.5	51.6	10.9	88	n.			2							clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.25	641.4																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.93	760.1	29.95	760.7	82.6	28.1	93	sse.	5.6	2.5			10 n			0.280	7.1	raining	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.38	746.3	29.43	747.5	63.3	17.4	84	s.	9	4			10					hazy	Oversergent Fischer.
Fanoe	29.38	746.2	29.40	746.7	64.0	17.8	91	wsw.	4	2			7						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.69	754.2	29.74	755.3	45.3	7.4	90	ne.	16	7			8						A. O. Thorlacius.
Thorshavn	29.51	749.6	29.54	750.2	52.9	11.6	75	calm	0	0			8						Overloerer Bergh.
Vestervig	29.25	742.9	29.34	745.2	63.1	17.3	90	ssw.	9	4			10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.65	753.0			91.8	33.2		n.	5.4	2.4			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.21	742.0	29.84	758.0	70.5	21.4	69	s.			1		nk		sw.	0.126	3.2		M. Labroue, Director.
Alençon, Normal School	29.26	743.3	29.78	756.4	84.6	29.2	77	s.			1		5 k		n.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	29.72	754.8	29.80	756.8	75.6	24.2	74	se.			2		0			3.098	78.7	clear	M. Giraud, Director.
Bar-sur-Seine	29.15	740.3	29.68	753.8	69.4	20.8	51	wsw.			1		8 kn		w.	0.04	1.	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.38	746.2	29.63	752.7	69.1	20.6	51	wsw.			2		8		ssw.	0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.82	732.0	29.70	754.3	69.4	20.8	69	s.								0.866	22.0		M. Gobin, Director.
Bordeaux, Observatory	29.47	748.5	29.72	754.9	70.9	21.6	49	ssw.			1		8		sw.	0.012	0.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.15	740.4	29.68	753.8	71.6	22	60	sw.			6				sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.20	741.7	29.45	747.9	61.2	16.2	95	s.			6		4		s.	0.228	5.8		M. de Kermarée, Dir.
Caen, Normal School	29.50	749.3	29.58	751.4	65.5	18.6	64	sw.			2		5		sw.	0.016	0.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.31	744.4	29.61	752.1	75.4	24.1	67	s.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.17	740.8	29.66	753.3	65.5	18.6	64	ese.			4		1	sw.		0	0	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.39	721.1	29.68	753.9	72.3	22.4	47	w.			2		5		sw.	0.681	17.3		M. Alluard, Director.
Cluny, Normal School	28.92	734.6	29.75	755.6	66.9	19.4	60	nw.			1				sw.	0.098	2.5		M. de Villemontée, Dir.
Commercy, Normal School	28.85	732.8	29.67	753.7	68.4	20.2	61	w.			4	c	5 kn	w.	w.	0.04	1.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.8	29.85	758.2	59.0	15	96	s.			1		9 n			0.346	8.8		M. Jarach, Director.
Gréasque, du Rhone	28.71	729.2	29.79	756.7	73.4	23.0	73	sw.			1		5		sw.	1.276	32.4		M. Kina, Director.
Grenoble, Normal School	29.00	736.6	29.74	755.3	71.6	22	66	nnw.			1		k		se.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.18	715.7	29.70	754.3	65.7	18.7	50	sw.			1	5 ck		ne.		0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.29	743.9	29.56	750.9	62.6	17	73	s.			4		8		s.	0.067	1.7	very cloudy	M. Ollitrault, Director
Lescar, Normal School	29.19	741.4	29.82	757.3	72.5	22.5	67	w.			1		5 k			0.626	15.9	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.31	744.5	29.41	747.1	61.9	16.6	73	s.			6		10	sw.	sw.	0.512	13.0	raining	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.73	729.7	29.76	755.9	63.5	17.5	84	e.			1		10 n			0.524	13.3	covered	M. André, Director
Mans, Normal School	29.40	746.8	29.70	754.3	66.6	19.2		sw.			4		8 kn		sw.	0.04	1.	very cloudy	M. Richard, Director
Marseille, Observatory	29.56	750.7	29.82	757.4	72.5	22.5	57	wsw.			1		7		ssw.	0.795	20.2		M. Stephan, Director.
Montlouis	24.81	630.2	29.65	753.2	53.6	12.0	43	w.	9.4	4.2			8	w.		0.386	9.8		M. Cave for Dr. Fines.
Montpellier, Normal School	29.59	751.6	29.70	754.3	76.6	24.8	74	sw.			2		5			0	0	cloudy	M. Gaizin, Director.
Nantes, Observatory	29.49	749.0	29.65	753.1	66.9	19.4	53	ssw.			1-4		10 n;kn		ssw.	0.067	1.7		M. Larocque, Director.
Perpignan, Observatory	29.69	754.0	29.80	756.8	74.1	23.4	49	e.	1.8	0.8			4	s.		0.433	11.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.12	536.4			40.6	4.8		w.			2		5		w.	0.173	4.4	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.77	730.7	29.81	757.1	65.1	18.4	82	s.			1		5 kn	s.	s.	1.595	40.5	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.98	634.4			48.6	9.2	70	wsw.			3		2 k			0.646	16.4		M. Alluard.
Rochefort, Naval Obs'y	29.66	753.4	29.69	754.2	69.4	20.8	57	ssw.			3		2		sw.	0.32	8.	¼ covered	Lt. E. Lecante, Director.
Roche-sur-Yon, N. School	29.47	748.4	29.67	753.7	65.5	18.6	63	s.			3		10		s.	0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.69	703.2	29.79	756.7	61.7	16.5	77						10		se.	0.55	14.	covered	M. Seger, Director.
Rouen, Normal School	29.57	751.1	29.62	752.3	67.6	19.8	76	wsw.			1		5	sw.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.48	748.7	29.64	752.9	71.2	21.8	46	ssw.			2		8		sw.	0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.13	739.8	29.85	758.1	73.0	22.8	53	nw.			1		2	nw.		0.453	11.5	slightly cl'dy	M. Baillaud, Director.
Tours	29.49	749.0	29.67	753.5	71.6	22.0	46	s.			4		5	sw.	ssw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.15	740.5	29.65	753.0	68.7	20.4	50	w.			2		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.62	752.3	29.77	756.1	72.1	22.3	59	e.	5.8	2.6		c; ck	6 k		w.	0.327	8.3		M. Cartier, Director.
German.																			
Ansbach	28.29	718.6	29.71	754.5	68.0	20.0	64	w.			4		5	w.		0	0		Prof. Jnedt.
Bamberg	28.87	733.2	29.70	754.4	72.3	22.4	55	w.			1		8 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.41	747.0	29.54	750.4	80.6	27.0	43	sw.			2		7			0	0		Dr. Lensch.
Breslau	29.13	740.0	29.66	753.3	80.8	27.1	42	sse.			4		1	ssw.		0	0		Royal University Obs'y.
Carlsruhe	29.27	743.5	29.72	754.9	61.9	16.6	98	nw.			1		10	sw.		0.559	14.2	raining	Albert Senz.
Cassel	28.95	735.3	29.66	753.4	71.4	21.9	47	s.			4		6	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.30	744.2	29.64	752.8	73.8	23.2	53	sw.			1		9			0	0		Physical Society.
Friedrichshafen	28.34	719.9	29.73	755.1	73.8	23.2	57	nw.			2		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.43	747.4	29.52	749.7	66.4	19.1	83	wsw.			5		10			0.051	1.3		E. Preller.
Kiel	29.50	749.3	29.52	749.7	65.7	18.7	78	sw.			2		10			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.21	742.0	29.61	752.1	77.2	25.1	47	sw.			4		9	sw.		0	0		H. Leppig, Asst.
Magdeburg	29.37	745.9	29.54	750.4	74.8	23.8	52	sw.			3		10	sw.				sprinkling	Weather Observatory.
Memel	29.65	753.2	29.70	754.4	72.3	22.4	63	s.			3	6 cs							Issermann.
Munich	27.91	708.9	29.75	755.7	74.3	23.5	51	nw.			2		2	w.		0	0		Central Station.
Neufahrwasser	29.60	751.9	29.62	752.3	77.2	25.1	60	se.			2		3	sse.		0	0		A. Lothes.
Neustadt, Palatinate	29.15	740.5	29.68	753.8	68.4	20.2	77	w.			1		10			0.398	10.1		Dicknether.
Stuttgart	28.76	730.4	29.60	751.7	77.0	25.0	44	sw.			2		6	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.43	747.5	29.45	748.1	65.1	18.4	61	sw.			4		8 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.58	751.3	29.95	760.6	89.6	32.0		ne.			1.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.54	750.4	29.59	751.6	84.5	29.2	75	w.	31.0	13.8			5			0	0	d. clouds	
Deesa	29.09	738.9	29.56	750.7	85.8	29.9	67	wnw.	3.0	1.3			10			0.16	4.1	overcast	
Bombay	29.69	754.0	29.72	755.0	80.4	26.9	87	w.	17.0	7.6			10		w.	1.24	31.5	overcast	
Poona, Yarrowda	27.88	708.1	29.74	755.5	73.0	22.8	86	sw.	17.0	7.6			10			0.04	1.0	overcast	
Trichinopoly	29.51	749.4	29.78	756.4	92.6	33.7	42	w.	0.9	0.4			6			0	0	d. clouds	
Bellary	28.26	717.7	29.71	754.5	84.5	29.2	56	w.	16.0	7.2			6			0	0	d. clouds	
Belgaum	27.24	691.8	29.79	756.7	71.1	21.7	91	w.	10.0	4.5			10	w.	s.	0.74	18.8	d. clouds	
Lahore	28.80	731.5	29.52	749.8	93.1	33.9	57	n.	2.0	0.9			2			0	0	blue sky	
Roorkee	28.66	727.9	29.54	750.3	83.8	28.8	84	calm	0	0			10	s.		0.45	11.4	overcast	
Agra	28.98	736.0	29.53	750.0	89.2	31.8	68	e.	4.0	1.8			8		e.	0	0	d. clouds	
Nagpur	28.55	725.1	29.58	751.4	80.4	26.9	85	calm	1.0	0.4			9		w.	0.20	5.1	d. clouds	
Jubbulpore	28.22	716.9	29.58	751.2	76.6	24.8	95	sse.	4.0	1.8			10		se.	1.10	27.9	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.16	740.8	29.53	750.1	89.1	31.7	69	calm	0	0			3		ese.	0	0	gloomy	
Allahabad	29.22	742.1	29.52	749.9	83.5	28.6	91	calm	0	0			7			0	0	d. clouds	
Patna	29.38	746.2	29.56	750.8	88.4	31.3	73	ene.	5.8	2.6			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.56	700.1	29.55	750.6	79.5	26.4	80	ese.	13.1	5.8			6		ene.	0	0	d. clouds	
Cuttack	29.48	748.7	29.56	750.7	86.1	30.1	76	ssw.	2.0	0.9			8			0	0	d. clouds	
Calcutta, Alipore	29.54	750.4	29.56	750.9	82.7	28.2	87	se.	2.5	1.1			9			0.20	5.1	d. clouds	
Dhubri	29.49	748.9	29.60	751.9	83.4	28.6	84	calm	1.0	0.4			8	nne.		0	0	d. clouds	
Chittagong	29.52	749 9	29.61	752.2	81.7	27.6	88	ssw.	2.3	1.0			6			0	0	d. clouds	
Sibsagar	29.27	743.5	29.60	751.8	88.5	31.4	77	sw.	2.0	0.9			4			0	0	d. clouds	
Jeypore	28.12	714.3	29.53	750.0	87.7	30.9	71	sw.	5.0	2.2			7		ne	0.03	0.8	d. clouds	
Zanzibar	29.99	761.7			82.2	27.9	52	sse.	3.9	1.7			8		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.44	747.8	29.84	757.9	76.3	24.6	59	calm	0	0			9			0.035	0.9		Prof. Giovanni Olodig.
Milan	29.29	744 0	29.79	756.7	79.5	26.4	47	ssw.	7.4	3.3			9	wsw.		0.024	0.6		Prof. G.V.Schiapparelli
Padua	29.68	753.8	29.78	756.5	77.0	25.0	66	n.	3.8	1.7			8			0.524	13.3		Prof. Dott. Lorenzoni.
Moncalieri	28.87	733.4	29.75	755.7	73.0	22.8	71	nw.	2.5	1.1			9			0.260	6.6		Prof. F. F. Denza.
Genoa	29.67	753.5	29.85	758.2	68.0	20.0	77	se.	3.8	1.7			10	sw.		0.504	12.8		Prof. G. M. Garibaldi.
Mondovi	27.91	709.0	29.78	756.5	67.3	19.6	89	nw.			2		10			0.224	5.7		Prof. D. C. Bruno.
Pesaro	29.75	755.7	29.80	756.9	84.4	29.1	39	sw.	6.3	2.8			2	s.		0	0		Prof. Luigi Guidi.
Florence	29.56	750.8	29.81	757.1	81.1	27.3	47	e.			2		7	s.		0	0		Prof. Costantino Pittei.
Leghorn	29.68	753.9	29.76	756.0	79.2	26.2	70	sw.	3.1	1.4			5			0	0		Prof. P. Monte.
Rome	29.70	754.4	29.87	758.7	82.6	28.1	43	wsw.	12.5	5.6			4			0	0		Prof. P. Tacchini.
Lecce	29.66	753.3	29.90	759.4	82.6	28.1	38	sse.	15.2	6.7			2	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.04	737.6	29.89	759 3	84.2	29.0	65	nw.	3.1	1.4			3	w.		0	0		Prof. D. Conti.
Cagliari	29.61	752.2	29.80	757.0	82.2	27.9	71	se.			4		6	w.		0	0		Prof. A. Pacinotti.
Palermo	29.67	753.5	29.91	759.6	79.5	26.4	64	ne.	1.3	0.6			1			0	0		Prof. G. Caccatore.
Syracuse	29.87	758 6	29.91	759.7	83.7	28.7	57	ssw.	21.0	9.4			5	wsw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.41	746.9	29.91	759.6	80.4	26.9	60	ssw.	2.5	1.1			3	nw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.02	762.6	30.06	763.6	68.9	20.5	94	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	29.94	760.5	29.98	761.5	73.7	23.2	67	wsw.	13.2	5.9		0	2 s			0	0	fair	K. Ogawa.
Hamamatsu	30.13	765 3	30.16	766.0	73.3	22.9	92	calm			0	0	5 s		s	0	0	fair	Sekigawa & Yamazaki.
Kagoshima	30.08	764.1	30.10	764.4	71.4	21.9	85	calm			0	0	0			0	0	clear	G. Miyanonaza.
Kanazawa	29.97	761.3	30.07	763.8	72.7	22.6	81	se.	3.2	1.4		0	3 s			0	0	fair	S. Endo.
Kioto	29.94	760.6	30.12	765.0	72.0	22.2	79	wnw.	2.2	1.0		0	2 s			0	0	clear	M. Tojima.
Kochi	30.12	765.1	30.14	765.6	76.9	24.9	85	e	8.3	3.7			9 s		s.	0.22	5.6	overcast	K. Kusunose.
Miasaka	30.08	764.1	30.11	764.8	73.2	22.9	89	ese.			1	0	0			0.028	0.7	clear	K. Masusaki
Miyako	29.95	760.6	30.06	763.4	66.0	18.9	94	s.	0.9	0.4			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.89	759.2	30.09	764.3	74 6	23.7	84	calm	0	0		0	2 s			0.110	2.8	clear	S. Takehayasu.
Niigata	30.02	762.5	30.06	763.5	73.4	23.0	82	se.	1.9	0.8			10ks;s			0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.06	763.4	30.07	763.8	70.3	21.3	96	s.	2.9	1.3			10 ks			0	0	covered	Yoslino & Midzushina.
Numazu	30.11	764.8	30.14	765.6	76.1	24.5	83	sw.			4	0	9 s			0	0	cloudy	R. Kaneda.
Osaka	30.09	764.3	30.11	764.7	76.0	24.4	72	sw.	1.9	0.8		0	0			0	0	clear	H. Omura.
Sakai	30.04	762.9	30.05	763.1	76.3	24.6	83	ene.			2	0	0			0	0	clear	Yamawchi&Sakamoto.
Shimonoseki	29.93	760.3	30.08	764.0	73.9	23.3	84	calm			0	0	2 s		w.	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.05	763 3	30.13	765.2	69.3	20.7	93	se.	3.0	1.3			10 s			0	0	covered	The Staff.
Wakayama	30.06	763.5	30.11	764.8	77.8	25.4	73	s.	5.8	2.6		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	71.6	22.0	67	w.	6.5	2.9			9 ks;kn			0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.11	764.8	52.7	11.5	84	nw.	0.9	0.4		8 c	1 ks	nw.		0	0	cloudy	Prof. M. Leal.
Mazatlan																			F. Quijano, C. E.
Sub-series.																			
Altata					83	28.3	88	se.			1		10 n		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.60	751.9	29.60	751.9	64.8	18.2		w.			4					0	0		
Groningen	29.43	747.5	29.48	748.9	62.6	17.0		w.			3					0.252	6.4		
Helder	29.53	750.1	29.53	750.1	60.4	15.8		wnw.			4					0.016	0.4		
Hellevoetsluis	29.57	751.0	29.57	751.0	63.9	17.7	67	w.			4					0.063	1.6		
Utrecht	29.54	750.3	29.59	751.5	63.1	17.3	79	w.			4		8			0.185	4.7	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.7			80.1	26.7	80	ne.	0	0			6			0	0		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.41	746 9	29.47	748.5	60.1	15.6	62	ssw.	9.8	4.4			6			0.402	10.2		
Brono	29.37	746.0	29.41	747.0	56.8	13.8	76	sw.			6		5			0	0		
Christiania	29.32	744.6	29.46	748.2	57.4	14.1	70	calm	0	0			10			0.031	0.8		
Gjesvær	29.50	749.4	29.53	750.0	47.1	8.4		ne.			4		10						
Lodingen	29.40	746.7	29.45	747.9	54.1	12.3	73	e.			4		5			0.055	1.4		
PORTUGUESE.																			
Angra, Azores					71.1	21.7	87	nne.	13.6	6.1			5			0.142	3.6		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.09	764.3	30.18	766.5	75.4	24.1	67	sw.	3.1	1.4			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.6	30.00	761.9	67.6	19.8	73	sw.	17.4	7.8			8			0	0		The Staff.
Ponta Delgada, Azores	30.08	763.9	30.15	765.7	77.4	25.2	83	wnw.	16.8	7.5			3	nne.		0	0		
Saint Paul de Loando	29.77	756.1	29.97	761.3	71.2	21.8	80	nw.			2		0			0	0		
San Salvador, Congo	28.11	714.0	29.95	760.6	77.9	25.5	69	wnw.			2		2	e.					
Serra da Estrella	25.21	640 4	29.90	759.4	51.4	10.8	68	wsw.	26.2	11.7			2			0.354	9.0		
RUSSIAN.																			
Akmolinski	28.80	731.5	29.83	757.7	70.5	21.4	32	se.	9	4		7 ck	0			0	0		Major K. Lasarew.
Archangel	29.43	747.5	29.45	748.0	54.1	12.3	87	w.	9	4			10			0.047	1.2	raining	Capt. Seellwerstow
Ashurada	29.99	761.8	29.90	759 4	79.9	26.6	78	wsw.	11	5			10 kn			0.445	11.3		
Astrakhan	30.01	762.2	29.94	760.4	77.0	25.0	27	wnw.	7	3		cs	1 k			0	0		Capt. Wisganow.
Baku	29.99	761.7	29.94	760.5	80.4	26.9	47	nne	13	6		0	3 ks			0	0		
Barnaul	29.53	750.1	30.02	762.5	61.5	16.4	43	ne.	9	4			0			0	0		Meteorological Obs'y
Bielosersk	29.24	742.6	29.69	754.2	58.1	14.5	74	wsw.	9	4			9 kn			0.059	1.5		
Dorpat	29.53	750.1	29.77	756.1	61.5	16.4	79	sw.	7	3			10 s			0	0		Observatory.
Ekaterinburg	28.74	730.0	29.07	753.6	63.9	17.7	75	se.	9	4			10 n			0.217	5.5		Meteorological Obs'y.
Elisawetgrad	29.64	752.6	30.07	763.8	75.7	24.3	31	nw.	4	2		0	0			0	0		
Irkutsk	28 43	722.0	30.07	763 7	49.1	9.4	76	calm			0		2			inap.	inap.		
Kasalinsk					87.4	30.8	32	n.	9	4		1 c;ck	0						
Kasan	29.28	743.8	29.54	750.4	60.4	15.8	66	wsw.	20	9			9 kn			0	0		Observatory.
Kem	29.40	746 7	29.45	748.0	60.6	15.8	52	w	13	6		0	7 k			0	0		
Kertch	30.05	763.2	30.07	763.8	74.3	23.5	43	calm	0	0		0	0			0	0		Lagorio & Sastyres.
Kieff	29.38	746.2	29.99	761 7	71.8	22.1	50	s.	4	2		c	1 ks			0	0		Observatory.
Koslov	29.35	745.4	29.84	757.9	63.9	17.7	59	wnw.	13	6			9 ks			0	0		
Liban	29.66	753 3	29.68	753.9	69.1	20.6	71	s.			5		4			0	0		E. Quaas.
Lugan	29.76	755.8	29.95	760.8	73.9	23.3	30	wsw.	18	8			6			0	0		Meteorological Obs'y.
Moscow	29.35	745 5	29.81	757.2	63.1	17.3	51	n.	2	1		0	7 ks			0	0		Meteorological Obs'y
Nikolaiev	29.96	761.0	30.03	762.8	77.5	25.3	45	sse.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					51.3	10.7	72	calm	0	0		0	5 k						Iwanow.
Pekin, China	29.73	755.1	29.87	758.7	73.6	23.1	76	s.	2.2	1.0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.47	748.6	29.80	756 9	89.6	32.0	26	calm	0	0		5 cs	0			0	0		
Petrozavodsk	29.80?	756.9?	29.99?	761.8?	59.0	15.0	68	w.	16	7		0	8 ks			0.020	0.5		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mts. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Pinsk	29.43	747.5	29.91	759.6	74.3	23.5	50	s.	9	4		4 c	0			0	0	light clouds	
Poti	29.96	760.9	29.99	761.7	79.7	26.5	64	nw	4	2		0	2 k			2.114	53.7		
St. Petersburg	29.69	754.2	29.72	754.8	64.4	18.0	57	w.	11	5		0	5 kn			0	0		Central Physical Obs'y.
Samarkand	27.44	696.9	29.74	755.5	86.0	30.0	26	e.	7.8	3.5		0	0			0	0		
Semipalatinsk	29.32	744.8	29.96	761.0	66.7	19.3	35	n.	13	6			1			0	0		Major Lasarew
Sevastopol	29.87	758.6	30.07	763.8	77.5	25.3	57	wnw.	16	7		0	1 k			0	0		
Staroi Bykhov	29.39	746.6	29.93	760.2	68.7	20.4	71	sw.	7	3		6 c	0			0	0	light clouds	
Tashkend Laboratory	28.19	715.9	29.73	755.2	88.2	31.2	34	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.55	725.2	29.89	759.2	82.4	28.0	36	nw.	9	4		0	1 ks			0	0		Physical Observatory.
Vernoe	27.30	693.5	29.70	754.3	71.2	21.8	55	calm	0	0		0	2 k			0	0		
Viatka	28.92	734.5	29.54	750.2	53.1	11.7	84	see.	2	1			10			0.028	0.7		
Warsaw	29.33	744.9	29.72	755.0	78.1	25.6	45	se.	16	7		6 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	29.97	761.2	30.26	768.5	48.9	9.4	75	nw.	2	1			7			0	0		M. O. Marks.
SCOTTISH.																			
North Unst																			Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.68	753.8	29.78	756.4	74.5	23.6	76	ese.	5.4	2.4		0	7			0.843	21.4		Antonio Molins.
Bilbao, Met. Obs'y	29.67	753.5	29.72	755.0	82.4	28.0	36	s.	4.7	2.1		3	2	se.		0.039	1.0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.90	683.2	29.77	756.1	66.2	19.0	56	sw.	7.4	3.3			8			0.035	0.9	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.67	702.8	29.79	756.6	73.4	23.0	38	sw.	16.6	7.4		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.72	754.8	29.84	757.9	90.3	32.4	42	nw.	3.8	1.7		3	2	w.		0	0	clouds.	Olayo Diaz, Director.
Oviedo	28.97	735.9	29.73	755.2	61.7	16.5	80	se.	17.2	7.7		3 s	4 n	nw.	ne.	0	0		Prof. L. G. Frades.
Santiago, Met. Obs'y	28.78	731.1	29.65	753.2	63.0	17.2	78	ssw.	15.4	6.9			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.6	76.2	24.6	88	se.	0.7	0.3		ck;cs	1 ks	w.		0.12	3.1	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	758.9	29.93	760.3	81.8	27.7	77	sw.	8.8	3.9		0	8 ks			0.039	1.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.7	30.05	763.1	73.2	22.9	59	w.	11.7	5.3		5	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.93	760.1	30.02	762.4	81.7	27.6	81	calm	0	0		4 cs	2 k	se.	se.	0	0	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.47	748.5	29.51	749.5	57.9	14.4	74	s.			2		5			0	0		
Umea	29.41	746.9	29.46	748.2	59.7	15.4	81	s			2		5			0.980	24.9		
Hernosand	29.41	746.9	29.46	748.2	64.8	18.2	60	wsw.			4		5			0	0		
Stockholm	29.40	746.7	29.58	751.2	62.6	17.0	68	ssw.			2		10			0	0		
Wisby	29.52	749.7	29.58	751.2	70.9	21.6	64	sse.			4		3			0	0		
Sub-series.																			
Upsala	29.46	748.3	29.55	750.5	59.7	15.4	70	ssw.	10.3	4.6			10		e/	0.370	9.4	raining.	H. H. Hildebrandesson.
SWISS.																			
Geneva	28.37	720.6	29.76	755.8	68.7	20.4	59	s.			2		10			0.228	5.8	covered	The Observatory.
TURKISH.																			
Constantinople			30.00	762.1	79.5	26.4	58	ne.	19	8.5			3		ne.	0	0		The Observatory.
Valona			30.07?	763.7?	83.3	28.5		s.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.3	85.6	29.8	61	nw.			1		1 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.19	766.8	30.27	768.8	64	17.8	68	n.	3	1.3		0	hz.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.10	764.5	65	18.3	84	s	4	1.8		4 cs	6 ks	sw.	sw.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.93	760.2	50	10.0	74	e.	8	3.6		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.40	695.9	30.25	768.3	48	8.9	93	ne.	19	8.5			10 n		ne.	0.43	10.9	light rain	B. O. Lenoir.
Atlanta, Georgia	29.08	738.6	30.25	768.3	63.0	17.2	75	e.	6	2.7		hz.	sk.			0	0	dense smoke.	Edward A. Beals.
Atlantic City, New Jersey	30.19	766.8	30.20	767.1	64	17.8	84	n.	6	2.7		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.07	763.8	30.26	768.6	64.0	17.8	75	calm	0	0		1 k	0			0	0	clear	D. J. Young.
Baltimore, Maryland	30.19	766.8	30.24	768.1	63	17.2	78	n.	5	2.2		0	hz.			0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.18	766.6	30.20	767.1	65.5	18.6	90	ne.	7	3.1			fg.			0	0	dense fog	G. A. Hill.
Behring Sea	29.81	757.2	29.83	757.7	48.0	8.9	96	s.	12	5.4			10 n			0	0	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.47	723.1	30.06	763.5	61.0	16.1	72	n.	7	3.1			10 s		nw.	0.94	23.9	cloudy	A. Pritchard.
Benton, Fort, Montana	27.37	695.2	30.21	767.3	50	10.0	100	n.	4	1.8			10 n			0.60	15.2	rainy	Thomas Morgan.
Bismarck, Dakota	28.27	718.0	30.07	763.8	56	13.3	69	ne.	3	1.3		10 k	0	w.		0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.20	767.1	30.22	767.6	61	16.1	87	ne.	14	6.3		0	8 ks		ne.	0	0	cloudy.	J. T. Eiker.
Boise City, Idaho	27.36	694.9	30.13	765.3	50	10.0		n.	12	5.4		0	sk.			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.08	764.0	30.23	767.8	62.0	16.7	84	s.	1	0.4		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.94	760.5	71.0	21.7	94	ne.	4	1.8			10 s		s.	0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.52	749.8	30.25	768.3	60	15.6	78	se.	4	1.8		0	sk.			0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	28.14	714.7	30.12	765.0	49	9.4	86	ne.	4	1.8			10s;sk			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.79	756.7	30.19	766.8	65.6	18.7	80	s.	3	1.3		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter																			O. D. Stewart.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	69.0	20.6	76	n.	20	8.9		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.18	766.6	30.21	767.3	66.0	18.9	78	ne.	4	1.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.37	746.0	30.05	763.3	51	10.6	80	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	69.5	20.8	77	n.	10	4.5		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.14	765.5	30.19	766.8	67.0	19.4	78	n.	7	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.24	768.1	65.0	18.3	63	ne.	4	1.8		0	fg			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.25	768.3	60.0	15.6	90	ne.	1	0.4		0	fg.			0	0	clear	B. L. Gouldin.
Cheyenne, Wyoming	24.20	614.7	30.06	763.5	53.9	12.2	69	e.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.43	747.5	30.12	765.0	68.0	20.0	66	s.	9	4.0		8 c;cs	2 ks			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	64	17.8	90	n.	12	5.4		0	hz.			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.60	751.8	30.25	768.3	62.0	16.7	72	e.	1	0.4		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.52	749.8	30.24	768.1	57.8	14.3	74	se.	6	2.7		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.40	746.7	30.24	768.1	57	13.9	74	ne.	3	1.3		0	fg.			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.16	715.3	30.06	763.5	68.6	20.3	66	s.	2	0.9		0	hz.			0	0	clear	J. McGlone.
Custer, Fort, M. T.	27.00	685.8	30.12	765.0	57	13.9	60	ne.	8	3.6			10 s			0.05	1.3	cloudy	T. Gibson.
Davenport, Iowa	29.40	746.7	30.05	763.3	63	20.0	66	sw.	7	3.1		0	6 ks		w.	inap.	inap.	fair	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	30.00	762.0	60	15.6	84	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty.	28.40	721.3	30.15	765.8	54	12.2	64	sw.	5	2.2			10 s			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.45	646.4	30.01	762.2	56	13.3	90	calm	0	0			10 s		se.	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del	30.18	766.6	30.20	767.1	67	19.4	90	ne.	18	8.0		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.87	631.7	29.98	761.5	60.6	15.9	64	s.	8	3.6		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.95	760.7	70	21.1	71	sw.	12	5.4		3 ck	3 s	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.53	750.0	30.22	767.6	65.0	18.3	90	s.	4	1.8		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.42	696.5	29.97	761.2	66	18.9	84	s.	11	4.9		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.32	744.7	30.02	762.5	66.3	19.1	68	s.	8	3.6		0	1 s			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.10	739.1	29.84	757.9	66	18.9	93	nw.	5	2.2		8 cs	1 s	sw.		0.28	7.1	cloudy	N. B. Conger.
Eastport, Maine	30.21	767.3	30.28	769.1	56.0	13.3	80	calm	0	0		0	fg;s k			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	30.00	762.0	61	16.1	62	se.	4	1.8		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.39	670.3	30.04	763.0	64.0	17.8	50	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.54	750.3	30.24	768.1	61	16.1	78	s.	7	3.1		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.29	744.0	29.95	760.7	64.0	17.8	93	s.	14	6.3			10 n		s	0.16	4.1	light rain	George Heathcote.
Galveston, Texas	30.02	762.5	30.06	763.5	82	27.8	56	se.	4	1.8		0	5 ks		se.	0.29	7.4	fair	E. O'C. Machnerney.
Grand Haven, Michigan	29.46	748.3	30.12	765.0	69.0	20.6	66	s.	16	7.2			10 s		w.	0.02	0.5	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.28	642.1	29.88	758.9	68.2	20.1	38	ne.	7	3.1		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.12	765.0	30.14	765.5	71.0	21.7	71	ne.	25	11.2		3 c	hz.	ne.		0	0	clear	R. M. Crawford.
Helena, Montana	25.92	658.4	30.09	764.3	52	11.1	80	sw.	2	0.9			10 n		s.	blank	blank	light rain	I. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.59	726.2	29.97	761.2	64.2	17.9	87	n.	12	5.4			10 s			0.38	9.1	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.42	747.3	30.20	767.1	65.0	18.3	63	se.	1	0.4		7 ck	3 s	w.		0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.01	762.2	30.04	763.0	80.0	26.7	69	se.	4	1.8		0	0			0.01	0.3	clear	I. A. Reed.
Jacksonville Florida	30.11	764.8	30.15	765 8	69.0	20.6	78	ne.	8	3.6		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.41	747.0	30.06	763.5	68.0	20.0	66	s.	4	1.8		1 k	0	w.		0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	76.0	24.4	85	e.	5	2.2			10 s			1.10	27.9	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	71	21.7	71	ne.	32	14.3		0	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.23	742.4	30.25	768.3	58.5	14.7	84	calm	0	0		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	29.93	760.2	70	21.1	71	s.	8	3.6		2 c	3 s	w.		0.02	0.5	fair	S. C. Emery.
Leavenworth, Kansas	29.16	740.7	30.04	763.0	67	19.4	78	s.	6	2.7		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.35	745.5	30.18	766.6	54.0	12.2	44	se.	1	0.4			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.81	757.2	30.12	765.0	65	18.3	84	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	64	17.8	84	ne.	2	0.9		2 c	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.64	752.8	30.19	766.8	62	16.7	84	ne.	2	0.9		9 k	0			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.56	750.8	30.24	768.1	59	15.0	75	calm	0	0		0	0			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.38	746.2	30.03	762.7	69.0	20.6	77	sw.	12	5.4			10 s		sw.	0	0	threatening.	D. B. Notson.
Macon, Fort, North Carolina	30.15	765.8	30.16	766 1	67.0	19.4	78	nw.	19	8.5		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.73	653.5	30.13	765.3	44	6.7	100	e.	8	3.6			10 s		e.	0.08	2.0	cloudy	F. Burke.
Marquette, Michigan	29.17	740.9	29.89	759.2	67.0	19.4	90	sw.	12	5.4			10 n		sw.	0.12	3.0	light rain	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.14	765.5	66	18.9	68	nw.	2	0.9		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.35	745.5	30.09	764.3	68	20.0	70	sw.	12	5.4		7ck;os	0	nw.		0	0	fair	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.10	764.5	30.14	765 5	74	23.3	85	ne.	5	2.2		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.96	761.0	30.19	766.8	72	22.2	66	calm	0	0		0	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.00	736.6	29.99	761.7	56	13.3	74	n.	12	5.4		0	4 s		n.	1.00	25.4	fair	H. Bessant.
Mt. Washington, N. H.	24.14	613.1	30.29	769.4	45.0	7.2	93	e.	2	0.9		0	2 k;sk			inap.	inap.	clear	S. W. Beall.
Nashville, Tennessee	29.62	752.3	30.19	766.8	59.0	15.0	87	ne.	1	0.4		4 c	0	n.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.22	767.6	57	13.9	86	ne.	6	2.7		0	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.21	767.3	30.26	768.6	60	15.6	81	calm	0	0		3 c	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	78.0	25.6	85	ne.	2	0.9		0	hz.			0	0	clear	M. Herman.
New York, New York	30.05	763.3	30.22	767.6	65	18.3	84	n.	1	0.4		0	fg.			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.15	765.8	30.18	766.6	70.0	21.1	90	n.	4	1.8		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.08	687.8	29.96	761.0	68.6	20.3	80	w.	2	0.9		0	8 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y†	30.14	765.5	30.18	766.6	47.0	8.3	86	s.	5	2.2			sk.			0	0	dense smoke	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.95	760.7	70.6	21.4	82	s.	4	1.8		2 c	2 k		s.	0	0	fair	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.96	761.0	30.28	769.1	57.5	14.2	90	s.	5	2.2		0	hz.			0	0	clear	J. G. Linsley
Palestine, Texas	29.59	751.6	30.14	765.5	69.0	20.6	78	e.	2	0.9		sk.	sk.			0	0	dense smoke	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	74.3	23.5	87	ne.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.14	765.5	30.24	768.1	64	17.8	90	n.	4	1.8		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.14	460.7	30.12	765.0	34	1.1	85	sw.	20	8.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.49	749.0	30.28	769.1	54.0	12.2	93	n.	1	0.4			fg.			0	0	dense fog	G. C. Schaeffer.
Poplar River, Montana					50	10.0	72	s.			1		10 ks			0	0	cloudy	M. J. Wright, jr.
Port Huron, Michigan	29.50	749.3	30.17	766.3	63.2	17.3	84	s.	4	1.8		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.19	766.8	30.24	768.1	59	15.0	70	ne	4	1.8		0	sk.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.10	764.5	30.17	766.3	51.0	10.6	80	nw.	2	0.9		0	sk.			0	0	light smoke.	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24 87	631.7	29.97	761.2	55.5	13.1	72	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.21	767.3	30.24	768.1	60	15.6	90	e.	2	0.9		5 c	fg.	sw.	e.	0	0	fair	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.70	754.4	30.04	763.0	62	16.7	47	n.	4	1.8		0	hz.			inap.	inap.	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.66	753.4	30.21	767.3	40.8	4.9	84	calm	0	0			sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.91	759.7	29.98	761.5	55.0	12.8	77	nw.	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.57	751.1	30.16	766.1	63.2	17.3	83	s.	11	4.9		1 ck	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.80	756.9	29.83	757.7	56	13.3	86	s	9	4.0			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.06	738.1	29.91	759.7	69.0	20.6	90	sw.	4	1.8			10 n		sw.	0.48	12.2	thnd'r storm	P. F Lyons.
St. Vincent, Minnesota	29.15	740.4	30.02	762.5	46	7.8	93	nw.	5	2.2		0	0			0.14	3.6	clear	C. B. Dilley
Salt Lake City, Utah	25.70	652.8	29.95	760.7	64.5	18.1	52	calm	0	0		3 k	0	sw.		0.46	11.7	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.81	757.2	29.88	758.9	65.0	18.3	93	ne.	3	1.3		0	fg.			0	0	clear	F. R. Day.
Sanford, Florida	30.02	762.5	30.07	763.8	74.0	23.3	82	n.	9	4.0			10 s		ne.	0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.55	750.0	30.22	767.6	63.5	17.5	70	sw.	11	4.9		1 c	fg.			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.19	766.8	30.22	767.6	65.0	18.3	78	e.	8	3.6		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	53.5	11.9	90	nw.	2	0.9		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.12	765.0	30.21	767.3	67	19.4	89	n.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26 46	672.1	30.07	763.8	47	8.3	93	nw.	8	3.6			10 n		w.	0.56	14.2	heavy rain	S. W. Morrison.
Shreveport, Louisiana	29.87	758.7	30.11	764.8	65.8	18.8	73	se.	1	0.4		0	hz.			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.86	733.0	30.08	764.0	71	21.7	62	calm	0	0		0	sk.			0	0	clear	W. M. Mattingly
Sitka, Alaska	30.08	764.0	30.14	765.5	49	9.4	86	e.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.66	753.4	30.12	765.0	65.2	18.4	73	e.	3	1.3		0	0			0	0	clear	J. B. Campbell
Smithville North Carolina	30.15	765.8	30.19	766.8	62.0	16.7	78	n.	6	2.7		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.09	764 3	48.8	9.3	52	sw.	1	0.4		0	sk.			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.47	748.5	30.14	765.5	63	17.2	70	s.	10	4.5		0	hz.			0	0	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.07	687.6	30.03	762.7	66	18.9	60	s.	8	3.6		0	0			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					63	17.2	68	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.51	749.5	30.19	766.8	65	18.3	68	s.	4	1 8		1 c;hz	sk.			0	0	dense smoke	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskha, Alaska	29.40	746.7	29.43	747.5	53	11.7	93	se.	12	5.4			10 n			1.54	39.1	light rain	Samuel Applegate.
Verde, Fort, Arizona					64	17.8	36	se.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	71.4	21.9	67	ne.	1	0.4		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.14	765.5	30.25	768.3	61.1	16.2	82	n.	1	0.4		0	sk.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.13	663.7	29.95	760.7	61.9	16.6	60	w.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.14	765.5	30.19	766.8	64.0	17.8	73	n.	4	1.8		hz.	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.65	727.7	29.94	760.5	70.4	21.3	92	w.	6	2.7			10 k		w.	inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.63	752.0	29.77	756.1	78.2	25.7	74	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			3		1 ks		nw.	0	0	foggy	W. H. Jackson.
Bogota, U. S. C.	22.07	560.6			53.6	12.0	79	e.	2	1		2 ck;k	5s;ks	nw.	nw.	0.488	12.4		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	80.0	26.7	81	n.	1	0.4		8 cs	2 s	e.	e.	0.45	11.4	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	82	se.			2	4 c	0			0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.30	745.7	29.92	760.0	75	23.9	89	ne.			1		10 ks		s.	0.94	23.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	90	s.			1	2 ck		se.		0.04	1.0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	30 03	762.7	30.09	764.3	48.0	8.9	92	n.	9	4.0		3 k	1 s	n.	n.	0	0	fair	Fortescue & Wood.

†Observation 34 minutes late.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 36° 56′, E. 21° 06′	30.01	762.2	83	28.3	75	wsw.			1		0					sm'h		blue sky.
H. M. S. Coquette, N. 39° 38′, E. 19° 56′	29.97	761.2	80	26.7		ese.			1		5	calm				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.07	763.8	79.5	26.4	78	sse.			3		7	sse.						d. clouds.
H. M. S. Iris, Suez Canal, Egypt	29.79	756.7	82	27.8	91	nnw.			3		0							blue sky.
H. M. S. Tenedos, St. Johns, N. F.	30.25?	768.3?	54	12.2	80	nnw.			1		9	nnw.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.19	766.8	60	15.6	82	calm	0	0			0			0	0			clear.
U. S. S. Alliance, N. 47° 09′, W. 61° 40′	30.26	768.6	62	16.7	94	wsw.			2		0			0	0	sm'h		clear.
U. S. S. Galena, Hampton roads, Va	30.22	767.6	71	21.7	90	nnw.			2		0					sm'h		clear.
U. S. S. Jamestown, Gibraltar, Mediterranean	30.00	762.0	74	23.3	76	w.			4		5		w.			sm'h		fair.
U. S. S. Kearsarge, N. 40° 10′, W. 44° 02′	30.35?	770.9?	75	23.9	77	se.			2		10		calm			mod.	n.	cloudy.
U. S. S. Lancaster, Villefranche, France	29.90?	759.4?	73	22.8	90	se.			2		10		calm			sm'h		raining.
U. S. S. Portsmouth, Portsmouth, N. H	30.25	768.3	55	12.8	100	calm			0		2							hazy.
U. S. S. Powhatan, New York Bay, N.Y	30.22	767.6	69	20.6	85	ne.			2		0							foggy.
U. S. S. Quinnebaug, Southampton, Eng	29.72?	754.9?	61	16.1	82	ssw.			2		10		ssw.			sm'h		cloudy
U. S. S. Saratoga, New London, Conn	30.25	768.3	59	15.0	88	nne.			2		8?		nne.	0	0	sm'h	nne.	clear.
U. S. S. Swatara, Halifax, N. S.			58	14.4	82	n.			1		10		n.	light	light	sm'h		overcast.
U. S. S. Vandalia, Montreal, Canada	30.22	767.6	63	17.2	94	wnw.			1		0							clear.
U. S. S. Yantic, N. 70° 35′ W. 55° 01	29.89	759.2	40	4.4	82	ne.			3		2					sm'h		clear.
S. S. British Crown, N. 51° 26′. W. 20° 00′ †	29.17	740.9	57	13.9		n.			8		5		n.	8 h'r	8 h'r	h'vy	n.	
S. S. British Prince, N. 47° 13′ W. 37° 32′*†	30.14?	765.5?	59	15.0		nnw.			3		8		nw.	0	0	hv'y	ne	cloudy.
S. S. Ohio, N. 51° 24′ W. 11° 20′ †	28.58	725.9	59	15.0	94	se.			6		8		ese.	16 h'r	16 h'r	cross	ese.	dense fog.
S. S. Circassian, N. 56° 01′, W. 12° 10′	29.29	744.0	56	13.3	94	e.			3		5		e.			4	w.	d. clouds.
S. S. Grecian, Montreal, Canada	30.20	767.1	69	20.6	90	sw.			1		0			0	0			hazy.
S. S. Nova Scotian, N. 52° 23′ W. 25° 44′	29.65	753.1	54	12.2		nw.			6		10		nw.			high	nnw.	cloudy.
S. S. Prussian, N. 45° 51′, W. 53° 04′	29.97?	761.2?	55	12.8		nne.			4		10		nnw.	7 h'r	7 h'r	cross	w;n.	cloudy
S. S. Scandinavian, Charleston, Mass	30.23	767.8	58	14.4		var.												misty.
S. S. Jason, N. 45° 57′ W. 27° 54′			57.2	14.0		var.			3–6		9 n					5–6	ne.	raining.
S. S. Alvo, N. 38° 00′, W. 74° 00′*	30.13?	765.3?	67	19.4		ne			4		5		ne.	0	0	mod	nne.	fine.
S. S. Andes, N. 11° 40′, W. 82° 30′*†	30.02?	762.5?				nne.			1		8		ne.	0	0	sm'h		cloudy.
S. S. Avila, N. 22° 35′ W. 66° 48′*†	30.10	764.5	81	27.2		se.			1		5		se.	rain	rain	r'gh	s.	
S. S. Australia, Malaga, Spain						calm			0		0			0	0			hazy.
S. S. Dorian, Glasgow, Scotland	29.31	744.5				var.					10			rain	rain			threatening.
S. S. Furnesia, New York, N. Y †	30.16	766.1	64	17.8	89	ene.			3		10?		ene.	0	0	mod	ne.	clear.
S. S. Galatia, N. 33° 22′, E 22° 49′*†	30.02?	762.5?	80	26.7	87	nw.			2		0			0	0	sm'h		clear.
S. S. Llandaff City, N. 40° 18′ W. 70° 20′ †	30.11?	764.8?	64	17.8		nne.			0		8		ne.	0	0	high	ne.	cloudy.
S. S. Cephalonia, N. 48° 56′, W. 26° 39′	29.88	758.9				wnw.			8		4		nw.	8 h'r	8 h'r	r'gh	wnw.	squally.
S. S. Bothnia, N. 43° 24′, W 46° 42′	30.18	760.6	67	19.4	95	ssw.			3		10		sw.	2 h'r	2 h'r	sm'h	n.	showery.
S. S. Pavonia, Mersey river, Eng*	29.37	746.0	61	16.1	88	se.			3		9		se.	0	0			cloudy
S. S. Scythia, N. 41° 43′, W. 56° 55′	30.23	767.8	67	19.4	95	nne.			3		8?		nne.	0	0	mod.	nne.	clear?
S. S. Samaria, N. 51° 20′ W. 18° 30′			53	11.7		nnw.			9		8		nnw.	10 h'r	10 h'r	h'vy	nnw.	cloudy.
S. S. Ville de Bordeaux, N. 33° 40′, W. 41° 45′ *†	30.35?	770.9?	79	26.1		e.			2		2		ese.	sh'rs	sh'rs	long	wnw.	clear.
S. S. Arizona, N. 43° 06′, W. 60° 31′	30.20?	767.1?	55	12.8		ne			2		10		ene.			sm'h		overcast.
S. S. Bohemia, N. 49° 29′, W. 19° 36′						var.			5–10		10		nnw.	h'vy	hv'y	h'vy	nnw.	stormy.
S. S. Gellert, N. 42° 57′, W. 52° 07′	30.16	766.1	67	19.4	95	wsw.			3		2		wnw.	0	0	mod.	w.	clear.
S. S. Silesia, N. 40° 27′, E. 73° 45′	30.26	768.6	62.5	16.9		ne.			3		6		ne.	0	0	sm'h	e.	fair
S. S. Westphalia, N. 49° 46′, W. 3° 43′	29.18?	741.2?	60	15.6	100	sw.			5		7		w.	0	0	3	s.	cloudy.
S. S. Virginian, N. 40° 40′, W. 63° 04′*	30.14	765.5	69	20.6		ene.			6		10		ene.	3 h'r	3 h'r	mod.	ene.	raining.
S. S. Archimedes, N. 27° 25′, W. 64° 14′	30.07	763.8				e.			2		5		ne.	0	0	light	e;nw.	fine.
S. S. Chalmette, New York, N. Y †	30.26	768.6	70	21.1		n.			3		6		ne.	0	0			fair.
S. S. Alleghany, Boston, Mass. †	30.27	768.8	62	16.7		calm			0		0			0	0			hazy.
S. S. Archimede, Palermo, Sicily†	29.99	761.7	84	28.9		ne.			3		1		ne.	0	0			clear.
S. S. City of Merida, N. 23° 09′, W. 82° 22′*†	30.08	764.0	81	27.2		ne.			1		2?		ne.	1 h'r	1 h'r	light	ne.	cloudy?
S. S. Cienfuegos, Nassau, Bahamas			85	29.4		nne.			2		5			3 h'r	3 h'r	hv'y	nne.	fine.
S. S. Canada, N. 41° 09′, W. 60° 45 †	30.43?	772.9?	64	17.8		ene.			5		10		ene.	12 h'r	12 h'r	long	se.	rainy.
S. S. Denmark, London, Eng†	29.54	750.3	68	20.0		w.			6		9		w.	sh'rs	sh'rs			showery.
S. S. England, N. 50° 55′, W. 19° 04′	29.14	740.1				n.			9		10		n.	14 h'r	14 h'r	h'vy	var	gale.
S. S. Holland, N. 44° 20′, W. 37° 02′	30.30	769.6	64	17.8		e.			3		5		e.	1 h'r	1 h'r	h'vy	n.	fair.
S. S. The Queen, N. 48° 02′, W. 32° 08′	30.10	764.5	59	15.0		nnw.			5		2		nne.	4 h'r	4 h'r	con.	ne.	clear.
S. S. Donau, N. 50° 54′ W. 27° 46′	29.97?	761.2?				nw.			5		4		nw.	12 h'r	12 h'r	high	nw.	fair.
S. S. Elbe, N. 44° 21′, W. 54° 34′	30.17	766.3	56.3	13.5	94	nw.			6–7		10		nw.	0	0	r'gh	nw.	overcast.
S. S. Gen. Werder, N. 50° 13′, W. 11° 06′	28.58	725.9				sse			8		10		sse.	4 h'r	4 h'r	cross	sse.	cloudy.
S. S. Habsburg, N. 40° 36′, W. 67° 39′	30.17	766.3				ne.			5		10		ne.			long	ene.	cloudy.
S. S. Neckar, N. 50° 29′, W. 12° 21′	28.45	722.6	57.0	13.9	100	se			6		8		sse.	0	0	h'vy	sse.	cloudy.
S. S. Ohio, N. 43° 44′ W. 45° 19′	30.15	765.8				ssw.			4		10		w.	2 h'r	2 h'r	mod.	ssw.	rainy.
S. S. Rhein, N. 48° 26′ W. 28° 58′			60.8	16.0		nnw.			6		6		nw.	0	0	long	nw.	fair.
S. S. Strassburg, N. 38° 00′, W. 72° 18′	30.09?	764.3?	68.0	20.0	87	nne.			5		10		ne.			6	ne.	sprinkling.
S. S. Weser, N. 50° 58′, E. 1° 07′	29.60	751.8	61.0	16.0		sw.			4		3		sw.	0	0	mod.	w.	clear.
S. S. City of Augusta, New York, N. Y†.	30.22	767.6				nw.			3		8		nnw.	0	0			foggy.
S. S. Muriel, Saint Thomas, W. I.	29.98	761.5	84	28.9		ne.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 34° 45′ W. 67° 02′ *†	30.12	765.0	78	25.6		ssw.			3		5		sw.	0	0	h'vy	ssw.	fair.
S. S. Rhynland, Antwerp, Belgium	29.58	751.3	66	18.9	94	s.			5		5		s.	4 h'r	4 h'r			fair.
S. S. Pennland, N. 47° 57′, W. 31° 14′	30.21?	767.3?	56	13.3	75	w.			6		0			0	0	h'vy	nnw.	clear.
S. S. Vaderland, N. 49° 20′, W. 25° 50′			55	12.8		n.			9		5		nw.	2 h'r	2 h'r	r'gh	var.	raining.
S. S. Waesland, N. 47° 49′, W. 42° 47′	30.27?	768.8?	54	12.2		calm			0		10			2 h'r	2 h'r	chop		rainy.
S. S. Zeeland, Antwerp, Belgium *†	29.53	750.0	56	13.3		ssw.			4		8		ssw.	0	0			cloudy.
S. S. Rotterdam, N. 40° 20′ W. 68° 58′	30.14?	765.5?	63.3	17.4	94	nne.			6		10		n.			5	nne.	cloudy
S. S. W. A. Scholten, N. 42° 14′ W. 62° 21′	30.28	769.1	56.3	13.5	88	e.			4		10		ene.	1 h'r	1 h'r	3	ene.	raining.
S. S. Belize, Kingston, Jamaica, W. I.			86	30.0		calm			0		3			0	0	sm'h		clear.
S. S. Valencia, LaGuayra, Venezuela †	29.99	761.7	86	30.0	72	ene.			1		3		ene.	0	0	mod.	ne.	clear.
S. S. State of Georgia, N. 54° 39′, W. 19° 25′ †	29.41	747.0	55	12.8		nnw			7		6		n.	sh'rs	sh'rs	short	n.	hazy.
S. S. State of Indiana, N. 48° 20′ W. 47° 10′*†	30.20?	767.1?	51	10.6		w.			1		10			12 h'r	12 h'r	mod.	ne.	raining.
S. S. State of Nevada, New York, N. Y †	30.18	766.6	68	20.0		n.			2		1		n.	0	0			clear.
S. S. State of Alabama, N. 40° 19′, W. 73° 08′*	30.10?	764.5?	62	16.7		nne.			5		5		nne.	0	0	sm'h		fair.
S. S. Thingvalla, N. 57° 59′, E. 5° 48′			56.3	13.5		ese			3		8		ese.	2 h'r	2 h'r	mod.	sse.	cloudy.
S. S. Romano, N. 44° 48′, W. 26° 38′*†	30.11	764.8	60	15.6		nw.			8		9		nw.	0	0	high	nw.	
S. S. Salerno, N. 45° 17′, W. 53° 32′ *†	30.04?	763.0?	57	13.9		n.			4		10		n.	1.0	25.	cross	var.	raining.
S. S. Dominion, N. 55° 17′ W. 27° 54′*†	29.80	756.9	54	12.2		nnw.			6		8		nnw.			r'gh	nnw.	cloudy.
S. S. Lake Manitoba, N. 51° 08′, W. 57° 48′	30.15?	765.8?	60	15.6		ne.			2		0			0	0	sm'h		clear.
S. S. Daniel Steinmann, New York, N. Y *†	30.30	769.6	70	21.1		nnw.			3		0			0	0			clear
S. S. Plantyn, N. 45° 21′, W. 40° 29′	30.21	767.3							4		2		se.	0	0	long	ne.	clear.
S. S. Saxon, N. 40° 00′, W. 73° 20′†	30.25	768.3				ne.			3		6		ne.	0	0		ese.	threatening.
S. S. Celtic, N. 41° 00′, W. 62° 53′†	30.22	767.6	65	18.3	84	ene.			4		10		e.	2 h'r	2 h'r	sm'h		overcast.
S. S. Republic, N. 51° 18′ W. 11° 22′*†	28.43?	722.1?	57	13.9		s.			9		10		s.	20 h'r	20h'r	h'vy	s;sw.	raining.
S. S. Iowa, N. 43° 04′, W 65° 44′ †	30.28	769.1	59	15.0		ne.			2		8		ne.	0	0	light	e.	foggy.
S. S. City of Alexandria, N. 33° 47′, W. 77° 11′*†	30.16	766.1	70	24.4		n.			5								ne.	misty.
Bg. Abbie Clifford, N. 38° 06′, W. 72° 42′†	30.07?	763.8?	68	20.0		nne.			6		5	se.	ne.			short	ne.	fair.
Schr. Arthur Burton, Hampton Roads, Va †	30.26?	768.6?				n.			1		2		ne.	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Delaware Bay†	30.21	767.3	67	19.4		ne.			3									clear.
Bk. Aquidneck, N. 26° 52′, W. 65° 09′*†	30.20?	767.1?	90?	32.2?		e.			3				se.	0	0	light	nw.	clear.
Bg. Alcira, N. 23° 40′, W. 74° 09′	30.06	763.5	85	29.4		e.			2		6?		se.	0	0	mod	se.	clear ?
Bgt. Achsah, Barbadoes, W. I†	29.94	760.5	83	28.3		e.			2		3		e.	2 h'r	2 h'r			clear.
Bk. Aureola, N. 36° 16′, W. 19° 28′ †	30.10	764.5	78	25.6		wsw			6		3		wsw.	1 h'r	1 h'r	mod.	wnw.	clear.
Bk. Adelaide, N. 34° 48′, W. 66° 19′† *	30.13	765.3				ssw.			6		4		ssw.	6 h'r	6 h'r	mod.	ssw.	fair.
Bg. Belle of the Bay, N. 39° 32′, W. 73° 44′ †	30.19	766.8				n.			5		2		n.	0	0	r'gh	ese.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Burswell, N. 38° 18′, W. 63° 25′*†	30.09	764.3	79	26.1		e.			2		10			21 h'r	21 h'r	str'g	var.	thnd'r st'rm
Bk. Celestina, N. 36° 10′, W. 4° 10′*†	30.04	763.0				w.			5		0			0	0	mod.	w.	hazy.
Bk. Childwall, N. 50° 51′, W. 6° 25′			60	15.6	94	se.			9		10		se.	16 h'r	16 h'r	chop	se.	heavy rain.
Bk. Cato, N. 57° 39′, W. 12° 01′†	29.33	745.0				e.			3		3?		e.			mod.	ene.	cloudy.?
Bk. Don Justo, Helgoland, Denmark						wsw.			2		10		wsw.	1 h'r	1 h'r	sm'h	nw.	raining.
Bg. Daphne, N. 36° 38′, W. 67° 33′*†	30.10	764.5	80	26.7		s.			2		5		se.	0	0	chop	s.	fair.
S. S. State of Nebraska, N. 41° 31′, W. 64° 50′*†	30.22	767.6	58	14.4		ene.			6		8		ene.	0	0	sm'h		cloudy.
S. S. D J. Foley, N. 33° 12′, W. 74° 30′*†	30.05	763.3	80	26.7	78	nne.			4		3		ne.	0	0	long	ne.	clear.
Bkt. David A. Preston, Boston, Mass						e.			3		5		e.	rain	rain			
S. Dora, N. 49° 08′, W. 25° 30′*†	29.83	757.7	58.1	14.5		nw.			9		9		nw.	14 h'r	14 h'r	h'vy	nnw.	threatening.
S. David Stewart, N. 3° 26′, W. 41° 10′†	29.86?	758.4?	85	29.4		sse.			3		2		sse.	0	0	mod.	se.	hazy.
S. E. J. Spicer, Flushing, Holland			62	16.7	88	wsw.			2		10?		sw.	sh'rs	sh'rs	sm'h		clear.?
Schr. Edith R. Seward, Loboy Island, Ga†	30.04?	763.0?	73	22.8		nne.			3		2		ne.	0	0			clear.
Bk. E. D. Bigelow, N. 25° 26′, W. 85° 08′ ..†.	29.98?	761.5?	81	27.2		ese.			4		3		ene.	3 h'r	3 h'r	sm'h		fair.
Bk. Edmund Phinney, N. 9° 35′, W. 44° 10′†	30.07	763.8	86	30.0		calm			0		5			½h'r	½hr	mod.	s.	fair.
Bk. E. L. Pettingill, N. 21° 43′, W. 39° 37′*†	30.30?	769.6?	78	25.6		ese.			4		2		e.	0	0	sm'h		clear.
S. Festina Lente, off Cape Roziere, Canada	30.20	767.1	56	13.3		nw.			1		2		nw.	0	0	sm'h		clear.
U. S. Fish. Com. S. S. Fish Hawk, New Bedford, Mass†	30.19	766.8	55	12.8		n.			1		5		nnw	0	0			fair.
Bg. George, N. 31° 00′, W. 63° 35′*†	30.15	765.8	82	27.8		ese.			2		5		se.	0	0	mod.	w.	squally.
Bk. Galeon, N. 50° 08′, W. 3° 30′†	29.40?	746.7?	62	16.7		ssw.			5		10		sw.	3 h'r	3 h'r		sw.	overcast.
Bk. Gray Eagle, N. 33° 03′, W. 58° 20′*†	30.15	765.8				sse.			3		1		s.	1 h'r	1 h'r	mod.	nw.	clear.
Bg. Giles Loring, N. 31° 58′ W. 72° 26′*†	30.10	764.5	84	28.9	75	var.			2–4		4		nw.	0	0			fine.
S Hedwig, N. 37° 57′, E. 6° 16′	29.89	759.1	77.5	25.3	83	sw.			3		4		sw.	0	0	2	sw.	fine.
Schr. Isabel Alberto, N 29° 18′, W. 72° 00′†	30.02	762.5				w.			1		2		w.	0	0	mod.	var.	clear.
Bkt. Josephine, N. 25° 45′ W. 67° 37′†	30.07	763.8	83	28.3	71	e.			3		2		se.	¼ h'r	¼ h'r	mod.	se.	fair.
Schr. John L. Thomas, Hobbies Cays, C. A*†	29.97	761.2	85	29.4	83	ese.			2		2		se.	¼ h'r	¼ h'r			clear.
Schr. Jennie N. Huddell, Delaware Breakwater, Del †	30.22	767.6	69	20.6	85	ne.			3		2		se.	0	0			clear.
Bg. Josefa, Bristol, Eng†	29.27	743.4				se.			5		9		s.	7 h'r	7 h'r			raining.
Bk. Lady Hincks, N. 49° 45′, W. 13° 20′ *†	28.40	721.3				wsw.			9		10		sw.	6 h'r	6 h'r			threatening
Bkt. Louise Adelaide, N. 2° 42′, W. 24° 55′†	30.04	763.0	80	26.7		s.			3		10		w.	2 h'r	2 h'r	chop	sse.	cloudy.
Bg. L. & W. Armstrong, St. Pierre Martinque, W.I*†	29.94	760.5				ne.			1		1		ene.	½ h'r	½ h'r			clear.
S. S. Madrid, Genoa, Italy			77	25.0	91	se.			1		8		s.	0	0			fair.
Bk. Mohican, N. 9° 03′, W. 39° 57′	29.87?	758.7?	80	26.7		sw.			2		10		sw.	6 h'r	6 h'r	light	se.	cloudy.
Bk. Ottawa, N. 44° 31′, W. 53° 35′	30.03?	762.7?	56	13.3		n.			6		10		n.	10 h'r	10 h'r	r'gh	sw.	cloudy.
S. Paramita, N. 43° 02′, W. 60° 51′	30.28	769.1	60	15.6		ne.			6		8?		e.	0	0	high	ene.	clear?
Schr. Rollin Sanford, N. 29° 45′, W. 86° 42′ †	30.13	765.3				e.			4		5		e.	0	0	sli't	e.	fair.
Bg. Rising Sun, San Juan, Porto Rico, W. I†	30.01	762.2	85	29.4		e			4		1		e.	0	0			clear.
Schr. S. B. Hubbard, Mayport, Fla†	30.09	764.3	80	26.7		ne.			5		5		ne.	0	0			fine.
Bgt. Sunlight, N. 8° 20′, W. 57° 00′*†	29.97	761.2				ese.			3		5		se.	0	0	sm'h		smoky.
Bk. Scud, N. 19° 34′, W. 67° 33′*†	30.05	763.3	88	31.1		e.			4		5		e.	0	0	sm'h		fine.
Bk. Southern Belle, N. 38° 00′, W. 18° 50′†	29.95	760.7	76	24.4		w.			6		5		w.			r'gh	w.	fair.
Bg. Teneriffe, N. 46° 20′, W. 59° 46′*	30.20?	767.1?				calm			0		0							fine.
S. S. Tower Hill, N. 45° 25′, W. 42° 48′ *†	30.30?	769.6?				ssw.			4		3?		sw.			high	n.	cloudy.?
Schr. Viola Reppard, Baltimore, Md	30.19	766.8	70	21.1										0	0			smoky.
Bgt. Willie, N. 15° 45′, W. 38° 55′*†	30.08	764.0	83	28.3		e.			3		4		e.	0	0		e.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.13	765.3	66	18.9	84	ne.			1		0					sm'h		misty.
H. M. S. Opal, S. 10° 00′, E. 12° 28′	30.00	762.0	70	21.1	95	sse.			2		5	ssw.				sm'h		d. clouds.
H. M. S. Sylvia, India Light Ship, Uruguay	29.88	758.9	54	12.2	87	ese.			3		10					2	ese.	foggy.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.89	759.2	57	13.9	94	ese.	8	3.6			10		ese.	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	29.89	759.2	56	13.3	94	s			2		10		calm			sm'h		foggy.
S. S. Hevelius, S. 33° 00′, W. 49° 30′*†	30.11	764.8	64	17.8		nne.			7		1		n.	0	0	sm'h		clear.
Bk. Great Surgeon, S. 0° 37′, W. 22° 00′*†	30.18	766.6	78	25.6		sse.			5		3		s.	½ h'r	½h'r	long	se.	hazy.
S. Gatherer, S. 28° 00′, w. 33° 55′*	30.31	769.9	64	17.8	62	var.			3		3		ene.	0	0	sm'h	s.	clear.
Bk. Godeffroy, S. 35° 05′ W. 48° 52′	29.93	760.2	64.9	18.3	88	nnw.			6					0	0	long	nnw.	hazy.
S. S. Olbers, S. 0° 36′, W. 28° 38′	30.05	763.3	80	26.7	82	sse.			5		8		sse.	0	0	mod.	sse.	cloudy.
S.S. Canonbury, S. 4° 12′, W. 34° 34′ *†	30.12	765.0				sse.			2		8		e.	0	0	mod.	se.	cloudy.
H. M. S. Boadicea, Simons Bay, Cape Colony	30.08	764.0	60	15.6		nnw.			2		6	wnw.						d. clouds.
Bg. John Wesley, Rio de Janeiro, Brazil*†	30.22	767.6	69	20.6		calm			0		0			0	0			hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Possiet Bay, China	29.89	759.2	73	22.8	90	calm			0		9	se.				sm'h		overcast.
H. M. S. Flying Fish, N. 37° 35′, E. 121° 29′	29.93	760.2	73	22.8	76	n.			1		10					1	n.	misty.
H. M. S. Magpie, N. 5° 16′, E. 119° 16′	29.90	759.4	82.4	28.0	83	calm			0		8							misty.
H. M. S. Mutine, N. 30° 20′, W. 120° 00′	29.94	760.5	65	18.3		nw.			2		5					2	nw.	d. clouds.
H. M. S. Zephyr, N. 41° 46′ E. 140° 43′	29.94	760.5	75	23.9	100	ssw.			4–6		10					1	s.	raining.
H. P. M. S. Tamega, Macao, China	29.93	760.1	80.6	27.0	84	e.			2		8			3 h'r	3 h'r			drizzling.
U. S. Naval Hospital, Yokohama, Japan	30.16	766.1	75	23.9	88	sw.			1		10			0	0			gloomy.
U. S. S. Essex, Nagasaki, Japan	30.07	763.8	80	26.7	78	calm			0		2					sm'h		clear.
U. S. S. Juniata, Singapore, Malay Peninsula	29.91	759.7	82	27.8	91	ese.			3		10			light	light	sm'h	se.	fair.
U. S. S. Monocacy, Roze Island, Corea	29.89	759.2	75	23.9	95	nw.			1		10		n.			mod.	ssw.	cloudy.
U. S. S. Palos, Hong Kong, China	29.94	760.5	80	26.7	87	se.			4		10		se.					rainy.
U. S. S. Pensacola, Honolulu, Sandwich Ids*	29.93	760.2	77	25.0	69	ne.			5		2		ne.	light	light	sm'h		clear.
U. S. S. Richmond, Yokohama, Japan	30.12	765.0	77	25.0	91	sw.			1		7		s.w.	0	0			fair.
S. S. Coptic, N. 23° 58′, E. 118° 20′	29.95	760.7	83.5	28.6	85	ene.			2		2		ne.	0	0	sm'h	s.	clear.
S. S. Oceanic, N. 34° 45′ E. 139° 56′	30.23?	767.8?	78	25.6	95	s.			3–4		8		s.	0	0	sm'h		d. clouds.
S. S Oregon, San Francisco, Cal†	29.95	760.7	54	12.2	93	calm			0									hazy.
S. S. Ancon, San Francisco, Cal†	30.00	762.0	52	11.1	86	calm			0		10							hazy.
S. S. State of California, Astoria, Oregon†	30.19	766.8	55	12.8	87	e.			1		5							smoky.
S. S. Queen of the Pacific, San Francisco, Cal†	29.99	761.7	54	12.2	93	w.			1		9							overcast.
S. S. City of New York, N. 27° 14′, W. 148° 59′*†	30.17?	766.3?	75	23.9	77	ne.			4		0					mod.	ne.	clear.
S. S. City of Tokio, N. 39° 58′, E. 154° 48′†	30.28	769.1	76	24.4	86	sw.			3		5		sw.	1 h'r	1 h'r	small	wsw.	fair.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.99	761.7	82	27.8	83	ese.			1		5?		ese.	0.05	1.3	sm'h		cloudy.?
S. S. Colima, Panama, Panama†	29.96	761.0	74	23.3	95	nne.			2		3		ne.	0.80	20.3			
S. S. San Juan, N. 7° 20′, W. 83° 52′			80	26.7		sse.			1	1 c		sse.		2 h'r	2 h'r	long.	sse.	fine.
S. S. Benledi, N. 15° 00′, E. 109° 45′*†	29.90	759.4	83.5	28.0	81	se.			3		4		ese.	2 h'r	2 h'r	mod.	se.	fine.
S. Mt. Washington, N 36° 20′, W. 137° 37′*†	30.32?	770.1?	69.3	20.7	77	e.			4		5		e.	3 h'r	3 h'r	h'vy	n.	fair.
S. St. David, N. 35° 00′, E. 139° 40′ *†	30.18	766.6	81	27.2	91	sw.			5		2		sw.	0	0	light	sw.	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 58′, E. 156° 05′	29.91	759.7	80.3	26.8	89	se.			2		10					sm'h		thund'r st'm
U. S. S. Hartford, Callao, Peru *	29.99	761.7	61	16.1	94	se.			2		10			0	0			cloudy.
U. S. S. Iroquois, Callao, Peru	30.11	764.8	60	15.6	94	s.			1		2							clear.
U. S. S. Lackawanna, Callao, Peru *	30.04	763.0	60	15.6	94	var.			1		8		se.					cloudy.
U. S. S. Onward, Callao, Peru*†	30.15	765.8	59	15.0	94	s.			1		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.6	59	15.0	100	calm			0		0							clear.
S. S. City of Sydney, Sydney, N. S. W*†	29.85	758.2	55	12.8	81	sw.			1		2 n		sw.					clear.
S. S. Zealandia, Sydney, N. S. W	29.96	761.0	50	10.0	86	calm			0		0							clear.
Bk. Chas. Stewart, S. 30° 00′, W. 73° 50′†	30.26	768.6	56	13.3		s.			6		5		sw.	0	0	mod	var.	fair.
S. David Crocket, S 8° 31′, W. 119° 21′*	29.88	758.9	76	24.4	82	ese.			5		8		ese.	4 h'r	4 h'r	r'gh	ese.	showery.
S. Sovereign of the Seas, S. 54° 51′, W. 81° 00′*†	30.18	766.6	40	4.4	82	ssw.			4		5		ssw.	3 h'r	3 h'r	sm'h	ssw.	showery

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 18° 10′, E. 49° 29′	30.10	764.5	.....	.....	.....	ene.	.....	.....	1	.....	4	wnw.	.....	.....	.....	2	ese.	d. clouds.
H. M. S. Euryalus, S. 15° 55′, E. 55° 00′	30.06	763.5	73	22.8	81	wnw.	.....	.....	1	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	76	24.4	86	se.	.....	.....	3	.....	3	ese.	.....	.....	.....	3	sse.	d. clouds.
H. M. S. Woodlark, N. 26° 09′ E. 51° 50′	29.69	754.1	92.5	33.6	74	wnw.	.....	.....	5	.....	0	.....	.....	.....	.....	2	nw.	misty.
Bk. Pilgrim, S. 17° 56′, E. 75° 30′*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	3	.....	5?	.....	.....	0	0	long	se.	clear ?

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

UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W. B. Hazen, Chief Signal Officer.

Signal Office 1th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 2, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.91	759.6	78.4	25.8	75	n.			1		0			0	0	clear	Roziere.
Algiers			29.89	759.3	83.8	28.8	29	wnw.			7		0			0	0	clear	Thève.
La Galle			29.93	760.1	82.8	28.2	66	ene.			2		2			0	0	fair	Fonfrède.
Tunis			29.90	759.5	91.0	32.8	34	nne.			3		0			0	0	clear	Delord.
Saida			29.99	761.8															Pérès.
Tebessa			29.98	761.4	85.3	29.6	34	sw.			5		0			inap.	inap.	clear	St. Martin.
Geriville					89.6	32.0	14	nw.			1		2			0	0	fair	Forfert.
Laghouat			29.98	761.4	89.6	32.0	36	se.			5		0			0	0	clear	Abrahani.
Biskra			29.95	760.7	100.4	38.0	22	e.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.70	754.4	51.5	10.8	69	nw.	25	11.2			1 kn			0.275	7.0	squally	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.37	746.0	29.46	748.3	51.5	10.8	79	n.	19	8.5			6			0.06	1.5		R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.16	740.7	29.68	753.9	79.7	26.5	44	sw.			5		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.85	732.8	29.57	751.0	81.9	27.7	40	sw.	6.3	2.8			0			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.40	721.3	29.72	755.0	84.0	28.9	38	s.			3		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.23	717.0	29.49	749.1	76.1	24.5	61	ene.			1		2			0.043	1.1		The Staff.
Lemberg	28.76	730.5	29.69	754.0	78.4	25.8	53	s			5		2			0	0		Dr. T. Stanecki.
Pola	29.65	753.0	29.75	755.7	78.6	25.9	67	s.			3		5			0.339	8.6		I. R. Hydrographic Office.
Szathmar	29.26	743.2	29.70	754.4	84.6	29.2	36	w.			3		2			0	0		Joseph Midlinszky, S. J
Szegedin	29.44	747.8	29.70	754.4	82.4	28.0	45	s.			1		4			0	0		Karl Stu[illegible]cel.
Trieste	29.67	753.7	29.77	756.2	80.8	27.1	60	e.			1		7			0.386	9.8		Royal Academy.
Vienna	28.86	733.0	29.53	750.0	83.1	28.4	39	s.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	28.94	735.1	29.04	737.6	53.0	11.7	97	e.	42	18.8			10			0.525	13.3	raining	W. Boswell.
Armagh, Observatory	29.58	751.3	29.82	757.4	55.9	13.3	97	n.	9	4.0									S. Call.
Bidston, Liverpool Obs'y			28.63	727.2	59.4	15.2	85	e.	26	11.6			10					overcast	John Hartnup.
Bolton, Sharples	28.18	715.8	28.68	728.5	57.7	14.3	82	e.	27	12.1			10					raining	Thomas Mackereth.
Bradford, Yorkshire																0.33	8.4		M. Landsborough & Preston.
Bridgetown, Barbadoes	29.92	760.0	29.95	760.7	83.0	28.3	71	ne.			1		2			d. clouds			Corpl. W. I. Cull, A. H. O
Cardington	28.70	729.0	28.80	731.5	60.2	15.7	87	sw.			9.0		10					overcast	John McLaren.
Chatham, School M. E.	28.74	730.0	28.91	734.3	59.0	15.0	85	sw.			7		10			blank	blank	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	28.54	724.9	28.76	730.5	58.0	14.4	94	w.			6		10					raining	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	82.0	27.8	16	e.			1							blue sky	C. Stares, A.H.O.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.79	756.7	29.82	757.4	56	13.3	87	ne.			6		10			0.79	20.1	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	75.2	24.0	89	w.			5		2					blue sky	Sgt. F. Norris, A. H.O.
Glasgow, Observatory	28.59	726.2	28.79	731.3	57.5	14.2	88	ene.			5		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	28.68	728.5	28.85	732.8	57.6	14.2	97	s.			6		10					showery	The Staff.
Guernsey	28.59	726.2	28.88	733.5	58.1	14.5	98	sw.			6		10			0.58	14.7	raining	A. Collenette, F. M. S.
Kew, Observatory	28.79	731.3	28.83	732.3	60.3	15.7	85	ssw.	32	14.3			10					raining	The Staff.
Leicester, Museum	28.48	723.4	28.72	729.5	58.9	14.9	88	s.			5		10					raining	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	83.0	28.3	64	se.			2		3			0	0	blue sky	Corpl. Keene, A. H. O.
Nassau, Bahamas	30.04	763.0	30.08	764.0	83.5	28.6	71	ne.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	28.49	723.6	28.72	729.5	58.1	14.5	93	se.			6		10					raining	The Staff.
Plymouth	28.55	725.2	28.62	726.9	58.4	14.7	97	sw.			7		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.13	739.9	29.23	742.4	55.3	12.9	99						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.75	755.6	29.81	757.2	65.6	29.8	57	n.			1		1					misty	W. H. Lyne.
Sheffield	28.47	723.1	28.74	730.0	57.1	13.9	97	s.			4		10			0.26	6.6	raining	W. F. Cooper.
Silloth Rectory	28.72	729.5	28.75	730.2	61.7	16.5	81	ese.			4		10			0.250	6.3	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			28.73	729.7	58.3	14.6	81	ese.	14	6.3			10					raining	W. C. Carlisle.
Strathfield Turgiss					60.6	15.9	91	s.			2.5		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	28.90	734.0	28.98	736.1	60	15.6	94	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.03	737.3	29.06	738.1	55.4	13.0	84	nw.	32	14.3			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.58	751.3	29.98	761.5	82.9	28.3	74	s.	6.2	2.8		4 c	3 n	w.	s.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.93	760.2	29.97	761.2	59	15.0	82	sw.	18	8.0			5 s			0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.07	763.8	60	15.6	79	se.	5	2.2		0	2 s		calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.97	761.2	30.04	763.0	55	12.8	86	sw.	2	0.9		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.75	755.6	29.94	760.5	58.2	14.6	85	sw.			2	0	6 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.88	758.9	29.93	760.2	56.0	13.3		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.	28.03	711.9			35	1.7	76	w.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.83	757.7	29.86	758.4	65	18.3	81	s.	20	8.9		7 k	hz.	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.47	748.4	30.33	770.4	40	4.4	96	nw.	5	2.2		0	7 ks		nw.	0	0	fair	James Stewart.
Fredericton, N. B.	29.99	761.7	30.06	763.5	49.0	9.4	93	sw.	10.0	4.5			fg.					dense fog	Prof. Thos. Harrison
Grand Manan, N. B.	29.95	760.7	30.00	762.0	55	12.8	86	ne.	8	3.6			10 s		se.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.85	732.8	29.91	759.7	63.0	17.2	94	sw.	9	4.0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.90	759.4	30.03	762.7	57	13.9	100	e.	5	2.2			fg			0.082	2.1	light rain	A. Allison.
Hamilton, Ontario	29.53	750.0	29.91	759.7	65.1	18.4	88	sw			1		10 ks			0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.63	752.6	29.96	761.0	65	18.3	96	s.	9	4.0		10 c		calm		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.								s.			4		10 n			0	0	overcast	C. H. Rigby.
London, Ontario	29.10	739.1	29.97	761.2	63.7	17.6	87	s.			2	0	8 n			0.04	1.0	d. clouds	V. B. Reed.
Medicine Hat	28.00	711.2	30.33	770.4	43	6.1	83	se.	6	2.7		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.75	755.6	29.95	760.7	62	16.7	81	s.	10	4.5		5 cs	5 ks	w.	w.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.71	754.6	29.95	760.7	59.4	15.2	89	ssw.					10 s			0.039	1.0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.18	741.2	29.85	758.2	65	18.3	84	s.	6	2.7			10 n			inap.	inap.	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.18	741.2	29.89	759.2	63.7	17.6	88	calm			0		10 n			0	0	overcast	Wm. O'Connor, M.A.
Port Dover, Ontario	29.27	743.4	29.94	760.5	68	20.0	90	sw.	10	4.5			10 cs		sw.	inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.95	760.7	65	18.3	100	sw.	11	4.9			10 n		sw.	0.15	3.8	light rain	M. Payne.
Que Appelle, N. W. T.	28.05	712.5	30.38	771.0	36	2.2	96	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.60	751.8	29.95	760.7	60	15.6	93	calm	0	0		10 ck		w.		0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.44	747.8	29.89	759.2	61	16.1	93	e.	1	0.4			10 s		w.	0.09	2.3	cloudy	W. H. McIntyre.
St. Andrews, N. B.	29.94	760.5	30.00	762.0	52	11.1	93	e.	1	0.4		0	0			0	0	clear	
St. John, N. B	29.87	758.7	30.01	762.2	55.8	13.2	91	se.	1	0.4		7 cs		sw.		0.02	0.5	blue sky	G. Hutchinson.
Saint John's, N. F.	29.97	761.2	30.22	767.6	62	16.7	77	sw.			2	0	0			0	0	clear	The Commandant.
Saugeen, Ontario*	29.16	740.7	29.84	757.9	66	18.9	84	se.	5	2.2			10 ks			0.11	2.8	cloudy	
Stratford, Ontario	28.66	728.0	29.90	759.4	63.7	17.6	89	sw.	5.0	2.2			10 s			0	0	d. clouds	G. J. Macgregor, M. A.
St. Pierre, N. F.			30.16	766.1	53.6	12.0		sw.			2					3.08	78.2	clear	The Commandant.
S. W. Point, Anticosti	29.74	755.4	29.77	756.1	58	14.4	83	se.	5	2.2		0	0			0	0		Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	30.07	763.8	30.13	765.3	57	13.9	90	calm	0	0		10 cs		sw.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.55	750.6	29.92	760.0	64	17.8	90	s.	8	3.6			10 ks			0.11	2.8	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.89	733.8	29.91	759.7	66.7	19.3	84	sw.	12	5.4			10 s			0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.89	759.2	29.96	761.0	59	15.0	90	e.	11	4.9			10 s		e.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	62.0	16.7	83	w.	5.5	2.5			10 k			0	0	hazy	I. Garfelt.
Springbok Fontein	27.86	707.6			60	15.6	53									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.06	763.4	30.13	765.4	53.1	11.7	84	se.			1	8 cs	0	se.				fair	Samuel Redolez.
Iquique	30.00	761.9	30.02	762.6	61.2	16.2	77	sw.			3							cloudy	Rafael Moreno.
Niebla	29.59	751.5	29.69	754.2	39.9	4.4	87	e.			4	2 n	1	s.	e.	0	0		Federico Köhling.
Punta Caldera	30.03	762.8	30.12	765.0	55.4	13.0	81	sw.			1	8c		s.				fair	Manuel Tobar.
Punta Corona	30.24	768.0	30.43	772.8				s.					0			0	0	clear	Ignacio Ayala.
Valparaiso	29.97	761.2	30.11	764.8	49.8	9.9	84	sw.										fair	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Sung-shu-chwang	25.23	640.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai.	29.87	758.7	29.90	759.4	79.3	26.3	94	se.	7.8	3.5			2			0	0	fair	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.43	747.6	29.48	748.8	61.7	16.5	75	sse.	11	5			10					raining	Oversergent Fischer.
Fanoe	29.30	744.3	29.32	744.8	61.0	16.1	94	sse.	13	6			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.69	754.2	29.74	755.3	42.6	5.9	79	ne.	9	4			8						A. O. Thorlacius.
Thorshavn	29.45	747.9	29.47	748.5	48.6	9.2	78	ene.	16	7			10						Overloerer Bergh.
Vestervig	29.25	742.9	29.34	745.2	58.5	14.7	86	e.	13	6			10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.76	756.0			91.8	33.2		ne.	5.1	2.3			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.18	741.1	29.81	757.1	66.2	19	46	w.			4		nk		w.	0	0		M. Labroue, Director.
Alençon, Normal School	28.82	732.0	29.33	744.9	60.1	15.6	87	s.			4		5 n		n.	0.24	6.	cloudy	M. Nicot, Director.
Avignon, Normal School	29.62	752.4	29.70	754.4	77.7	25.4	68	s.			3		10			0.24	6.	covered	M. Giraud, Director.
Bar-sur-Seine	28.93	734.9	29.46	748.3	72.0	22.2	36	wsw.			4		8 kn		w.	0	0	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.00	736.6	29.25	743.0	66.4	19.1	46	sw.			10		8		sw.	0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.68	728.4	29.57	751.0	57.6	14.2	93	s.								0	0		M. Gobin, Director.
Bordeaux, Observatory	29.42	747.3	29.68	753.8	61.7	16.5	71	wnw.			4		8			0.031	0.8	raining	M. Rayet, Director.
Bourges, Normal School	29.02	737.1	29.55	750.6	66.2	19	66	sw.			10				sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	28.93	734.8	29.17	741.0	58.3	14.6	89	w.			10		10		w.	0.268	6.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.38?	746.2?	29.46?	748.3?	57.9	14.4	95	sw.			8		8		sw.	0.043	1.1	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.91	759.6	29.42	747.3	68.9	20.5	91	sw.			10		5			0.039	1.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.01	736.9	29.50	749.3	68.5	20.3	50	se.			6		1	ne.		0.16	4	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.24	717.2	29.54	750.4	64.8	18.2	46	sw.			10		2			0.008	0.2		M. Alluard, Director.
Cluny, Normal School	28.78	730.9	29.60	751.7	59.0	15	85	sw.			2				sw.	0.256	6.5		M. de Villemontée, Dir.
Commercy, Normal School	28.66	728.0	29.49	749.0	63.3	17.4	57	wsw.			6		5 kn	wsw.	wsw.	0.087	2.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.6	29.82	757.3	62.6	17	81	s.			1		9 n			0.122	3.1		M. Jarach, Director.
Gréasque, du Rhone	28.58	726.0	29.65	753.2	73.8	23.2	74	s.			6		7		se.	0	0		M. Kina, Director.
Grenoble, Normal School	28.76	730.5	29.49	749.0	83.8	28.8	25	sw.			6		kn		s.	0.035	0.9		M. Ablard, Director
Guéret, Normal School	28.04	712.3	29.58	751.4	59.4	15.2	60	sw.			6		5 kn		ne.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.07	738.4	29.35	745.4	57.2	14	93	s.			10		8		s.	0.689	17.5	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.19	741.4	29.82	757.3	72.9	22.7		w.			5		2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.13	739.8	29.23	742.4	58.6	14.8	34	sw.			10		10		sw.	0.181	4.6	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.60	726.4	29.61	752.2	58.8	14.9	78	w.			1		10		ssw.	0.039	1.0	raining	M. André, Director
Mans, Normal School	29.03	737.4	29.33	745.0	56.1	13.4	85	sw.			8		8		sw.	0.079	2.0	raining	M. Richard, Director
Marseille, Observatory	29.42	747.3	29.69	754.0	74.3	23.5		ese.			6		8		sse.	0.039	1.0		M. Stephan, Director.
Montlouis	24.78	629.5	29.63	752.5	53.2	11.8	73	sw.	15.0	6.7			3	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.69	754.0	29.79	756.7	69.1	20.6	34	nnw.			6		5	s.	s.	1.10	28.	cloudy	M. Galzin, Director.
Nantes, Observatory	29.23	742.4	29.39	746.4	61.3	16.3	72	wsw.			2-6		10 n		sw.	0.283	7.2	raining	M. Larocque, Director.
Perpignan, Observatory	29.58	751.3	29.69	754.1	72.5	22.5	73	nw.	11.2	5.0			3		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.07	535.2			36.0	2.2	53	sw.			2		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.63	727.2	29.66	753.3	68.0	20		s.			1		5	s.	s.			raining	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.77	629.2			44.1	6.7	53	wsw.			7		8		wsw.	0.098	2.5	stormy	M. Allnard.
Rochefort, Naval Obs'y	29.50	749.4	29.54	750.2	65.8	18.8	88	sw.			6		10		wsw.	0.134	3.4	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.29	743.9	29.50	749.2	58.8	14.9	63	sw.			1		10	sw.	sw.	0.425	10.8	raining	M. Brotier, Director.
Rodez, Normal School	27.65	702.1	29.76	755.8	58.3	14.6	100	nw.			2		10		ne.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.13	740.0	29.18	741.2	65.1	18.4	86	sw.			6		5	sw.		0.189	4.8	cloudy	M. Moullot, Dir.
Saint Maur, Observatory	29.17	740.9	29.34	745.1	65.8	18.8	78	sw.			10		10		sw.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.10	739.0	29.84	757.8	71.1	21.7	43	nw.			4		5	w.		0	0	cloudy	M. Bailland, Director.
Tours	29.25	743.0	29.43	747.5	65.8	18.8	46	ssw.			8		8	w.	sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	28.84	732.4	29.33	745.0	64.0	17.8	53	w.			10		5			0.004	0.1	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.65	753.1	29.80	756.9	71.2	21.8	45	nw.	13.9	6.2			7 k		w.	0.028	0.7		M. Cartier, Director.
German.																			
Ansbach	28.15	714.9	29.51	749.6	74.1	23.4	46	sw.			2		9	sw.		0	0		Prof. Jnedt.
Bamberg	28.72	729.5	29.55	750.6	74.3	23.5	52	sw.			2		7 n		w.	0.047	1.2	raining	Prof. Dr. Hoh.
Berlin	29.37	746.0	29.50	749.4	75.6	24.2	53	s.			2		9			0	0		Dr. Lensch.
Breslau	29.08	738.5	29.60	751.8	77.9	25.5	50	se.			2		0			0.421	10.7		Royal University Obs'y.
Carlsruhe	29.11	739.4	29.55	750.5	68.0	20.0	57	sw.			7		8	sw.		0.055	1.4	raining	Albert Senz.
Cassel	28.76	730.6	29.48	748.7	70.5	21.4	55	s.			7		8	s.		0.028	0.7		Dr. H. Möhl.
Frankfort-on-the-Main	29.17	740.9	29.52	749.7	71.8	22.1	61	w.			3		9			0	0		Physical Society.
Friedrichshafen	28.21	718.5	29.56	750.9	68.5	20.3	68	wsw.			1		8	w.		0.269	5.3		Wilhelm, Chief Tel.
Hamburg	29.30	744.3	29.39	746.6	67.3	19.6	71	sse.			4		10			0.008	0.2		E. Freiler.
Kiel	29.39	746.4	29.40	746.8	65.1	18.4	78	s.			2		10			0.039	1.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.10	739.2	29.50	749.2	80.4	26.9	45	ssw.			2		8	ssw.		0.016	0.4		H. Leppig, Asst.
Magdeburg	29.30	744.2	29.47	748.6	76.5	24.7	49	ssw.			3		10	ssw.		0	0		Weather Observatory.
Memel	29.60	751.7	29.64	752.9	66.7	19.3	83	wnw.			3		1 c						Issermann.
Munich	27.77	705.4	29.61	752.0	73.4	23.0	54	ne.			2		8	s.		0.024	0.6		Central Station.
Neufahrwasser	29.58	751.3	29.60	751.7	75.4	24.1	57	sw.			1		9			0	0		A. Lothes.
Neustadt, Palatinate	28.98	736.2	29.50	749.4	61.9	16.6	70	w.			6		10	w.				raining	Dicknether.
Stuttgart	28.61	726.6	29.45	748.1	72.1	22.3	64	s.			1		10			0.346	8.8		Prof. Dr. Schoder.
Wustrow	29.41	747.0	29.43	747.6	67.1	19.5	81	se.			4		10 k			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.52	749.7	29.88	759.0	86.7	30.4		sw.			1.5		1			0	0	hazy	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.54	750.2	29.59	751.5	83.0	28.3	80	sw.					8		sw.	0	0	d. clouds	
Deesa	29.08	738.6	29.55	750.6	79.5	26.4	87	nnw.	31.0	13.8			10	w.	w.	0.05	1.3	overcast	
Bombay	29.68	753.9	29.72	754.9	80.0	26.7	87	wsw.	2.0	0.9			9		w.	0.39	9.9	d. clouds	
Poona, Yarrowda	27.88	708.1	29.74	755.5	74.1	23.4	79	w.	23.0	10.3			9			0.10	2.5	d. clouds	
Trichinopoly	29.52	749.7	29.79	756.7	92.1	33.4	33	nw.	24.0	10.7			10			0	0	overcast	
Bellary	28.30	718.8	29.78	756.5	73.0	22.8	88	wsw.	0.8	0.4			10	ese.		0.17	4.3	gloomy	
Belgaum	27.26	692.5	29.83	757.6	69.6	20.9	91	wsw.	6.0	2.7			10	w.		0.64	16.3	d. clouds	
Lahore	28.80	731.5	29.52	749.7	93.6	34.2	57	e.	9.0	4.0			4			0	0	d. clouds	
Roorkee	28.68	728.4	29.57	751.0	80.8	27.1	92	calm	4.0	1.8			10	s.		0.60	15.2	overcast	
Agra	29.02	737.2	29.57	751.1	93.1	32.8	55	e.	0	0			10		e.	0.25	6.4	raining	
Nagpur	28.51	724.2	29.55	750.6	75.7	24.3	94	sw.	2.0	0.9			10		sw.	2.01	51.0	showery	
Jubbulpore	28.20	716.1	29.54	750.2	79.8	26.6	89	calm	6.0	2.7			10		se.	0.70	17.8	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.16	740.6	29.52	749.9	90.1	32.3	65	calm	0	0			0			0	0	blue sky	
Allahabad	29.21	741.8	29.51	749.5	90.8	32.7	77	calm	0	0			6			0.43	10.9	d. clouds	
Patna	29.38	746.3	29.57	751.0	88.0	31.4	75	ene.	5.0	2.2			8	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.57	700.2	29.55	750.6	79.5	20.4	79	ese.	9.1	4.1			7	wnw.	ese.	0	0	d. clouds	
Cuttack	29.44	747.8	29.52	749.8	81.2	27.3	90	ne.	1.0	0.4			10			4.06	103.1	overcast	
Calcutta, Alipore	29.52	749.9	29.55	750.4	81.0	27.2	91	e.	10.0	4.5			9	se.	se.	0.06	1.5	d. clouds	
Dhubri	29.51	749.0	29.63	752.6	84.3	29.1	83	calm	0	0			9	ene.		0	0	d. clouds	
Chittagong	29.59	751.6	29.68	753.8	79.5	20.4	88	se.	3.2	1.4			10			0	0	overcast	
Sibsagar	29.33	744.9	29.66	753.3	83.0	28.7	86	ne.	2.0	0.9			6	e.	e.	0.04	1.0	d. clouds	
Jeypore	28.14	714.7	29.56	750.9	81.6	27.0	87	ne.	3.2	1.4			9	e.	ne.	0.41	10.4	d. clouds	
Zanzibar	30.01	762.2			79.7	26.5	70	nnw.	2.1	0.9			7			0	0	d. clouds	
ITALIAN.																			
Udine	29.34	745.3	29.74	755.4	70.5	21.4	89	e.	0.7	0.3			10			0.252	6.4		Prof. Giovanni Clodig.
Milan	29.21	742.0	29.71	754.7	76.0	24.8	58	ne.	6.3	2.8			9	wsw.		0	0		Prof. G. V. Schiapparelli
Padua	29.62	752.4	29.73	755.1	75.0	23.9	65	nnw.	3.1	1.4			10	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.76	730.5	29.64	752.8	70.5	21.4	72	nw.	2.5	1.1			8			0.020	0.5		Prof. F. F. Denza.
Genoa	29.55	750.5	29.73	755.2	71.0	22.0	78	se	6.9	3.1			10	s.		0.067	1.7		Prof. G. M. Garibaldi.
Mondovi	27.82	706.6	29.69	754.1	69.6	20.9	69	nnw.			2		2			0.008	0.2		Prof. D. C. Bruno.
Pesaro	29.70	754.3	29.74	755.5	83.3	28.5	40	w.	15.0	6.7			5	sw.		0	0		Prof. Luigi Guidi.
Florence	29.50	749.4	29.75	755.7	79.3	26.3	55	w.			2		8			0.102	2.6		Prof. Costantino Pittei.
Leghorn	29.59	751.5	29.67	753.6	70.5	24.7	70	sw.	1.3	0.6			5			1.280	32.5		Prof. P. Monte.
Rome	29.65	753.1	29.82	757.4	81.9	27.7	47	sw.	6.9	3.1			6	sw.		1.224	31.1		Prof. P. Tacchini.
Lecce	29.65	753.2	29.89	759.3	84.2	29.0	42	sse.	9.4	4.2			4	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.03	737.4	29.89	759.1	82.4	28.0	65	wsw.	2.7	1.1			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.63	752.7	29.82	757.5	81.1	27.3	58	se.			2		3			0	0		Prof. A. Pacinotti.
Palermo	29.03	752.7	29.87	758.8	88.0	31.1	44	nne.	5.6	2.5			1			0	0		Prof. G. Cacciatore.
Syracuse	29.82	757.3	29.86	758.4	80.5	30.3	54	ssw.	18.6	8.3			8	sw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.36	745.8	29.87	758.6	78.1	25.6	85	wsw.	3.1	1.4			8	w.		0.232	5.9		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.90	759.5	29.94	760.5	76.1	24.5	92	sw.			4		10 k		sw.	0.098	2.5	cloudy	H. Hattori.
Awomori	29.83	757.7	29.87	758.7	71.3	21.8	92	w.	6.6	2.9			10ks;n			0.380	9.7	light rain	K. Ogawa.
Hamamatsu	30.07	763.8	30.10	764.5	73.8	23.2	90	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.08	763.9	30.09	764.2	74.9	23.8	95	calm			0	0	0			0.292	7.4	clear	G. Miyanonaza.
Kanazawa	29.94	760.4	30.03	762.9	75.0	24.2	78	calm	0.3	0.1		0	8 ck;s			0	0	cloudy	S. Endo.
Kioto	29.89	759.2	30.06	763.0	74.0	23.3	74	nw.	2.5	1.1		0	2 s			0	0	clear	M. Tojima.
Kochi	30.07	763.9	30.09	764.4	75.9	24.4	91	n.	3.1	1.3		0	5 s			0.08	2.0	fair	K. Kusunose.
Misaka	30.05	763.3	30.08	764.0	74.0	23.7	93	se.			1	0	8 s		nne.	0.791	20.1	cloudy	K. Masusaki
Miyako	29.82	757.3	29.93	760.1	77.4	25.2	66	ssw.	4.8	2.1		2 ck	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.86	758.4	30.05	763.3	77.1	25.1	85	calm	0	0		0	1 s			0.060	1.5	clear	S. Takehayashi.
Niigata	29.97	761.2	30.01	762.2	76.5	24.7	84	sw.	8.0	3.6		0	6 ks;s			0.155	3.9	cloudy	Satoo & Tomikawa.
Nobiru	29.94	760.6	29.96	761.0	72.3	22.4	96	nnw.	1.2	0.5		0	2 s			0	0	fair	Yoslino & Midzushina.
Numazu	30.04	763.0	30.07	763.8	76.1	24.5	83	sw.			4	0	2s;ks			0.012	0.3	clear	R. Kaneda.
Osaka	30.04	763.1	30.06	763.5	77.9	25.5	75	w.	7.0	3.1			9 s			0	0	cloudy	H. Omura.
Sakai	30.02	762.4	30.03	762.6	77.8	25.4	75	wsw.			2	0	5 s		wnw.	0	0	fair	Yamawchi&Sakamoto.
Shimonoseki	29.87	758.8	30.02	762.5	74.8	23.8	95	calm			0	0	2 s			0.327	8.3	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.00	761.9	30.07	763.8	74.3	23.5	86	ssw.	10.7	4.7		0	0			0	0	clear	The Staff.
Wakayama	30.00	762.1	30.06	763.4	77.4	25.2	74	s.	inap.	inap.		0	6ks;c			0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	756.4	30.09	764.3	73.0	22.8	56	e.	9.5	4.2									The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.08	764.0	56.3	13.5	86	wsw.	0.9	0.4		1 c	0	wsw.		0	0	clear	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	81.5	27.5	87	ene.	0.9	0.4		0	8 n		nw.	0	0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata					85	29.4	80	calm			0	0	5 k		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.15	740.4	29.15	740.4	68.0	20.0		s.			6					0.028	0.7		
Groningen	29.22	742.2	29.28	743.6	63.9	17.7		s.			5					0.083	2.1		
Helder	29.18	741.1	29.18	741.1	66.2	19.0		s.			6					0.165	4.2		
Hellevoetsluis	29.19	741.4	29.19	741.4	66.4	19.1	61	sse.			5					0.075	1.9		
Utrecht	29.21	741.8	29.25	743.0	67.1	19.5	58	s.			5		5			0.039	1.0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.7			78.8	26.0	82	nne.	0	0			8			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.27	743.5	29.34	745.1	59.0	15.0	66	calm	0	0			6			0.020	0.5		
Brono	29.48	748.7	29.52	749.7	56.1	13.4	73	nnw.			4		4			0	0		
Christiania	29.30	744.3	29.45	747.9	61.3	16.3	60	e.	7	3			9			0.142	3.6		
Gjæsvær	29.65	753.2	29.68	753.8	43.2	6.2		ne.			6		10						
Lodingen	29.50	749.2	29.54	750.4	50.7	13.7	55	ne.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores					69.6	20.9	73	wsw.	8.1	3.6			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.04	763.1	30.13	765.3	75.4	24.1	62	sw.	4.3	1.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.1	30.06	763.5	68.0	20.0	43	nw.	11.2	5.0			7			0.157	4.0		The Staff.
Ponta Delgada, Azores	30.14	765.6	30.21	767.4	75.6	24.2	56	wsw.	6.9	3.1			5			0.220	5.6		
Saint Paul de Loando	29.82	757.3	30.02	762.5	70.9	21.6	86	sw.			1		10			0.035	0.9		
San Salvador, Congo	28.15	715.0	29.99	761.7	76.8	24.9	55	w.			3		4	s.					
Serra da Estrella	25.26	641.5	30.02	762.4	45.0	7.2	84	wnw.	24.2	10.8			8			1.339	34.0		
RUSSIAN.																			
Akmolinski	28.68	728.5	29.70	754.3	76.5	24.7	25	e.	4	2		1 c	0			0	0		Major K. Lasarew.
Archangel	29.48	748.7	29.50	749.2	55.9	13.3	87	sse.	13	6			10			0.630	16.0	raining	Capt. Sseliwerstow
Ashurada	30.16	766.1	30.07	763.7	79.9	26.6	71	wsw.	9	4		0	7 kn			0.197	5.0		
Astrakhan	30.13	765.4	30.06	763.6	76.1	24.5	31	nne.	4	2		0	0			0	0		Capt. Wisganow.
Baku	30.15	765.9	30.11	764.7	77.7	25.4	57	sse.	9	4		0	0			0	0		
Barnaul	29.47	748.6	29.96	760.9	63.3	17.4	48	ne.	4	2			3			0	0		Meteorological Obs'y
Bielosersk	29.19	741.3	29.63	752.7	64.6	18.1	80	s.	11	5			10 s			0	0		
Dorpat	29.29	743.9	29.52	749.8	70.0	21.1	67	wsw.	13	6		c	8 ks			0	0		Observatory.
Ekaterinburg	28.85	732.8	29.79	756.6	62.2	16.8	57	se.	4	2		8c;ck	0			0	0		Meteorological Obs'y.
Elissawetgrad	29.53	750.0	29.95	760.8	81.1	27.3	27	ssw.	7	3		5 cs	0			0	0		
Irkutsk	28.42	721.9	30.08	764.0	45.0	7.3	86	calm			0		2			0	0		
Kasalinsk					74.8	23.8	42	nw.				c	1 k						
Kasan	29.67	753.7	29.93	760.3	67.6	19.8	46	w.	11	5		7 ck	0			0	0		Observatory.
Kem	29.35	745.6	29.41	746.9	53.6	12.0	94	se.	9	4			10 n			0.374	9.5		
Kertch	29.91	759.6	29.93	760.2	79.0	26.1	47	calm	0	0		0	0			0	0		Lagorio & Sastyres.
Kieff	29.21	742.0	29.81	757.2	79.7	26.5	38	sse.	18	8		c;ckjcs	4 ks			0	0		Observatory.
Koslov	29.49	749.1	29.98	761.5	69.6	20.9	52	wsw.	4	2		0	4 ks			0	0		
Libau	29.57	751.1	29.60	751.7	65.5	18.6	81	wsw.			5		2			0	0		E. Quass.
Lugan	29.83	757.7	30.03	762.7	79.0	26.1	29	sw.	2	1			0			0	0		Meteorological Obs'y.
Moscow	29.39	746.0	29.84	758.0	71.2	21.8	56	sw.	9	4		0	7 ks			0	0		Meteorological Obs'y
Nikolaiev	29.91	759.7	29.98	761.5	81.3	27.4	45	ssw.	13	5		3 c	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					44.8	7.1	71	calm	0	0			0						Iwanow.
Pekin, China	29.73	755.2	29.87	758.8	70.7	21.5	86	sw.	3.4	1.5		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.58	751.3	29.91	759.5	76.3	24.6	48	nw.	2	1			10 ks			0	0		
Petrozavodsk	29.20	741.6	29.37	746.4	61.3	16.3	89	ssw.	16	7			10			0.248	6.3		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mts. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.21	741.8	29.68	753.8	72.3	22.4	50	sse.	18	8		0	1 ks			0	0		
Poti	29.85	758.3	29.89	759.1	78.1	25.6	88	nw.	4	2		0	0			0	0		
St. Petersburg	29.44	747.5	29.46	748.3	66.0	18.9	79	sw.	11	5			10 n			0.035	0.9		Central Physical Obs'y.
Samarkand	27.45	697.3	29.82	757.3	74.1	23.4	47	calm	0	0		0	0			0	0		
Semipalatinsk	29.23	743.6	29.91	759.7	67.8	19.9	30	n.	4	2			0			0	0		Major Lasarew
Sevastopol	29.71	754.7	29.92	759.9	79.7	26.5	51	nw.	16	7		2 cs	0			0	0		
Staroi Bykhov	29.21	741.8	29.73	755.2	73.9	23.3	65	se.	16	7		10 ck	0			0	0	light clouds	
Tashkend Laboratory	28.15	715.0	29.69	754.0	90.3	32.4	28	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.68	728.4	30.02	762.6	83.5	28.6	33	wsw.	9	4		0	4 k			0	0		Physical Observatory.
Vernoe	27.30	693.3	29.66	753.4	77.4	25.2	35	ne.	2	1		1 ck	0			0	0		
Viatka	29.21	741.9	29.82	757.4	63.7	17.6	58	w.	7	3			4			0	0		
Warsaw	29.21	742.0	29.61	752.1	77.4	25.2	56	s.	4	2		0	2 k			0	0		Astronomical Obs'y.
Yeniseisk	30.08	763.9	30.37	771.4	44.4	6.9	75	n.	2	1			2			0.004	0.1		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.60	751.8	29.61	752.1	79.9	26.6	60	w.	18.1	8.1		0	3			0	0	almost clear	Antonio Molins.
Bilbao, Met. Obs'y	29.74	755.4	29.80	756.9	74.8	23.8	44	nw.	7.6	3.4		2	2	ne.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.7	29.87	758.6	61.2	16.2	41	sw.	19.9	8.9			4			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.72	704.2	29.89	759.1	69.4	20.8	28	sw	7.2	3.2		0	0			0.043	1.1	clear	The Staff.
Murcia, Met. Obs'y	29.74	755.3	29.88	759.0	91.2	32.9	40	ne.	2.0	0.9		3	1	se.		0	0	almost clear	Olayo Diaz, Director.
Oviedo	28.99	736.3	29.75	755.6	64.4	18.0	73	e.	19.0	8.5		4 k	6 n	n.	w.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.98	736.0	29.86	758.4	62.1	16.7	72	w.	9.4	4.2			7			0.453	11.5	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.7	30.05	763.4	77.2	25.1	85	ese.	1.6	0.7		c;ck	8	w;s		inap.	inap.	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.7	77.0	25.0	87	une.	2.2	1.0		3 cs	7ks			0.551	14.0	foggy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.8	71.6	22.0	76	w.	9.6	4.3			10		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.6	30.04	762.9	79.9	26.6	88	ne.	4.5	2.0		2 c	5 kn	ne.	ne.	0.071	1.8	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.48	748.8	29.52	749.8	49.6	9.8	66	ne.			4		10			0	0		
Umea	29.45	747.9	29.50	749.2	55.2	12.9	74	ne.			4		8			0.043	1.1		
Hernosand	29.41	747.1	29.47	748.4	63.0	17.2	63	n.			2		5			0.063	1.6		
Stockholm	29.29	744.0	29.47	748.5	59.4	15.2	78	ne.			2		10			0.193	4.9		
Wisby	29.43	747.4	29.48	748.9	64.8	18.2	76	wsw.			4		5			0.004	0.1		
Sub-series.																			
Upsala	29.37	746.1	29.46	748.3	54.9	12.7	93	nne.	4.0	1.8			10		e.	0.004	0.1		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.19	716.1	29.57	751.1	71.2	21.8	54	ssw			4		10					raining	The Observatory.
Turkish.																			
Constantinople			29.87	758.7	81.3	27.4	58	n	10	4.5			3		nw.	0	0		The Observatory.
Valona			30.08?	763.9?	83.3	28.5		s.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.81	757.1	86.0	30.0	60	w.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	62.5	16.9	75	s.	2	0.9		0	hz.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.24	742.7	29.89	759.2	62	16.7	87	w.	5	2.2			10 s			0.05	1.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.19	639.8	29.99	761.7	49	9.4	68	e.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.49	698.2	30.34	770.6	40	4.4	82	e.	4	1.8		0	0			0.20	5.1	clear	B. O. Lenoir.
Atlanta, Georgia	29.07	738.4	30.24	768.1	64.7	18.2	83	nw.	0	2.7		4 ck	fg.	n.		0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.08	764.0	30.09	764.3	64	17.8	90	n.	2	0.9			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.25	768.3	65.5	18.6	81	calm	0	0		0	fg.			0	0	clear	D. J. Young.
Baltimore, Maryland	30.07	763.8	30.12	765.0	65	18.3	78	se.	3	1.3		0	7 k		n.	0	0	fair	Geo. W. Feiger.
Barnegat City, New Jersey	30.08	764.0	30.10	764.5	65.0	18.3	84	nw.	4	1.8		8 k	0	w.		0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.72	754.9	29.74	755.4	46.2	7.9	90	ne.	12	5.4			10 n			0.4?	10.?	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.86	733.0	30.45	773.4	47.0	8.3	86	nw.	4	1.8		3 c	3 s	nw.	nw.	0	0	fair	A. Pritchard
Benton, Fort, Montana	27.53	699.2	30.37	771.4	59	15.0	56	calm	0	0		1 cs	0			0.23	5.8	clear	Thomas Morgan.
Bismarck, Dakota	28.61	726.7	30.41	772.4	41	5.0	96	nw.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.02	762.5	30.05	763.3	60	15.6	84	n.	12	5.4		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.33	694.2	30.10	764.5	58	14.4		nw.	2	0.9		0	sk.			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.89	759.2	30.04	763.0	57.0	13.9	86	ne.	3	1.3		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	73.0	22.8	97	ne.	2	0.9		0	5 s		e.	0	0	fair	E. C. Imlay.
Buffalo, New York	29.23	742.4	29.96	761.0	67.8	19.9	67	s.	12	5.4			10 s		sw.	0.12	3.0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.46	722.9	30.44	773.2	37	2.8	100	n	1	0.4			fg.			0.05	1.3	dense fog	A. Schneider.
Cairo, Illinois	29.75	755.6	30.15	765.8	69.7	20.9	80	sw.	4	1.8		3 ck	0	nw.		0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.90	759.4	30.10	764.5	54.5	12.5	96	nw.	4	1.8			fg.			0	0	dense fog	O. D. Stewart.
Cape Henry, Virginia	30.14	765.5	30.16	766.1	65.0	18.3	78	sw.	4	1.8		0	hz.			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.07	763.8	30.10	764.5	67.0	19.4	78	sw.	20	8.9			10 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.26	743.2	29.94	760.5	52	11.1	86	nw.			2		fg.		nw.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	72.2	22.3	75	ne.	10	4.5		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.15	765.8	30.20	767.1	69.0	20.6	84	ne.	5	2.2		3 ck	hz.	ne.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.18	766.6	66.0	18.9	68	sw.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.19	766.8	64.5	18.1	87	sw.	4	1.8		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.38	619.2	30.24	768.1	54.2	12.3	86	ne.	4	1.8			fg.			0.01	0.3	dense fog	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	69.0	20.6	87	sw.	4	1.8		7c;ck	0	w.		0	0	fair	Wm. Norrington.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	65	18.3	90	nw.	2	0.9			10 ks			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.10	764.5	70.0	21.1	70	se.	2	0.9		8 ck	0			inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.20	743.2	29.98	761.5	64.5	18.1	73	se.	6	2.7			10 n		w.	0.01	0.3	light rain	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.22	742.2	30.06	763.5	62	16.7	84	s.	4	1.8			10 s		nw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.23	717.0	30.13	765.3	63.0	17.2	73	calm	0	0		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T.	27.18	690.4	30.30	769.6	49	9.4	71	n.	3	1.3		4 c	0	w.		0	0	fair	T. Gibson.
Davenport, Iowa	29.34	745.2	29.98	761.5	72	22.2	82	sw.	3	1.3		hz.	hz.			0	0	light haze	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.05	763.3	60	15.6	72	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.40	721.3	30.15	765.8	46	7.8	63	e.	2	0.9		6 ck	0			0	0	fair	D. Moore.
Deadwood, Dakota	25.73	653.5	30.29	769.4	50	10.0	80	nw.	2	0.9			10 s		w.	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	64	17.8	84	sw.	17	7.6			10 s		sw.	0.19	4.8	cloudy	T. S. Townsend.
Denver, Colorado	25.09	637.3	30.20	767.1	61.2	16.2	70	nw.	6	2.7			10 s		ne.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.13	765.3	70	21.1	79	n.	10	4.5			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.92	760.0	70.0	21.1	79	s.	8	3.0			10 s			0.09	2.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.56	700.0	30.11	764.8	70	21.1	84	ne.	22	9.8		2 c	3 s	e.		0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.33	745.0	30.03	762.7	68.5	20.3	81	nw	1	0.4			10 s			inap.	inap.	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.16	766.1	56	13.3	86	nw.	19	8.5		4 ck	0	nw.		0.10	2.5	fair	N. B. Conger.
Eastport, Maine	29.95	760.7	30.02	762.5	53.5	11.9	80	n.	3	1.3		3 ck	3 s;sk	sw.	n.	0	0	fair	D. C. Murray.
Elliott, Fort, Texas	27.41	696.2	30.10	764.5	61	16.1	58	se.	4	1.8		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.42	671.1	30.07	763.8	66.0	18.9	47	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.27	743.4	29.98	761.5	68	20.0	66	s.	6	2.7			10 s		w.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.36	745.7	30.02	762.5	57.0	13.9	86	nw.	13	5.8		1 ck	8 s		sw.	0.32	8.1	cloudy	George Heathcote.
Galveston, Texas	30.08	764.0	30.12	765.0	81	27.2	74	se.	3	1.3		0	5 k		s.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.26	743.2	29.92	760.0	68.0	20.0	90	nw.	8	3.6			10 s		nw.	0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.33	643.4	29.93	760.2	73.6	23.1	24	n.	5	2.2		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	69.0	20.6	76	n.	6	2.7		3 c	0			0	0	clear	R. M. Crawford.
Helena, Montana	26.08	662.4	30.25	768.3	54	12.2	74	ne.	2	0.9			9 ks		ne.	blank	blank	cloudy	I. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	29.00	736.6	30.38	771.6	45.8	7.7	83	nw.	7	3.1		5 cs	0	n.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.04	763.0	68.2	20.1	70	sw.	2	0.9		3 ck	2 s	w.	sw.	inap.	inap.	fair	C. F. R. Wappenhans.
Indianola, Texas	30.08	764.0	30.11	764.8	82.0	27.8	74	se.	7	3.1		0	2 ks		se.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.15	765.8	30.19	766.8	69.0	20.6	90	ne.	4	1.8		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.38	716.2	30.03	762.7	72.0	22.2	79	w.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	79.0	26.1	82	ne.	8	3.6		5 cs	1 ks	sw.		1.24	31.5	fair	A. W. Browne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	66.5	19.2	76	nw.	4	1.8		4 c	0	nw.		0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.18	741.2	30.20	767.1	62.9	17.2	90	calm	0	0		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.09	764.3	65	18.3	73	n.	12	5.4		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.07	763.8	71	21.7	82	nw.	2	0.9		0	hz.			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.36	745.7	30.18	766.6	52.0	11.1	66	calm	0	0		0	sk.			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.80	756.9	30.11	764.8	68	20.0	78	calm.	0	0		0	hz.			0	0	dense haze	W. U. Simons.
Los Angeles, California	29.55	750.6	29.94	760.5	66	18.9	63	w.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.53	750.0	30.08	764.0	66.5	19.2	75	s.	4	1.8		2 c	sk.			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.45	748.0	30.13	765.3	64	17.8	78	e.	1	0.4			10 s		e.	0	0	threatening	Louis Duane.
Mackinaw City, Michigan	29.29	744.0	29.94	760.5	59.8	15.4	96	ne.	13	5.8			10 n		ne.	0.27	6.9	heavy rain	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	69.0	20.6	84	nw.	4	1.8		0	3 s			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.88	657.3	30.28	769.1	40	4.4	59	nw.	2	0.9		0	0			0.18	4.6	clear	F. Burke.
Marquette, Michigan	29.36	745.7	30.08	764.0	55.0	12.8	93	nw.	8	3.6			10 s		nw.	0.17	4.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.14	765.5	71	21.7	76	ne.	1	0.4		hz.	hz.			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.96	761.0	68	20.0	90	w.	6	2.7		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.15	765.8	30.19	766.8	72	22.2	90	n.	3	1.3		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.99	761.7	30.22	767.6	66	18.9	84	calm	0	c		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.33	745.0	30.32	770.1	43	6.1	74	n.	6	2.7		0	4 s		n.	0.03	0.8	clear	H. Bessant.
Mt. Washington, N. H.	23.94	608.1	30.09	764.3	44 0	6.7	89	nw.	12	5.4		0	sk.			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.59	751.6	30.16	766.1	66.0	18.9	84	w.	1	0.4		0	fg.			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.95	760.7	30.06	763.5	58.5	14.7	90	n.	1	0.4		0	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.02	762.5	30.07	763.8	60	15.6	81	calm	0	0		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.16	766.1	79.5	26.4	78	calm	0	0		0	1 k			0	0	clear	M. Herman.
New York, New York	29.92	760.0	30.09	764.3	62	16.7	84	calm	0	0		0	1 s			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.12	765.0	30.14	765.5	67.0	19.4	70	w.	2	0.9		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.40	695.9	30.28	769.1	59.6	15.3	82	e.	12	5.4			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y.	30.06	763.5	30.10	764.5	47.0	8.3	86	calm	0	0			sk.			0	0	dense smoke	J. Dascomb.
Omaha, Nebraska	29.04	737.1	30.22	767.6	65.8	18.8	88	n.	12	5.4			10 s		n.	0	0	cloudy	A. Pollak.
Ooglanmie, Alaska																			P. H. Ray.
Oswego, New York	29.67	753.6	29.99	761.7	61.5	16.4	85	s.	5	2.2			10 s			inap.	inap.	cloudy	J. G. Linsley
Palestine, Texas	29.63	752.6	30.18	766.6	73.5	23.1	88	s.	3	1.3		6 cs	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	70.7	21.5	84	ne.	6	2.7		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.01	762.2	30.11	764.8	65	18.3	90	sw.	4	1.8		1 cs	hz.	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.25	463.5	30.23	767.8	36	2.2	69	nw.	15	6.7		2 ck	2 s			0.03	0.8	fair	H. Hall.
Pittsburg, Pennsylvania	29.27	743.4	30.06	763.5	65.0	18.3	73	calm	0	0			10 s		w.	0	0	cloudy	G. C. Schaeffer.
Poplar River, Montana					45	7.2	83	sw.			1	0	0			0.13	3.3	clear	M. J. Wright, jr.
Port Huron, Michigan	29.20	741.7	29.87	758.7	66.0	18.9	90	s.	8	3.6			10 s			0.03	0.8	cloudy	M. H. Perry
Portland, Maine	29.97	761.2	30.02	762.5	55	12.8	86	nw.	1	0.4		4 c	fg.			0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.00	762.0	30.07	763.8	50.5	10.3	92	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.91	632.7	30.01	762.2	54.5	12.5	66	s.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	29.97	761.2	30.00	762.0	60.5	15.8	76	ne.	10	4.5		2 k	0			0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.59	751.6	29.94	760.5	68	20.0	30	n.	4	1.8		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.51	749.5	30.06	763.5	45	7.2	80	ne.	1	0.4			sk.			0	0	dense smoke	J. J. Naury.
Sacramento, California	29.82	757.4	29.89	759.2	66.0	18.9	68	s.	1	0.4		0	5 s		sw.	inap.	inap.	fair	J. A. Barwick
St. Louis, Missouri	29.50	749.3	30.09	764.3	70.0	21.1	78	s.	6	2.7		hz; 1k	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.96	761.0	29.99	761.7	58	14.4	86	s.	4	1.8			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.34	745.2	30.19	766.8	57.0	13.9	80	nw.	10	4.5		1 cs	0			0.15	3.8	clear	P. F. Lyons.
St. Vincent, Minnesota	29.45	748.0	30.32	770.1	41	5.0	92	nw.	3	1.3		0	0			0.05	1.3	clear	C. B. Dilley
Salt Lake City, Utah	25.79	655.1	30.04	763.0	64	17.8	54	ne.	2	0.9		6 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.84	757.9	29.91	759.7	66.0	18.9	91	sw.	3	1.3		0	fg.			0	0	clear	F. R. Day.
Sanford, Florida	30.09	764.3	30.14	765.5	75.5	24.2	76	ne.	8	3.6		8 c	2 k	w.	nw.	0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.28	743.7	29.95	760.7	70	21.1	70	sw.	16	7.2		3 ck	6 ks	w.	sw.	0	0	cloudy	B. F. Heugh.
Sandy Hook, New Jersey	30.06	763.5	30.09	764.3	65.0	18.3	73	w.	11	4.9		1 ok	0	w.		0	0	clear	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	61	16.1	84	w.	1	0.4		0	7 s		s.	inap.	inap.	fair	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.14	765.5	30.23	767.8	67.5	19.7	87	n.	4	1.8		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.68	677.7	30.29	769.4	38	3.3	92	w.	2	0.9		0	0			0.17	4.3	clear	S. W. Morrison.
Shreveport, Louisiana	29.93	760.2	30.17	766.3	70.0	21.1	87	se.	1	0.4		0	hz.			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.91	734.3	30.13	765.3	66	18.9	73	calm	0	0		0	sk.			0	0	clear	W. M. Mattingly.
Sitka, Alaska	30.11	764.8	30.17	766.3	47.1	8.4	86	w.	2	0.9		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.68	753.9	30.14	765.5	67.5	19.7	84	calm	0	0		0	sk.			0	0	clear	J. B. Campbell
Smithville North Carolina	30.17	766.3	30.21	767.3	64.5	18.1	82	n.	5	2.2		4 cs	0	n.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.28	769.1	45	7.2	76	calm	0	0			sk.			0	0	dense smoke.	John F. Hemenway.
Springfield, Illinois	29.36	745.7	30.03	762.7	67	19.4	81	sw.	8	3.6		2 ck	hz.	w.		0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.13	689.1	30.09	764.3	61	16.1	67	s.	3	1.3		0	0			0	0	clear	Louis Dormau.
Thomas, Camp, Arizona					66	18.9	47	s.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.26	743.2	29.94	760.5	70	21.1	66	w.	9	4.0		4 cs	2 s	w.	sw.	0.01	0.3	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.59	751.6	29.62	752.3	50	10.0	93	se.	8	3.6			10 n			0.62	15.7	light rain	Samuel Applegate.
Verde, Fort, Arizona					63	17.2	36	s.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.92	760.0	30.17	766.3	70.2	21.2	84	se.	5	2.2		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.02	762.5	30.13	765.3	61.2	16.2	88	calm	0	0			10 s			0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.30	668.0	30.12	765.0	61.9	16.6	70	nw.	1	0.4		0	3 s			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.																			B. F. Hough.
Wilmington, N. Carolina	30.15	765.8	30.20	767.1	68.0	20.0	78	n.	1	0.4		2 ck	7 s		ne.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	29.03	737.3	30.32	770.1	52.0	11.1	80	nw.	6	2.7		3 k	0	sw		0	0	clear	E. H. Thompson.
Yuma, Arizona	29.66	753.4	29.80	756.9	80.5	26.9	54	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			4		10 n		nw.			raining	W. H. Jackson.
Bogota, U. S. C.	22.07	560.6			47.8	8.8	69	calm	0	0			10 s;n			0.319	8.1		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	75.3	24.1	93	calm	0	0		3 ck;s	4 s			0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	79	26.1	82	e.			2	sk.	sk.			0	0	smoky	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	79	26.1	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					75	23.9	90	s.			1		1 ks		se.	0.52	13.2	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A	30.07	763.8	30.13	765.3	46.0	7.8	100	sw.	10	4.5			10 s		w.	0.10	2.5	raining	Ferresque & W...

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 36° 43′, E. 22° 00′	29.94	760.5	82	27.8	63	wnw.			1		2	wnw.				sm'h		d. clouds.
H. M. S. Coquette, N. 39° 38′, E. 19° 56′	29.92	761.5	80	26.7		calm			0		3	calm				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0	80	26.7	78	sse.			2		4	sse.						d. clouds.
H. M. S. Iris, Suez Canal, Egypt	29.84	757.9	81	27.2	96	nnw.			2		0							blue sky.
H. M. S. Tenedos, St. Johns, N.F.	30.19	766.8	60	15.6	65	sw.			3		7	sw.						
U. S. Navy Yard, Portsmouth, N.H.*	29.99	761.7	55	12.8	93	nw.	2	0.9			0			0	0			clear.
U. S. S. Alliance, Magdalen Isl'ds, Gulf St. Lawrence	30.05	763.3	62	16.7	83	wsw.			3		2			0	0	sm'h		clear.
U. S. S. Galena, N. 37° 35′, W. 75° 00′	30.16	766.1	69	20.6	75	nnw.			2		10		nnw.			mod.	n.	cloudy.
U. S. S. Jamestown, Gibraltar, Mediterranean	30.01	762.2	71	21.7	80	wsw.			3		10		w.			sm'h		cloudy.
U. S. S. Kearsarge, N. 40° 00′, W. 42° 15′	30.31	769.9	78	25.6	86	nw.			3		8		nw.			long	nw.	cloudy.
U. S. S. Lancaster, Villefranche, France	29.71	754.6	79	26.1	78	ssw.			1		5		ssw.			sm'h		fair.
U. S. S. Portsmouth, Portsmouth, N.H.	29.93	760.2	54	12.2	100	nw.			1		0							hazy
U. S. S. Powhatan, New York, N. Y.	30.09	764.3	65	18.3	84	sse.			1		2							clear.
U. S. S. Quinnebaug, Yarmouth roads, Eng	28.92	734.6	60	15.6	91	ssw.			8–9		10		ssw.			mod.	ssw.	cloudy.
U. S. S. Saratoga, New London, Conn	30.10	764.5	60	15.6	94	n.			2		2		n.			sm'h		fair.
U. S. S. Swatara, Halifax, N. S.	30.02	762.5	59	15.0	88	se.			1		10		se.	light	light	sm'h		raining.
U. S. S. Vandalia, Montreal, Canada	29.95	760.7	63	17.2	94	ssw.			2		5							fair.
U. S. S. Yantic, Upernavik, Greenland	29.77	756.1	37	2.8	90	n.			2		10							cloudy.
S. S. British Crown, N. 51° 19′, W. 24° 45′†	29.80	756.9	58	14.4		nw.			4		3		nw.	0	0	mod.	nw.	
S. S. British Prince, N. 48° 12′, W. 31° 12′*†	29.84	757.9	58	14.4		nnw.			4		4		nw.	8 h'r	8 h'r	mod.	ne.	clear.
S. S. Ohio, N. 52° 38′, W. 5° 15′†	28.68	728.5	58	14.4	94	nne.			3		4		nne.	20 h'r	20 h'r	large	var.	foggy.
S. S. Circassian, N. 56° 21′ W. 20° 53′	29.54	750.3	56	13.3	81	nw.			3		4		nw.			4	n.	d. clouds.
S. S. Grecian, Montreal, Canada	29.93	760.2	68	20.0	90	w.			1		10		wnw.	0	0			cloudy.
S. S. Nova Scotian, N. 52° 07′, W. 32° 02′	29.91	759.7	56	13.3		wsw.			4		8		w.			long	nnw.	fair.
S. S. Prussian, N. 43° 38′, W. 58° 44′	30.13	765.3	54	12.2		sse.			3		10			2 h'r	2 h'r	sm'h	w.	foggy.
S. S. Scandinavian, N. 42° 30′, W. 66° 32′	29.93	760.2	58	14.4		ne.			2		10			1½h'r	1½h'r	short	ene.	foggy.
S. S. Jason, N. 46° 36′, W. 22° 50′			59.0	15.0		nw.			4		5 k					3	n	cloudy.
S. S. Alvo, N. 34° 49′, W. 74° 06′*	30.10	764.5	73	22.8		n.			5		6		nne.	0	0	con	ne.	fine.
S. S. Andes, N. 15° 10′, W. 82° 00′*†	30.10?	764.5?				ne.			2		2		ne.	0	0	sm'h		clear.
S. S. Avilla, N. 19° 31′, W. 66° 04′*†	30.10	764.5	81	27.2		ene.			3		4		var.	0	0	r'gh	e.	
S. S. Australia, Malaga, Spain						nnw.			3–6		4		nnw.	0	0			squally.
S. S. Dorian, N. 53° 03′, W. 5° 40′	28.63	727.2	54	12.2		nnw.			6		10		nw	rain	rain	mod.	sw.	threatening.
S. S. Furnesia New York, N. Y.†	30.10	764.5	73	22.8	85	ssw.			2		7		ssw.	0	0			fair.
S. S. Galatia, N. 32° 09′, E. 27° 32′*†	29.96?	761.0?	80	26.7	91	nw.			1		0			0	0	sm'h		clear.
S. S. Carroll, N. 43° 15′, W. 65° 10′ *†	30.05?	763.3?	51	10.6	?	ene.			2		fg.		shr's	shr's	long	se.		rain & fog.
S. S. Landaff City, N 40° 12′, W. 66° 05′†	30.11	764.8	72	22.2		sw.			6		9		sw.	0	0	high	sw.	cloudy.
S. S. Cephalonia, N. 49° 53′, W. 20° 04′	29.68	753.9	58	14.4	88	wnw.			5		8		wnw.	6 h'r	6 h'r	r'gh	nw.	d. clouds.
S. S. Bothnia, N. 41° 49′, W. 52° 52′	30.25	768.3	70	21.1	90	e.			2		10			0	0	sm'h	ne.	gloomy.
S. S. Pavonia, Queenstown, Ireland *	28.84	732.5	60	15.6	94	nnw.			6		8		nnw.	23 h'r	23 h'r			squally.
S. S. Scythia, N. 42° 41′, W. 49° 54′	30.30	769.6	63	17.2	94	ne.			1		10			0	0	con.	var.	foggy.
S. S. Samaria, N. 50° 48′, W. 24° 15′			55	12.8		nw.			5		5?		nnw.	7 h'r	7 h'r	mod	nnw.	cloudy ?
S. S. Canada, N. 49° 13′, W. 8° 28′	29.54	750.3	68.0	20.0		w.			5		k			0	0	r'gh	w.	covered.
S. S. Ville de Bordeaux, N. 36° 00′, W. 35° 52′*†	30.30	769.6	77	25.0		n.			4		7		nnw.	0	0	h'vy	nw.	cloudy.
S. S. Arizona, N. 40° 45′, W. 68° 42′	29.88?	758.9?	59	15.0		nne.			5		10		ne.			mod	ne.	misty.
S. S. Bohemia, N. 49° 15′, W. 23° 50′						nw.			5–10		5?		nw.	rain	rain	h'vy	nw.	cloudy?
S. S. Gellert, N. 41° 42′, W. 59° 16′	30.13	765.3	80?	26.7?	100	s.			3		2		sw.	0	0	sm'h	s.	clear.
S. S. Silesia, N. 40° 33′, W. 66° 28′	30.05	763.3	63.5	17.5		n			5		10		n	0	0	mod.	n.	covered.
S. S. Westphalia, N. 50° 03′, W. 11° 45′	29.89	759.2	59	15.0	100	nnw.			8		8		nnw.	rain	rain	r'gh	nw.	cloudy.
S. S. Virginian, N. 41° 17′ W. 58° 08′*	30.12	765.0	79	26.1		sw.			5		3		sw.	4 h'r	4 h'r	mod.	ssw.	clear.
S. S. Archimedes, N. 30° 00′ W. 66° 32′	30.11	764.8				se.			1–2		2		calm	0	0	light	w.	fine.
S. S. Chalmette, N. 38° 12′, W 74° 29′†	30.16	766.1	69	20.6		nnw.			4		8		n.	0	0	mod.	ne.	cloudy.
S. S. Alleghany, Gay Head, Mass†	30.05	763.3	58	14.4		ne.			3		2		n.	0	0	light	se.	fair.
S. S. Archimede, Palermo, Sicily †	29.95?	760.7?	84	28.9		e.			2		3		e.	0	0			clear.
S. S. City of Merida, N. 25° 00, W. 80° 20′ †*	29.98?	761.5?	84	28.9		ne.			2		5?		ne.	1 h'r	1 h'r	light	ne.	cloudy?
S. S. Clenfuegos, N. 28° 02′, W. 76° 17′			82	27.8		nne.			3		6		nne.	0	0	hv'y	n.	cloudy.
S. S. Canada, N. 41° 32′. W. 55° 36′			72	22.2		se.			3		10		se.	0	0	long	se.	overcast.
S. S. England, N. 50° 27′, W. 23° 16′	29.76	755.9				nw.			6		5		nw.	h'vy	h'vy	h'vy	nw.	squally.
S. S. Helvetia, Liverpool, Eng	28.99?	736.3?	66	18.9	100	sw.			8		10		sw.	18 h'r	18 h'r			overcast.
S. S. Holland, N. 45° 33′, W. 31° 39′	29.89	759.2	64	17.8		n.			7		8		n.	4 h'r	4 h'r	high	nne.	cloudy.
S. S. The Queen, N. 49° 43′ W. 25° 43′	29.75?	755.6?	59	15.0		nw.			4		8		n.	0	0	mod.	n.	cloudy.
S. S. Donau, N. 50° 27′, W. 34° 59′	30.07	763 8				nnw.			5		5		nnw.	2 h'r	2 h'r	mod.	nnw.	fair.
S. S. Elbe, N. 46° 08′, W. 46° 30′	30.37	771.4	47.3	8.5	100	nw.			2		10		nw.	0	0	sm'h	n	covered.
S. S. Gen. Werder, N. 50° 17′ W. 15° 13′	29.51	749.5				nw.			6		8		nw.	20 h'r	20 h'r	cross	nw.	cloudy.
S. S. Neckar, N. 50° 23′, W. 16° 00′	29.60	751.8	61.0	16.1	88	n.			6		5		n.	rain	rain	hv'y	nw.	fair.
S. S. Ohio, N. 42° 50′ W. 50° 40′	30.29	769.4				ne.			3				ne.	2 h'r	2 h'r	mod.	ne.	foggy.
S. S. Rhein, N. 49° 25′, W. 21° 34′	29.91	759.7	59.0	15.0		nw.			4		6		nw.	0	0	long	nw.	fair.
S. S. Salier, N. 40° 30′, W. 70° 45′*	30.03	762.7	63.5	17.5	66	nw.			5		6		nw.	0	0	r'gh	ene.	fair.
S. S. Strassburg, N. 39° 26′ W. 68° 51′	29.95	760.7	62.5	16.9	94	nnw.			3		10		nnw.	8 h'r	8 h'r	3	var.	overcast.
S. S. Weser, N. 53° 52′ E. 7° 03′	29.30	744.2	64.4	18.0		sse.			5		1		sse.	1 h'r	1 h'r	r'gh	sse.	clear
S. S. City of Augusta, N. 37° 11′, W. 75° 14′†	30.18	766.6				nnw.			4		8		n	6 h'r	6 h'r	h'vy	se.	cloudy.
S. S. Muriel, St. Thomas, W.I.	29.98	761.5	85	29.4		ene.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 37° 30′, W. 70° 01′*†	30.10?	764.5?	68	20.0		n.			4		8		n.	1 h'r	1 h'r	mod.	nne.	squally.
S. S. Belgenland, N. 40° 00′, W. 71° 00′†	30.11	764.8	65	18.3	89	nnw.			5		9		nnw.	0	0	cross	ene.	cloudy.
S. S. Nederland, N. 50° 27′, E. 0° 06′			61	16.1	88	sw.			7		10		wsw.	4 h'r	4 h'r	high	sw.	overcast.
S. S. Rhynland, Antwerp, Belgium	29.43	747.5	68	20.0	95	w.			6		1?		wsw.	0	0			cloudy?
S. S. Pennland, N. 48° 40′, W. 24° 39′	30.13	765.3	55	12.8	81	wnw.			5		8		wnw.	0	0	h'vy	nnw.	cloudy.
S. S. Vaderland, N. 49° 29′, W. 20° 00′	29.97	761.2	57	13.9		n.			5		5		wnw.	1 h'r	1 h'r	r'gh	var.	raining.
S. S. Waesland, N. 45° 21′. W. 47° 12′	30.36	771.1	46	7.8		ssw.			2		10		sw.	1 h'r	1 h'r	mod	w.	overcast.
S. S. Zeeland, Antwerp, Belgium *†	29.24	742.7	59	15.0		sw.			8		8		sw.	6 h'r	6 h'r			squally.
S. S. W. A. Scholten, N. 43° 41′, W. 57° 36′	29.92?	760.0?	59.9	15.5	100	sse.			5		10		ssw.	8 h'r	8 h'r	1	ene.	foggy.
S. S. Belize, Kingston, Jamaica, W. I.			79	26.1		nw.			1		9			2 h'r	2 h'r	sm'h		cloudy.
S. S. Valencia, La Guayra, Venezuela †	29.97	761.2	86	30.0	65						1		ene.	1 h'r	1 h'r	mod.	ne.	clear.
S. S. State of Georgia, N. 55° 05′, W. 12° 58′†	29.32	744.7	56	13.3		n.			7–8		10		n.	shr's	shr's	con.		
S. S. State of Indiana, N. 46° 30′ W. 52° 47′*†	30.25	768.3	54	12.2		wsw.			3		2			0	0	sm'h		clear.
S. S. State of Nevada, New York, N. Y. †	30.13	765.3	69	20.6		s.			3		1		s.	0	0			clear.
S. S. State of Alabama, N. 39° 36′, W. 68° 43′ *	29.87?	758.7?	67	19.4		nne.			4		hz.		nne.	0	0	sm'h		hazy.
S. S. Thingvalla, Christiania, Norway†	29.59?	751.6?	59.0	15.0		nnw.			3		3		nnw.	0	0			clear.
S. S. Romano, N. 45° 30′, W. 21° 30′*†	29.88	758.9	60	15.6		n.			6		10		n.	0	0	h'vy		
S. S. Salerno, N. 43° 35′, W. 58° 22′ *†	30.31	769.9	63	17.2		sse.			2		10		se.	0.5	13.	sm'h	sw.	raining.
S. S. Dominion, N. 55° 08′, W. 20° 42′*†.	29.72?	754.9?	55	12.8		n.			3		2		ne.			mod.	nne.	clear.
S. S. Lake Manitoba, N. 53° 18′, W. 50° —	29.74	755.4	53	11.7		wsw.			5		4		sw.	0	0	mod.	wsw.	fair.
S. S. Daniel Steinmann, N. 40° 27′ W. 71° 50′ *†	30.14?	765.5?	70	21.1		nnw.			2		7?		calm	0	0	r'gh	ene.	overcast.?
S. S. Plantyn, N. 46° 47′, W. 35° 24′									5		3		ene.	5 h'r	5 h'r	long	nne.	fine.
S. S. Saxon, N. 41° 40′ W. 69° 50′ †	30.04	763.0				n.			3		7		ne.	0	0		ene.	fair.
S. S. Adriatic, N. 48° 20′, W. 38° — * †	30.25?	768.3?	60	15.6		w.			4				wnw.	0	0	sm'h	nw.	clear.
S. S. Celtic, N. 41° 40′, W. 55° 50′†	30.21	767.3	66	18.9	89	se.			4		8		se.	0	0	sm'h		cloudy.
S. S. Iowa, N. 44° 54′, W. 59° 37′†	30.06	763.5	55	12.8		e.			5		10		e.	6 h'r	6 h'r	light	e.	cloudy.
S. S. City of Alexandria, N. 29° 52′, W. 80° 30′ *†	30.18	766.6	81	27.2		ne.			5							mod.		d. clouds.
Bg. Abbie Clifford, N. 38° 10′, W. 72° 07′†	30.08	764.0	67	19.4		n.			4		2					long	ne.	clear.
Schr. Arthur Burton, Hampton Roads†	30.21	767.3				sw.			1		2		wsw.	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Delaware Bay†	30.13	765.3	67	19.4		wsw.			1									clear.
Bk. Aquidneck, N. 28° 02′, W. 66° 13′*†	30.20?	767.1?	92?	33.3?		se.			1				se.	0	0	light	n.	clear.
Bg. Alcira, N. 24° 50′, W. 74° 26′	30.10?	764.5?	85	29.4		ne.			2		5		ne.	0	0	mod.	n.	fair.
Bgt. Achsah, Barbadoes, W. I†	29.98	761.5	83	28.3		e.			2		3		e.	2 h'r	2 h'r			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Aureola, N. 33° 59′, W. 20° 05′ †	30.12	765.0	80	26.7		e.			5		10		ne.	6 h'r	6 h'r	h'vy	wnw.	raining.
Bk. Adelaide, N. 34° 04′, W. 63° 00′ *†	30.30	769.6				ssw.			4		6		s.	3 h'r	3 h'r	mod.	ssw.	rainy.
Bg. Belle of the Bay, N. 37° 59′, W. 73° 57′†	30.11	764.8				nnw.			6		8		e.	o	o	cross	ne.	threatening.
S. S. Burswell, N. 39° 07′, W. 59° 01′ *†	30.18	766.6	79	26.1		s.			3		3		sw.	o	o	light	nne.	clear.
Bk. Celestina, N. 37° 03′ W. 1° 14′ *†	29.96?	761.0?				sw.			5		0			o	o	sm'h	sw.	clear.
Bk. Childwall, N. 50° 18′, W. 6° 47′*	29.02	737.1	59	15.0	82	wsw.			9		10		wsw.	20 mi	nutes	cross	var.	raining.
Bk. Cato, N. 54° 34′ W. 14° 12′ †	29.35	745.5				n.			6		6		n.			r'gh	n.	fair.
Bk. Don Justo, N. 55° 10′, W. 7° 46′*†	29.86	758.4				s.			1		10		s.	1 h'r	1 h'r	mod.	s.	rainy.
Bg. Daphne, N. 26° 52′, W. 67° 24′*†	30.20?	767.1?	79	26.1		s.			2		5		se.	o	o	chop	s.	fair.
S. S. State of Nebraska, N. 43° 04′, W. 59° 13′*†	30.09	764.3	60	15.6		ssw.			3		3		sw.	6 h'r	6 h'r	sm'h		foggy.
S. S. D. J. Foley, N 30° 39′ W. 74° 33′ *†	30.10	764.5	81	27.2	78	nne.			4		4		nne.	o	o	long	n.	fair.
Bkt. David A. Preston, Boston, Mass						se.			2		2		n.	o	o			
S. Dora, N. 48° 12′ W. 26° 19′ *†	29.94?	760.5?	56.3	13.5		n.			2		5		nne.	o	o	mod.	nnw.	fair.
S. David Stewart, N. 5° 25′ W. 42° 54′ †	29.82?	757.4?	86	30.0		se.			3		2		s.	o	o	mod.	se.	hazy.
S. E. J. Spicer, Antwerp, Belgium	30.22	767.6	65	18.3	94	s.			9		10		s.	sq 'lls	sq'lls			cloudy.
Schr. Edith R. Seward, Doboy Island, Ga†	30.07?	763.8?	74	23.3		nne.			1		1		calm	o	o			clear.
Bk. E. D. Bigelow, N. 26° 10′ W. 86° 24′ †	30.01?	762.2?	84	28.9		ese.			6		2		wsw.	3 h'r	3 h'r	mod.	ese.	fair.
Bk. Edmund Phinney, N. 10° 15′ W. 44° 20′						nne.			3		5		nne.	1 h'r	1 h'r	mod.	s.	fair.
Bk. E. L. Pettingill, N. 19° 01′ W. 38° 52′ *†	30.20?	767.1?	78	25.6		e.			5		8		e.	o	o	mod.	e.	cloudy.
S. Festina Lente, off Seven Islands, Canada	29.79	756.7	54	12.2		wsw.			5		4		w.	5 h'r	5 h'r			hazy.
U. S. Fish Com S.S. Fish Hawk, New Bedford, Mass †	30.02	762.5	56	13.3		nnw.			2		10		nnw.	0.04	1.0			cloudy
Bg. George, N. 30° 35′ W. 63° 05′ *†	30.19	766.8	79	26.1		s.			2		2		s.	sh'rs	sh'rs	mod.	se.	squally.
Bk. Galeon, Plymouth, Eng†	28.66	728.0	62	16.7		sw.			7		10		sw.	24 h'r	24 h'r			overcast.
Bk. Grey Eagle, N. 33° 17′ W 56° 30′ *†	30.15	765.8				sse.			2		1		s.	1 h'r	1 h'r	mod.	nw.	clear.
Bg. Giles Loring, N. 30° 54′ W. 72° 10′ *†	30.20?	767.1?	80	26.7	74	nnw.			2–4		4		nw.	o	o			fine.
S. Hedwig, N. 38° 52′ E. 4° 51′	29.91?	759.8?	78.6	25.9	82	wsw.			5		2		wsw.	o	o	3	w.	
Schr. Isabel Alberto, N. 28° 48′ W. 72° 34′ †	30.04	763.0				se.			1		8		se.	light	light	sharp	se.	squally.
Bkt. Josephine, N. 27° 01′ W. 68° 36′†	30.09	764.3	81	27.2	78	e.			3		2		se.	o	o	mod.	se.	fair.
Schr. John L. Thomas, Vivorilla Cay, C. A *†	29.96	761.0	85	29.4	83	ene.			2		2		e.	o	o			clear
Schr. Jennie N. Huddell, off Cape May, N. J†	30.13	765.3	69	20.6	85	wsw.			3		8		w.	light	light	light	e.	cloudy.
Bg. Josefa, Bristol, Eng †	28.61	726.7				s.			8		10		ssw.	20 h'r	20 h'r			raining.
Bkt. Kryolith, Ivigtut, Greenland*†	29.80?	756.9?				ese.			7		10		ese.			sm'h		cloudy.
Bk. Lady Hincks, N. 49° 01′, W. 14° 00′ *†	29.50	749.3							7					o	o	h'vy	nw	cloudy
Bkt. Louise Adelaide, N. 2° 20′ W. 23° 30′ †	30.04	763.0	82	27.8		s.			4		hz.		s.	2 h'r	2 h'r	chop	s.	hazy.
Bg. L. & W. Armstrong, St. Pierre, Martinique, W.I.†*	29.96	761.0				ne.			1		2		ene.	o	o			clear.
S. S. Madrid, Genoa, Italy †	30.01	762.2	77	25.0	86	sse.			2		3		s.	o	o			fair.
Bk. Mohican, N. 7° 56′ W. 38° 55′	29.85?	758.2?	82	27.8		nw.			3		6?		wsw.	o	o	short	se.	clear ?
Schr. Norena, St. Pierre, Martinique, W. I*†	29.95	760.7				ene.			3		2		ne.	1 h'r	1 h'r	light	ne.	fine.
Bk. Ottawa, N. 43° 36′ W. 56° 50′	30.16	766.1	63	17.2		se.			5		10		sse.	2 h'r	2 h'r	mod.	ne.	light rain.
S. Paramita, N. 42° 01′ W. 64° 40′†	29.83	757.7	70	21.1		var.			4		7		se.	4 h'r	4 h'r	small	wsw.	foggy.
Schr. Rollin Sanford, N. 28° 43′ W. 86° 01′ *†	30.16	766.1				ne.			5		5		e.	o	o	h'vy	e.	squally.
Bg. Rising Sun, San Juan, Porto Rico, W. I †	30.01	762.2	85	29.4		e			4		1		e.	o	o			clear
Schr. S. B. Hubbard, Mayport, Fla †	30.16	766.1	78	25.0		ne.			5		0			o	o			clear.
Bgt. Sunlight, N. 6° 58′ W. 58° 05′ *†	29.99	761.7				s.			3		10		ese.					raining.
Bk. Scud, N. 22° 47′ W. 68° 09′ *†	30.11	764.8	87	30.6		e.			4		5		e.	o	o	sm'h		fine.
Bk. Southern Belle, N. 37° 48′ W. 15° 25′ †	30.05	763.3	70	21.1		nw.			2		8					h'vy	nw.	fair.
Bg. Teneriffe, Sydney, C. B*	30.15	765.8				calm			0		10							
S. S. Tower Hill, N. 46° 22′ W. 37° 00′ *†	30.29?	769.4?				nne.			4		0?					mod.	nw.	cloudy.?
Schr. Viola Reppard, Baltimore, Md †	30.13	765.3	71	21.7										e	o			hazy.
Bgt. Willie, N. 13° 30′ W. 37° 20′ *†	29.90?	759.4?	83	28.3		nne			6		10		nne.	4 h'r	4 h'r	h'vy	ne.	raining.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.16	766.1	66	18.9	92	calm			0		0							misty.
H. M. S. Opal, S. 11° 26′ E. 12° 43′	30.04	763.0	71	21.7	90	s.			1		6	ssw.				sm'h		d clouds.
H. M. S. Sylvia, India Light Ship, Uruguay	30.07	763.8	51.7	10.9	93	se.			5–6		10					4	se.	squally.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.05	763.3	55	12.8	93	se.	15	6.7			10		se.	o	o	mod.	se.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay *	30.07	763.8	54	12.2	93	ese.			6		10					r'gh		overcast.
S. S. Hevelius, S. 30° 14′ W. 46° 46′ *†	30.30	769.6	70	21.1		nne.			5		2		n.	o	o	sm'h		clear.
Bk. Great Surgeon, S. 2° 05′ W. 23° 41′ *†	30.22	767.6	77	25.0		sse.			5		9		sse.	o	o	short	sse.	cloudy.
S. Gatherer, S. 26° 00′ W. 34° 10′ *	30.27		68	20.0	74	ene.			3		2		ne.	o	o	sm'h	s.	
Bk. Godeffroy, S. 37° 14′ W. 51° 32′	29.94	768.5	58.6	14.8	95	sse.			5	k	10	wsw.	sse.	¼ h'r	¼ h'r	mod.	n.	th'nd'r storm
S. S. Olbers, S. 4° 22°, W. 30° 57′	30.07	763.8	79	26.1	93	se.			5		9		se.	½ h'r	½ h'r	r'gh	se.	cloudy.
S. S. Cannonbury, N. 1° 44′, W. 38° 16′ *†	30.10	764.5				s.			3		8		e.	o	o	mod.	s.	cloudy.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.02	762.5	58	14.4		nnw.			3		5	wnw.						squally.
Bg. John Wesley, Rio de Janeiro, Brazil *†	30.23	767.8	72	22.2		calm			0		1			o	o			hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Possiet Bay, China	29.94	760.5	70	21.1	75	calm			0		10					sm'h		overcast.
H. M. S. Flying Fish, N. 37° 35′ E. 121° 29′	29.91	759.7	73	22.8	81	n.			1		10					o	o	overcast.
H. M. S. Magpie, N. 5° 16′ E. 119° 16′	29.86	758.4	80.2	20.8	87	calm			0									misty.
H. M. S. Mutine, N. 29° 20′ W. 119° 00′	29.97	761.2	65	18.3		w.			1		2					1	w.	blue sky.
H. M. S. Zephyr, N. 41° 46′ E. 140° 43′	29.76	755.9	72	22.2	95	ssw.			4–7		3					3	sw.	blue sky.
H. P. M S. Tamega, Macao, China	29.92	760.0	84.2	29.0	85	sse.			3		3			o	o			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.12	765.0	76	24.4	47	ssw.			4		2			o	o			clear.
U. S. S. Essex, Nagasaki, Japan	30.05	763.3	82	27.8	83	calm			0		2					sm'h		clear.
U. S. S. Juniata, N. 0° 58′, E. 104° 14′	29.91	759.7	80	26.7	96	sse.			1		7	calm		hv'y	hv'y	sm'h		cloudy.
U. S. S. Monocacy, Roze Id, Corea	29.90	759.4	78	25.6	86	nw.			2		2		nw.			sm'h		fair.
U. S. S. Palos, Hong Kong, China	29.94	760.5	80	26.7	96	sse.			2		2		ese.					fair.
U. S. S. Pensacola, Honolulu, Sandwich Ids *	29.90	759.4	76	24.4	82	calm			0		2		ne.	o	o	sm'h		clear.
U. S. S. Richmond, Yokohama, Japan	30.04	763.0	77	25.0	86	ssw.			3		2		ssw.	o	o			clear
S. S. Coptic, N. 26° 46′, E. 122° 50′	29.95	760.7	82.0	27.8	89	se.			4		4		se.	o	o	sm'h		clear.
S. S. Oceanic, N. 39° 19′, E. 150° 12′	30.16	766.1	76	24.4	95	sw.			3–4		7		s.	o	o	3–4	e.	gloomy.
S. S. Oregon, San Francisco, Cal †	29.98	761.5	63	17.2	94	calm			0		10		nw.					gloomy.
S. S Ancon, San Francisco, Cal †	29.92	760.0	61	16.1	82	calm			0		1		calm					smoky.
S. S. State of California, N. 42° 50′ W. 124° 35′†	30.07	763.8	53	11.7	93	nw.			3		3		nw.			sm'h	nw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	30.03?	762.7?	54	12.2	87	calm			0		0					o	o	foggy.
S. S. City of New York, N. 29° 17′ W. 144° 50′ †	30.15?	765.8?	72	22.2	76	ne.			2		0					mod.	ne.	clear.
S. S. City of Tokio, N. 37° 27′ E. 147° 17′ †	30.25?	768.3?	76	24.4	86	sw.			5		8		ssw.	o	o	sm'h		misty.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.98	761.5	81	27.2	87	ese.			1		7		ese.	0.2	5.	sm'h		raining.
S. S. Colima, N. 7° 20′, W. 82° 00′ †	29.93	760.2	77	25.0	86	wsw			2		7?		sw.	0.10	2.5	mod.	ssw.	clear.?
S. S. Granada, N. 35° 03′, W. 121° 33′ †	29.91	759.7	57	13.9	81	nw.			2		2		nw.	o	o	mod.	nw.	clear.
S. S. Benledi, N. 11° 00′ E. 109° 00′ *	29.92	760.0	80.5	26.9	85	nw.			2–3		6?		nw.	o	o	mod.	ssw.	cloudy.?
S. Mt. Washington, N. 37° 09′ W. 137° 20′ *†	30.20?	768.6?	67.3	19.6	79	s.			1		6			1 h'r	1 h'r	swell	ne.	fair.
S. Saint David, N. 35° 12′, E. 142° 57′*†	30.07	763.8	80.3	26.8	90	wsw.			6		5		wsw.	o	o	short	wsw.	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 58′, E. 156° 05′	29.93	760.2	78.3	25.7	89	calm			0		6					sm'h		showery.
U. S. S. Hartford, Callao Bay, Peru*	29.99	761.7	61	16.1	94	se.			2		10			o	o			cloudy.
U. S. S. Iroquois, Callao, Peru	30.09	764.3	61	16.1	88	se.			2		10							overcast.
U. S. S. Lackawanna, Callao, Peru*	30.00	762.0	61	16.1	94	sse.			2		10		se.					cloudy
U. S. S. Onward, Callao, Peru *†	30.14	765.5	60	15.6	88	sse.			2		10		sse.			sm'h		cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.0	60	15.0	100	se.			1		10							overcast
S. S. City of Sydney, Sydney, N S. W*†	29.80	750.9	50	13.3	75	nne.			3		2 n		ne.					clear.
S. S. Zealandia, Sydney, N. S W	29.99	761.7	50	10.0	80	calm			0		0							clear.
Bk. Chas. Stewart, S. 27° 45′, W. 75° 00′†	30.27	768.8	58	14.4		sw.			5		5		sw.	o	o	mod.	var.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. David Crocket, S. 12° 02′, W. 120° 00′ *	29.92	760.0	74.5	23.6	80	ese.	.....	.....	6	.....	8	.....	ese.	5 h'r	5 h'r	r'gh	ese.	showery
S. Sovereign of the Seas, S. 53° 10′, W. 82° 55′ *†	30.34	770.6	40	4.4	73	nw.	.....	.....	3	.....	3	.....	nw.	1 h'r	1 h'r	sm'h	sw.	clear.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 18° 10′, E. 49° 29′	30.13	765.3	.....	.....	.....	ene.	.....	.....	1	.....	7	ese.	.....	.....	.....	2	sse.	d clouds.
H. M. S. London, Zanzibar, Zanzibar	30.07	763.8	77	25.0	86	s.	.....	.....	1	.....	1	sse.	.....	.....	.....	1	sse.	blue sky.
H. M. S. Woodlark, Bahrein Islands, Arabia	29.70	754.4	92.5	33.6	55	nne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Pilgrim, S. 18° 35′, E. 73° 00′*†	30.15	765.8	.....	.....	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	long	se.	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 3, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.93	760.2	79.9	26.6	74	n.			1		0			0	0	clear	Roziere.
Algiers			29.94	760.4	79.9	26.6	56	nne.			2		0			inap.	inap.	clear	Thève.
La Calle			29.94	760.4	78.4	25.8	73	ene.			4		3			0	0	pretty fair	Fonfrède.
Tunis			29.95	760.8	84.9	29.4	50	e.			2		0			0	0	clear	Delord.
Saida			29.99	761.8															Pérès.
Tebessa			30.00	761.9	79.5	26.4	37	s.			6		4			0	0	cloudy	St. Martin.
Geriville					89.6	32.0	14	sw.			2		4			0	0	cloudy	Forfert.
Laghouat			30.01	762.2	91.0	32.8	38	ne.			1		3			0	0	pretty fair	Abraham.
Biskra			29.96	760.9	99.3	37.4	22	e.			2		3			0.055	1.4	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			29.86	758.4	47.8	8.8	64	wsw.	25	11.2			4 kn			0.265	6.7	showery	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.16	740.6	29.25	742.9	49.0	9.4	68	nw.	21	9.4			3			0.01	0.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.34	745.2	29.87	758.6	73.4	23.0	51	e.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.03	737.4	29.78	756.3	66.2	19.0	54	sw.	8.7	3.9			5			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.43	722.0	29.75	755.7	85.1	29.5	46	s.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.57	725.7	29.87	758.7	66.6	19.2	85	w.			4		3			0	0		The Staff.
Lemberg	28 77	730.8	29.71	754.7	72.1	22.3	76	s.			5		3			0.106	2.7		Dr. T. Stanecki.
Pola	29.77	756.2	29.88	758.9	79.7	26.5	55	wsw.			1		0			0	0		I. R. Hydrographic Office.
Szathmar	29.30	744.1	29.74	755.3	80.6	27.0	48	w.			3		4			0	0		Joseph Midlinszky, S. J
Szegedin	29.57	751 0	29.84	757.8	74.5	23.6	58	calm			0		0			0	0		Karl Stancel.
Trieste	29.82	757.3	29.91	759.8	77.7	25.4	55	sw.			1		3			0	0		Royal Academy.
Vienna	29.19	741.4	29.88	758.9	70.2	21.2	39	w.			4		4			0.075	1.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	28.97	735.8	29.06	738.1	56.6	13.7	89	nw.	16	7.2			10			0.350	8.9	overcast	W. Boswell.
Armagh, Observatory	29.08	738.6	29.32	744.7	55.1	12.8	87	nw.	12	5.4			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.25	742.9	55.0	12.8	93	wsw.	30	13.4			10					raining	John Hartnup.
Bolton, Sharples	29.74	755.4	30.28	769.1	53.5	11.9	98	wsw.	34	15.2			10					raining	Thomas Mackereth.
Bradford, Yorkshire	28.90	734.0	29.30	744.2	59.2	15.1	95	sw.			4		10			0.03	0.8	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	82.0	27.8	79	w.			2		8					overcast	Corpl. W. I. Cull, A. H. C
Cardington	29.28	743.7	29.38	746.2	62.2	16.8	76	w.			8.0		8					overcast	John McLaren.
Chatham, School M. E.	29.29	744.0	29.46	748.3	63.2	17.3	59	sw.			4		7			blank	blank	gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.39	746.5	29.62	752.3	58.4	14.7	63	w.			5		5					d. clouds	The Staff.
Fort Napier, Natal	27.56	700.0	29.78	756.4	87.5	30.8	24	n.			1		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.39	746.5	29.43	747 5	55	12.8	87	nw.			3		9			0.40	10.2	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	80.0	26.7	91	w.			2		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	28.93	734.8	29.14	740 1	64.4	18.0	58	nw.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.28	743.7	29.45	748.0	61.6	16.4	65	sw.			6		9					squally	The Staff.
Guernsey	29.35	745.5	29.65	753.1	62.5	16.9	69	wsw.			5		5					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.43	747.5	29.47	748.5	62.2	16.8	54	wsw.	29	13.0			7					d. clouds	The Staff.
Leicester, Museum	29.07	738.4	29.31	744.5	59.0	15.0	70	sw.			5		9					overcast	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	86.2	30.1	50	se.			3					0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.03	762.7	30.08	764.0	80.8	27.1	83	se.			2		8			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	28 82	732.0	29.33	745.0	56.8	13.8	87	sw.			5		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.20	741.7	29.43	747.5	59.2	15.1	76	sw.			6		3					showery	The Staff.
Plymouth	29.49	749.0	29.57	751.1	61.6	16.4	74	wsw.			5		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.08	738.0	29.18	741.2	54.3	12.4	97						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.85	758.2	81.8	27.7	65	calm			0		1					misty	W. H. Lyne.
Sheffield			29.11	739.4	58.0	14.4	88	w.								0.04	1.0		W. F. Cooper.
Silloth Rectory	29.12	739.6	29.15	740.4	68.3	20.2	75	w.			2		6			0.035	0.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.17	740.9	56.3	13.5	90	w.	18	8.0			10					overcast	W. C. Carlisle.
Strathfield Turgiss					63.8	17.7	62	sw.			1.8		4					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.60	751.8	29.68	753.9	63	17.2	72	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.61	752.1	29.64	752 8	54.4	12.4	82	nw.	24	10.7			7			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.07	763.8	84.4	29.1	66	s.	2.5	1.1			0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.57	751.1	29.60	751.8	56	13.3	87	calm	0	0			10 n			0.17	4.3	overcast	Hon. J. Ferguson
Charlottetown, P. E. Island	29.54	750.3	29.58	751.3	63	17.2	78	sw.	16	7.2			10 s		sw.	0.040	1.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.50	749.3	29.56	750.8	57	13.9	86	nw.	15	6.7		2 k	7 ks	nw.	nw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.79	756.7	29.99	761.7	45.8	7.7	80	nw.			2	0	0			0.494	12.5	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.54	750 3	29.58	751.3	49.5	9.7		nw.			2		10 n			0.013	0.3	raining	H. A. Johnson.
Edmonton, N. W. T.	27.89	708.4			44	6.7	68	w.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.68	753 9	29.70	754.4	46	7.8	93	n.	25	11.2		0	0			0.40	10.2	clear	J. McWilliams.
Fort Garry, Manitoba*	29.17	740.9	30.00	762.0	50	10.0	80	s.	12	5.4			10 k		s.	0	0	cloudy	James Stewart.
Fredericton, N. B.	29.51	749.5	29.58	751.3	56.0	13.3	94	se.	5.0	2.2			fg			0	0	dense fog	Prof. Thos. Harrison
Grand Manan, N. B.	29.54	750.3	29.59	751.6	61	16.1	93	sw.	25	11.2			10 n		sw.	0.05	1.3	cloudy	J. Chipman Seeley
Granton, Ontario	29.08	738.6	30.20	767.1	46.0	7.8	92	calm	0	0		8 c	0	w.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.59	751.6	29.72	754.9	57	13.9	96	sw.	8	3.6			fg			0.115	2.9	dense fog	A. Allison.
Hamilton, Ontario	29.73	755.1	30.12	765.0	51.2	10.7	84	nw.			1	0	4 k		nw.	0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.75	755.6	30.09	764.3	49	9.4	80	nw.	12	5.4		0	0			0.23	5.8	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.50	749.3	29.54	750.3	64.5	18.1	92	sw.			3	8 k		sw.		0	0	raining	C. H. Rigby.
London, Ontario	29.29	744.0	30.20	767.1	46.7	8.2	96	calm	0	0			10 k			0	0	overcast	F. B. Reed.
Medicine Hat	27.87	707.9	30.19	766.8	41	5.0	73	s.	5	2.2		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.75	755.6	29.95	760.7	50	10.0	72	nw.	12	5.4			5 ks		nw.	0.83	21.1	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.80	756.9	30.04	763.0	46.2	7.9	84	nw.				1 k	0			0.20	5.1	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.47	748.5	30.18	766.6	45	7.2	89	n.	9	4.0		0	0			0.35	8.9	clear	Rev. R. Mosley.
Peterboro, Ontario	29.39	746.5	30.13	765.3	59.7	15.4	78	nw.			3	0	9 k			0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.47	748.5	30.10	766.1	49	9.4	93	calm	0	0		0	0			0.01	0.3	clear	H Morgan.
Port Stanley, Ontario	29.52	749.8	30.17	766.3	48	8.9	96	nw.	2	0.9			7 k		nw.	inap.	inap.	cloudy	M. Payne.
Que Appelle, N. W. T.	27.78	705.6	30.06	763.5	43	6.1	89	w.	8	3.6		0	0			0	0	smoky	Leslie Gordon.
Quebec, Quebec*	29.45	748.0	29.81	757.2	51	10.6	77	w.	10	4.5		5 k	0	n.		0.88	22.4	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.67	753.6	30.13	765.3	42	5.6	86	nw.	2	0.9		0	0			0.43	10.9	clear	W. H. McIntyre.
St. Andrews, N. B.	29.49	749.0	29.54	750.3	57	13.9	96	sw.	4	1.8			fg			0	0	dense fog	
St. John, N. B	29.46	748.3	29.60	751.8	54.0	12.2	100	s.	12	5.4			10 n			0.10	2.5	overcast	G. Hutchinson.
Saint John's, N. F.	29.64	752.8	29.88	758.9	68	20.0	95	sw.			1	0	2 ks			0.33	8.4	clear	The Commandant.
Saugeen, Ontario*	29.45	748.0	30.16	766.1	57	13.9	93	ne.	14	6.3		7 k	0	nw.		0.02	0.5	cloudy	
Stratford, Ontario	28.89	733 8	30.19	766.8	45.0	7.2	96	calm	0	0		0	0			inap.	inap.	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F.			29.72	754.9	59.0	15.0		sw.			2					0.57	14.5		The Commandant.
S. W. Point, Anticosti	29.40	746.7	29.44	747.8	51	10.6	96	nw.	4	1.8			10 n			inap.	inap.	light rain	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Sydney, C. B.	29.59	751.6	29.65	753.1	62	16.7	93	sw.	22	9.8			10 n		sw.	0.14	3.6	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.78	756.4	30.17	766.3	51	10.6	83	calm	0	0		2 cs	0	nw.		0.01	0.3	fair	Magnetic Observatory.
Woodstock, Ontario	29.13	739.9	30.20	767.1	48.5	9.2	87	w.	2	0.9		0	1 s			0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.60	751.8	29.66	753.4	55	12.8	96	sw.	13	5.8			fg			0.11	2.8	light rain	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.92	760.0	29.95	760.7	62.0	16.7	83	se.	7.5	3.4		0	8 k			0	0	hazy	I. Garfelt.
Springbok Fontein	27.91	708.9			57	13.9	54									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.10	764.6	30.18	766.6	49.1	9.5	81	s.			0	4 cs	0	n.				fair	Samuel Redolez.
Iquique	30.05	763.3	30.08	764.0	59.5	15.3	75	se.			3							cloudy	Rafael Moreno.
Niebla	29.76	755.9	29.87	758.6	39.9	4.4	97	e.			1		8		e.	0	0	misty	Federico Köhling.
Punta Caldera	30.07	763.7	30.15	765.9	53.6	12.0	82	e.			2		9 n		sw.			fair	Manuel Tobar.
Punta Corona	30.04	763.0	30.23	767.8				s.			2	6 c				0	0	fair	Ignacio Ayala.
Valparaiso	29.99	761.8	30.13	765.4	49.3	9.6	84	sw.			2							cloudy	Paez-I-Ampuero.
Chinese (*sub-series*).																			
Sung-shu-chwang	25.19	639.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.88	758.9	29.90	759.5	77.4	25.2	92	s.	32.4	14.5			10			0	0	covered	M. Marc Dechevrens, S. J.
Danish.																			
Copenhagen	29.42	747.3	29.47	748.5	64.6	18.1	69	s.	13	6			8					raining	Oversergent Fischer.
Fanoe	29.28	743.7	29.30	744.2	61.7	16.5	83	ssw.	16	7			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.60	751.7	29.64	752.8	45.3	7.4	90	ne.	4	2			8						A. O. Thorlacius.
Thorshavn	29.41	746.9	29.43	747.5	55.4	13.0	72	nne.	13	6			1						Overloerer Bergh.
Vestervig	29.14	740.2	29.23	742.5	60.6	15.9	88	ssw.	16	7			10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.69	754.1			91.8	33.3		ne.	2.7	1.2			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.32	744.8	29.96	760.9	72.0	22.2	41	se.			2		k		se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.22	742.3	29.73	755.2	61.9	16.6	89	sw.			4		5 n		ne.	0.252	6.4	cloudy	M. Nicot, Director.
Avignon, Normal School	29.92	759.9	30.00	761.9	74.1	23.4	65	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.28	743.8	29.82	757.4	69.4	20.8	45	sw.			4		8 kn		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.46	748.3	29.72	754.8	67.3	19.6	43	sw.			6		5		wsw.	0.008	0.2	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.84	732.4	29.71	754.7	66.9	19.4	64	s.			1					0.551	14.0		M. Gobin, Director.
Bordeaux, Observatory	29.59	751.5	29.84	757.9	70.7	21.5	49	s.			1		8		sw.	0.315	8.0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.30	744.1	29.83	757.8	64.4	18	85	sw.			10				sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.54	750.4	29.78	756.5	65.8	18.8	77	w.			2		7			0.374	9.5		M. de Kermarès, Dir.
Caen, Normal School	29.61	752.0	29.69	754.1	64.8	18.2	67	sw.			4		5		sw.	0.394	10.0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.37	746.0	29.68	753.8	69.3	20.7	70	s.			10		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.19	741.4	29.68	753.9	65.5	18.6	52	sw.			8		2	wnw.		0	0	¼ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.54	724.8	29.84	758.0	68.9	20.5	40	sw.			4		c; ck	k	sw.	0.008	0.2		M. Allnard, Director.
Cluny, Normal School	29.07	738.3	29.89	759.2	71.2	21.8	35	sw.			2				sw.	0.437	11.1		M. de Villemontée, Dir.
Commercy, Normal School	28.97	735.9	29.81	757.1	64.0	17.8	44	w.			6		5 kn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.17	690.2	29.62	752.4	66.2	19	43	n.			2		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.88	733.5	29.97	761.1	70.9	21.6	65	n.			2		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.13	740.0	29.88	759.0	72.3	22.4	43	wsw.			1		k		sw.	0.492	12.5		M. Ablard, Directoor.
Guéret, Normal School	28.30	718.9	29.84	757.8	64.4	18.0	53	sw.			4		5 ck		ne.	0.098	2.5		M. Delorme, Dir.
Lamballe, Normal School	29.47	748.4	29.74	755.4	56.3	13.5	89	s.			2		5		s.	0.24	6.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.28	743.7	29.91	759.6	72.7	22.6	41	e.			4		2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.66	753.3	29.76	755.9	64.0	17.8	63	wsw.			2		5		sw.	0.173	4.4	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.89	733.8	29.92	759.9	69.6	20.9	41	s.			2		8 kn			0.354	9.0	very cloudy	M. André, Director.
Mans, Normal School	29.46	748.2	29.76	755.8	63.5	17.5		sw.			6		5 kn		w.	0.083	2.1	cloudy	M. Richard, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	72.7	22.6	45	wnw.			1		0			0	0		M. Stephan, Director.
Montlouis	24.76	628.8	29.60	751.8	57.2	14.0	37	se.	11.2	5.0			10	nw.		0.146	3.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.86	758.5	29.97	761.2	72.3	22.4	74	w.			4		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.65	753.0	29.81	757.1	67.8	19.9	53	w.			1–4		8 k; kn		sw.	0.461	11.7		M. Larocque, Director.
Perpignan, Observatory	29.85	758.1	29.96	760.9	68.7	20.4	58	ne.	15.0	6.7			4	wsw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.18	538.0			41.4	5.2		sw.			4		1		sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	28.92	734.6	29.95	760.8	71.6	22.0	43	s.			1		1	s.	s.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.10	637.5			46.4	8.0	81	sw.			3	2 ck	k			0.106	2.7		M. Allnard.
Rochefort, Naval Obs'y	29.80	756.8	29.83	757.6	64.0	17.8	72	sw.			1		8		s.	0.039	1.0	¾ covered	Lt. E. Lecante, Director.
Roche-sur-Yon, N. School	29.62	752.4	29.83	757.6	66.0	18.9	87	sw.			2		8	sw.	sw.	0.47	12.	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.81	706.4	29.93	760.3	58.5	14.7	86	sw.			2		1		ne.	0	0	clear	M. Séger, Director.
Rouen, Normal School	29.65	753.1	29.70	754.3	67.3	19.6	77	sw.			1		5	sw.		0.051	1.3	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.60	751.8	29.76	756.0	68.5	20.3	38	sw.			4		5		sw.	0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.23	742.6	29.96	760.9	77.4	25.2	39	e.			4		1	sw.		0	0	clear	M. Bailland, Director.
Tours	29.63	752.6	29.81	757.1	66.6	19.2	56	wsw.			2		5	w.	wsw.	0.083	2.1	cloudy	M. de Tastes.
Versailles, Observatory	29.27	743.4	29.76	755.9	66.6	19.2	42	w.			8		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.70	754.3	29.85	758.1	72.9	22.7	51	se.	9.8	4.4		2 ck		w.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.42	721.8	29.82	757.4	65.5	18.6	45	w.			6		4	w.		0.031	0.8		Prof. Jnedt.
Bamberg	28.94	735.0	29.78	756.3	66.2	19.0	50	sw.			3		5 k		w.	0.012	0.3		Prof. Dr. Hoh.
Berlin	29.51	749.6	29.65	753.1	67.1	19.5	59	sw.			2		8			0.146	3.7		Dr. Lensch.
Breslau	29.25	743.0	29.78	756.4	67.8	19.9	44	wsw.			4		8			0.075	1.9	?	Royal University Obs'y.
Carlsruhe	29.40	746.7	29.84	758.0	67.3	19.6	46	sw.			6		5	sw.		0	0		Albert Senz.
Cassel	29.00	736.6	29.71	754.7	63.7	17.6	51	sw.			8		8	s.		0.016	0.4		Dr. H. Möhl.
Frankfort-on-the-Main	29.37	746.0	29.72	755.0	69.4	20.8	41	sw.			5		5			0.047	1.2		Physical Society.
Friedrichshafen	28.52	724.4	29.89	759.3	66.6	19.2	94	sw.			3		2	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.45	748.1	29.54	750.4	63.1	17.3	71	sw.			8		10			0	0		E. Preller.
Kiel	29.45	747.9	29.46	748.3	64.0	17.8	62	sw.			4		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.32	744.7	29.72	755.0	66.6	19.2	51	sw.			6		7	sw.		0.161	4.1		H. Leppig, Asst.
Magdeburg	29.45	748.1	29.63	752.7	66.7	19.3	53	sw.			5		7	sw.		0.291	7.4		Weather Observatory.
Memel	29.54	750.3	29.59	751.5	64.0	17.8	91	wnw.			5		10 ks					raining	Issermann.
Munich	28.10	713.8	29.96	761.0	63.9	17.7	46	nw.			4		5	w.		0.319	8.1		Central Station.
Neufahrwasser	29.59	751.5	29.60	751.9	66.4	19.1	56	sw.			3		10			0.043	1.1		A. Lothes.
Neustadt, Palatinate	29.22	742.1	29.74	755.4	67.6	19.8	50	wsw.			4		6	wsw.		0.051	1.3		Dicknether.
Stuttgart	28.90	734.1	29.77	756.1	65.3	18.5	52	w.			6		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.45	748.0	29.47	748.6	65.1	18.4	68	s.			4		10 s			0.039	1.0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.54	750.2	29.90	759.4	90.0	32.2		s.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.52	749.9	29.58	751.2	81.9	27.7	75	wsw.	22.0	9.8			10			0	0	overcast	
Deesa	29.06	738.1	29.53	749.9	85.2	29.6	69	w.	3.0	1.3			7	w.	w.	0.60	15.2	d. clouds	
Bombay	29.68	753.8	29.72	754.8	77.3	25.2	95	wsw.	20.0	8.9			10		wsw.	0.61	15.5	overcast	
Poona, Yarrowda	27.89	708.4	29.76	756.0	71.3	21.8	90	sw.	19.0	8.5			10			0.46	11.7	overcast	
Trichinopoly	29.57	751.0	29.84	758.0	89.2	31.8	43	w.	0.3	0.1			10			0	0	overcast	
Bellary	28.31	719.1	29.78	756.3	80.0	26.7	61	w.	12.0	5.4			10			0	0	gloomy	
Belgaum	27.27	692.7	29.85	758.1	67.7	19.8	94	sw.	11.0	4.9			10	w.		1.03	26.2	d. clouds	
Lahore	28.83	732.4	29.56	750.8	88.6	31.4	53	e.	4.0	1.8			4			0	0	d. clouds	
Roorkee	28.71	729.3	29.60	751.9	80.6	27.0	77	e.	3.0	1.3			8	e.		0.19	4.8		
Agra	28.98	736.1	29.53	750.1	91.2	32.9	62	e.	4.0	1.8			8		e.	0.14	3.6	drizzling	
Nagpur	28.54	724.8	29.58	751.3	75.5	24.2	91	sw.	14.0	6.3			10		sw.	7.19	182.6	drizzling	
Jubbulpore	28.20	716.3	29.55	750.5	77.2	25.1	91	s.	6.0	2.7			10		sse.	0.48	12.2	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.17	740.8	29.53	750.1	91.1	32.8	59	ene.	2.0	0.9	.....	.....	5	ne.	.....	0	0	.....	
Allahabad	29.21	741.9	29.52	749.8	81.7	27.6	90	ne.	4.0	1.8	.....	.....	6	.....	.....	0.08	2.0	d. clouds	
Patna	29.38	746.3	29.56	750.9	85.6	29.8	76	e.	8.1	3.6	.....	.....	6	e.	e.	0.17	4.3	d. clouds	
Hazaribagh	27.53	699.4	29.53	750.1	75.5	24.2	94	ese.	13.3	5.9	.....	.....	10	.....	ese.	0.24	6.1	drizzling	
Cuttack	29.48	748.8	29.56	750.9	82.6	28.1	83	sse.	4.0	1.8	.....	.....	6	.....	.....	0.72	18.3	d. clouds	
Calcutta, Alipore	29.56	750.8	29.58	751.4	82.4	28.0	84	sse.	6.5	2.9	.....	.....	5	.....	se.	0.49	12.4	d. clouds	
Dhubri	29.54	750.3	29.66	753.3	82.7	28.2	82	calm	1.2	0.5	.....	.....	4	e.	.....	0.17	4.3	d. clouds	
Chittagong	29.04	752.9	29.73	755.2	77.4	25.2	89	ese.	6.9	3.1	.....	.....	9	.....	se.	.....	.....	drizzling	
Sibsagar	29.33	745.0	29.66	753.4	87.9	31.1	76	ne.	2.0	0.9	.....	.....	4	.....	.....	0	0	d. clouds	
Jeypore	28.13	714.6	29.56	750.9	79.9	26.6	91	sse.	6.0	2.7	.....	.....	9	.....	e.	1.09	27.7	drizzling	
Zanzibar	30.02	762.5	.....	.....	79.7	26.5	71	nw.	1.6	0.7	.....	.....	8	.....	e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.47	748.4	29.86	758.5	76.1	24.5	60	s.	1.3	0.6	.....	.....	2	.....	.....	0.413	10.5	.....	Prof. Giovanni Clodig.
Milan	29.37	745.9	29.87	758.6	74.5	23.6	34	sw.	3.1	1.4	.....	.....	0	.....	.....	0.067	1.7	.....	Prof. G.V.Schiapparelli
Padua	29.74	755.4	29.85	758.1	76.6	24.8	44	w.	4.9	2.2	.....	.....	2	sw.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.0	29.85	758.3	74.3	23.5	27	nw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.09	754.0	29.87	758.7	75.7	24.3	46	se.	8.1	3.6	.....	.....	0	.....	.....	0.567	14.4	.....	Prof. G. M. Garibaldi.
Mondovi	28.00	711.2	29.87	758.7	70.9	21.6	60	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.83	757.6	29.87	758.8	82.2	27.9	23	sw.	11.2	5.0	.....	.....	1	nw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.69	754.2	29.94	760.5	76.6	24.8	37	wsw.	.....	.....	4	.....	.....	wsw.	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.81	757.2	29.89	759.3	75.6	24.2	60	wsw.	21.0	9.4	.....	.....	2	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.80	756.8	29.97	761.1	81.1	27.3	45	ssw.	9.4	4.2	.....	.....	4	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.69	754.2	29.93	760.3	84.6	29.2	36	wsw.	9.4	4.2	.....	.....	1	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.13	739.8	29.98	761.6	85.6	29.8	66	ssw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.78	756.5	29.97	761.3	80.1	26.7	67	s.	.....	.....	4	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.78	756.4	30.02	762.5	80.8	27.1	62	ne.	5.1	2.3	.....	.....	.....	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.89	759.3	29.94	760.4	84.2	29.0	51	nne.	3.8	1.7	.....	.....	.....	.....	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.49	749.1	30.00	762.0	78.6	25.9	60	sw.	6.9	3.1	.....	.....	2	ne.	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.82	757.4	29.86	758.4	68.1	20.1	93	e.	.....	.....	2	.....	10n;k	.....	sw.	1.551	39.4	raining	H. Hattori.
Awomori	29.80	750.9	29.83	757.7	68.1	20.1	87	sw.	1.4	0.6	.....	.....	10 n	.....	.....	1.834	46.6	light rain	K. Ogawa.
Hamamatsu	29.95	760.7	29.98	761.4	77.0	25.3	87	calm	.....	.....	0	2 cs	0	.....	.....	0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.02	762.4	30.03	762.7	75.4	24.1	92	nw.	.....	.....	2	0	2 s	.....	.....	0.256	6.5	clear	G. Miyanohara.
Kanazawa	29.79	756.7	29.89	759.2	76.0	24.4	79	calm	0.2	0.1	.....	0	2s;ck	.....	.....	0.005	0.1	fair	S. Endo.
Kioto	29.77	756.1	29.94	760.5	79.0	26.1	71	ssw.	2.4	1.1	.....	0	4 s	.....	.....	0.101	2.6	fair	M. Tojima.
Kochi	29.97	761.3	29.99	761.8	78.5	25.8	88	e.	6.9	3.0	.....	.....	10 s	.....	.....	0.02	0.6	overcast	K. Kusunose.
Miasaka	29.97	761.1	29.99	761.8	78.2	25.7	75	wsw.	.....	.....	2	0	1 s	.....	sw.	0	0	clear	K. Masusaki.
Miyako	29.70	755.9	29.87	758.7	70.0	21.1	87	e.	0.2	0.1	.....	.....	10 s	.....	.....	0.126	3.2	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.79	756.0	29.98	761.5	77.5	25.3	87	sw.	2.7	1.2	.....	0	2 s	.....	.....	0.005	0.1	clear	S. Takehayashi.
Niigata	29.83	757.7	29.86	758.4	77.2	25.1	83	se.	6.0	2.7	.....	.....	10ks;s	.....	w.	0	0	covered	Satoo & Tomikawa.
Nobira	29.85	758.0	29.86	758.4	73.3	22.9	93	nnw.	1.9	0.8	.....	0	8 s	.....	.....	0.010	0.3	cloudy	Yoshino & Midzushina.
Numazu	29.92	759.9	29.95	760.8	77.9	25.5	82	ssw.	.....	.....	6	.....	10 ks	.....	w.	0	0	cloudy	R. Kaneda.
Osaka	29.94	760.4	29.95	760.8	78.7	25.9	80	w.	7.8	3.5	.....	0	5 s	.....	.....	0	0	fair	H. Omura.
Sakai	29.89	759.1	29.90	759.3	78.8	26.0	79	wsw.	.....	.....	2	.....	9 ks	.....	wsw.	0.012	0.3	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.82	757.5	29.97	761.2	78.9	26.1	79	ssw.	.....	.....	2	0	6 s	.....	.....	0	0	fair	S. Sakano.
Tokei Obs'y, Yeddo	29.84	758.0	29.92	759.9	75.6	24.2	84	ssw.	11.2	5.0	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.91	759.6	29.96	760.9	79.2	26.2	72	s.	0.6	0.3	.....	0	0	.....	.....	0.074	1.9	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.94	760.5	30.13	765.3	74.2	23.4	59	ese.	17.5	7.8	.....	2c;ck	4 k;ks	.....	ese.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.39	619.5	30.08	764.0	56.8	13.8	84	nne.	0.9	0.4	.....	4 c	1 k	.....	ne.	inap.	inap.	½ cloudy	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.4	82.0	27.8	91	e.	0.9	0.4	.....	.....	9 n	.....	n.	0	0	very cloudy	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	81	27.2	88	e.	.....	.....	1	3 c	3 k	se.	w.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.52	749.9	29.52	749.9	64.8	18.2	.....	wsw.	.....	.....	6	.....	.....	.....	.....	0.157	4.0	.....	
Groningen	29.35	745.5	29.41	746.9	61.3	16.3	.....	wsw.	.....	.....	6	.....	.....	.....	.....	0.110	2.8	.....	
Helder	29.38	746.2	29.38	746.2	61.7	16.5	.....	sw.	.....	.....	6	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.48	748.7	29.48	748.7	62.8	17.1	67	wsw.	.....	.....	6	.....	.....	.....	.....	0.154	3.9	.....	
Utrecht	29.48	748.7	29.52	749.9	64.2	17.9	69	sw.	.....	.....	5	.....	5	.....	.....	0.063	1.6	cloudy	H. van der Brun
Sub-series.																			
Batavia, Java	29.90	759.5	.....	.....	77.4	25.2	87	s.	0	0	.....	.....	9	.....	.....	0.028	0.7	.....	Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.10	739.2	29.17	740.8	66.6	19.2	48	e.	11.2	5.0	.....	.....	7	.....	.....	0.016	0.4	.....	
Brono	29.55	750.6	29.59	751.6	57.2	14.0	49	se.	.....	.....	6	.....	9	.....	.....	0	0	.....	
Christiania	29.23	742.4	29.37	746.0	59.0	15.0	87	e.	20	9	.....	.....	10	.....	.....	0.713	18.1	.....	
Gjesvær	29.97	761.2	29.99	761.8	43.7	6.5	.....	ese.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.70	754.3	29.74	755.5	57.9	14.4	51	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	69.4	20.8	82	ene.	6.3	2.8	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.04	762.9	30.12	765.1	72.0	22.2	83	se.	9.8	4.4	.....	.....	10	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.6	30.00	762.0	67.3	19.6	55	ssw.	21.0	9.4	.....	.....	2	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	71.6	22.0	66	ne.	13.0	5.8	.....	.....	4	.....	.....	0.024	0.6	.....	
Saint Paul de Loando	29.84	757.9	30.04	763.1	71.1	21.7	71	w.	.....	.....	2	.....	10	.....	.....	0	0	.....	
San Salvador, Congo	28.59	715.9	30.05	763.2	70.3	21.3	69	w.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
Serra da Estrella	25.21	640.3	29.89	759.1	52.2	11.2	67	sw.	4.3	1.9	.....	.....	9	.....	.....	0.004	0.1	.....	
RUSSIAN.																			
Akmolinski	28.61	726.8	29.65	753.0	67.5	19.7	56	s.	13	6	.....	.....	10 n	.....	.....	0.098	2.5	.....	Major K. Lasarew.
Archangel	29.88	759.0	29.90	759.5	47.7	8.7	74	nnw.	13	6	.....	.....	9 ks	.....	.....	blank	blank	.....	Capt. Sseliwerstow
Asburada	30.04	763.0	29.95	760.6	81.7	27.6	69	nnw.	13	6	.....	0	1 k	.....	.....	0	0	.....	
Astrakhan	30.15	765.8	30.08	764.0	74.7	23.7	37	sse.	11	5	.....	0	7 s	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.02	762.6	29.98	761.4	77.0	25.0	73	s.	22	10	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.45	748.0	29.94	760.4	59.9	15.5	42	ne.	4	2	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.38	746.2	29.83	757.7	65.1	18.4	74	calm	0	0	.....	0	5 ks	.....	.....	0.094	2.4	.....	
Dorpat	29.40	748.3	29.69	754.2	67.1	19.5	74	ene.	7	3	.....	8 ck	0	.....	.....	0.394	10.0	.....	Observatory.
Ekaterinburg	29.00	736.7	29.94	760.5	64.9	18.3	49	w.	4	2	1	9c;es;ck	0	.....	.....	0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.45	747.9	29.67	758.7	82.4	28.0	28	s.	7	3	.....	0	1 k	.....	.....	0	0	.....	
Irkutsk	28.45	722.7	30.11	764.7	46.2	7.9	82	nw.	.....	.....	3	.....	10	.....	.....	inap.	inap.	.....	
Kasalinsk	.....	.....	.....	.....	66.9	19.4	75	nw.	13	6	.....	0	5 k;n	.....	.....	.....	.....	.....	
Kasan	29.71	754.7	29.97	761.2	73.2	22.9	49	sw.	7	3	.....	10c;cs	0	.....	.....	0	0	.....	Observatory.
Kem	29.96	760.9	30.01	762.2	45.5	7.5	73	[illegible]	9	4	.....	.....	10 k	.....	.....	0	0	.....	
Kertch	29.79	756.7	29.82	757.3	77.5	25.3	52	calm	0	0	.....	2 c	0	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kief	29.19	741.5	29.79	759.7	77.4	25.2	38	sse	9	4	.....	c	3 ks	.....	.....	0	0	.....	Observatory.
Koslov	29.49	749.0	29.97	761.3	75.7	24.3	47	calm	0	0	.....	0	1 s	.....	.....	0	0	.....	
Libau	29.45	748.0	29.47	748.6	66.5	20.3	81	s.	.....	.....	6	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	29.09	754.0	29.88	758.9	84.0	28.9	21	ese.	13	6	.....	.....	5	.....	.....	0	0	light clouds	Meteorological Obs'y.
Moscow	29.40	746.8	29.84	758.0	77.9	25.5	46	wsw.	9	4	.....	0	1 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.81	757.2	29.88	759.0	84.2	29.0	32	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdiakow.
Nikolaievsk-on-the-Amoor	.....	.....	.....	.....	56.7	13.7	67	ssw.	18	8	.....	0	7 n	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.81	757.2	29.95	760.8	64.8	18.2	81	nw.	5.6	2.5	.....	.....	10 n	.....	.....	0.071	1.8	.....	Physical Observatory.
Petro-Alexandrovsk	29.63	752.7	29.97	761.2	76.3	24.6	28	nw.	4	2	.....	0	0	.....	.....	0.012	0.3	.....	
Petrozavodsk	29.66	753.4	29.85	758.3	55.0	12.8	76	ne.	9	4	.....	.....	10	.....	.....	0.138	3.5	.....	Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.26	743.1	29.73	755.2	68.5	20.3	84	sw.	13	6			9 n			0.031	0.8	raining.	
Poti	29.83	757.6	29.86	758.4	80.6	27.0	85	nw.	4	2		0	6 s			0	0		
St. Petersburg	29.77	756.2	29.80	756.8	61.5	16.4	73	ene.	9	4			10 kn			inap.	inap.	light clouds	Central Physical Obs'y.
Samarkand	27.56	699.9	29.93	760.3	72.7	22.6	35	nw	3.4	1.5		0	0			0	0		
Semipalatinsk	29.21	742.0	29.85	758.1	66.4	19.1	32	n.	9	4			5			0	0		Major Lasarew
Sevastopol	29.68	753.8	29.88	759.0	78.8	26.0	65	wnw.	11	5		2 cs	0			0	0		
Staroi Bykhov	29.24	742.8	29.76	756.0	81.3	27.4	64	s.	20	9		5 ck	0			0	0	light clouds	
Tashkend Laboratory	28.28	718.4	29.87	758.7	78.4	25.8	32	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.55	725.1	29.88	759.0	84.9	29.4	30	s.	7	3		0	0			0	0		Physical Observatory.
Vernoe	27.44	697.0	29.88	758.9	64.0	17.8	61	calm	0	0			10 n			0	0		
Viatka	29.18	741.2	29.79	756.6	68.9	20.5	70	sw.	9	4			6			0	0		
Warsaw	29.30	744.1	29.71	754.6	61.3	16.3	80	w.	11	5			10 km			0.031	0.8	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	30.00	762.1	30.29	769.4	51.4	10.8	58	ne	2	1			6			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.80	757.0	29.90	759.5	74.8	23.8	63	ne.	10.5	4.7		0	2			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.75	755.7	29.81	757.2	82.2	27.9	31	se.	4.3	1.9		3	2	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.7	29.80	757.0	68.0	20.0	32	s.	8.7	3.9		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.89	759.1	73.9	23.3	31	sw.	14.3	6.7		0	2			0	0	clouds.	The Staff.
Murcia, Met. Obs'y	29.78	756.4	29.91	759.8	84.4	29.1	46	sse.	4.5	2.0		4	3	se.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.04	737.6	29.80	756.9	62.6	17.0	63	se.	19.2	8.6		8 k	6 n	nw.	nw.	0.894	22.7	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.74	729.9	29.62	752.4	55.8	13.2	96	ssw.	16.1	7.2			10			0.461	11.7	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.7	30.06	763.4	77.8	25.4	88	se.	0.7	0.3		1 cs	1 k;sk	w.	e.	inap	inap.	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.3	75.0	23.9	96	n.	3.3	1.5			10 n			1.063	27.0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.1	30.03	762.5	72.9	22.7	65	w.	10.3	4.6		4	3	wnw.	wsw.	0	0		Capt. O. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	762.0	30.09	764.3	80.6	27.0	84	calm	0	0		2 s	2 k	e.	se.	0.008	0.2	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.91	759.8	29.95	760.8	51.4	10.8	61	ne.			4		0			0	0		
Umea	29.82	757.4	29.87	758.7	56.5	13.6	62	e.			6		10			0.669	17.0		
Hernosand	29.70	754.3	29.75	755.6	56.1	13.4	87	e.			4		10			0.016	0.4		
Stockholm	29.35	745.6	29.53	750.1	57.6	14.2	98	ene.			7		10			0.004	0.1		
Wisby	29.33	744.9	29.39	746.4	62.6	17.0	84	ese.			4		10			0	0		
Sub-series.																			
Upsala	29.45	747.9	29.53	750.1	57.7	14.3	94	e.	9.4	4.2			10		e.	0.642	16.3	raining	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.53	724.7	29.94	760.5	68.7	20.4	31	sw.			3		1			0.276	7.0	clear	The Observatory.
Turkish.																			
Constantinople			29.92	759.9	82.9	28.3	56	sw.	8	3.5			3		n.	0	0		The Observatory.
Valona			30.16?	766.1?	88.2	31.2		s.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.8	87.1	30.6	56	sw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.86	758.4	29.94	760.5	58.5	14.7	67	nw.	12	5.4		0	4 ks		nw.	0.26	6.6	fair	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.20	767.1	49	9.4	86	nw.	6	2.7		0	0			0.09	2.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.22	640.6	30.02	762.5	56	13.3	60	ne.	5	2.2		0	0			inap.	inap.	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.38	695.4	30.23	767.8	48	8.9	80	s	6	2.7		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.17	766.3	70.0	21.1	68	w.	8	3.6		0	hz.			0	0	dense haze.	Edward A. Beals.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	69	20.6	84	nw.	9	4.0			10 s		w.	0.19	4.8	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	70.0	21.1	78	calm	0	0		0	0			0	0	clear	D. J. Young.
Baltimore, Maryland	29.94	760.5	29.99	761.7	70	21.1	76	nw.	8	3.6		3 k	5 k		n.	0.08	2.0	cloudy	Geo. W Feiger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	67.0	19.4	73	n.	21	9.4		0	8 k		w.	0.05	1.3	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.71	754.6	29.73	755.1	43.0	6.1	94	n.	28	12.5			10 n		n.	0.7?	18.7	light rain	Geo. Chernick.
Bennett, Fort, Dakota	28.59	726.2	30.18	766.6	52.0	11.1	55	se.	2	0.9		0	2 s			0	0	clear	A. Pritchard
Benton, Fort, Montana	27.43	696.7	30.27	768.8	57	13.9	77	calm	0	0		0	5 s			0	0	fair	Thomas Morgan.
Bismarck, Dakota	28.32	719.3	30.12	765.0	49	9.4	80	se.	2	0.9		4 c	0	w.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	29.78	756.4	29.81	757.2	67	19.4	90	w.	17	7.6		0	8 ks		nw.	0.01	0.3	cloudy	J. T. Elker.
Boise City, Idaho	27.30	693.4	30.07	763.8	52	11.1		n.	1	0.4		0	sk.			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.61	752.1	29.76	755.9	64.0	17.8	68	nw.	16	7.2		2 c	5 k	w.	w.	inap.	inap.	fair	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.05	763.3	72.0	22.2	84	n.	6	2.7		8 cs	2 s	s.		0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.40	746.7	30.13	765.3	51.2	10.7	76	nw.	5	2.2		0	9 ks		nw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.19	716.0	30.17	766.3	44	6.7	100	w.	2	0.9		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.78	756.4	30.18	766.6	69.7	20.9	67	ne.	12	5.4		0	hz.			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.89	759.2	30.09	764.3	55.0	12.8	98	w.	4	1.8		0	3s;sk			0	0	dense smoke	O. D. Stewart.
Cape Henry, Virginia	29.93	760.2	29.95	760.7	72.0	22.2	71	sw.	14	6.3		4 k	0	s.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	71.0	21.7	84	nw.	20	8.9			10 s		w.	0.05	1.3	cloudy	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.0	53	11.7	80	n.			2	0	sk.		n.	inap.	inap.	clear	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	73.2	22.9	76	ne.	4	1.8		2 c	0	sw.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.08	764.0	30.13	765.3	73.0	22.8	84	w.	7	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.08	764.0	71.0	21.7	71	sw.	2	0.9		0	fg			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.14	765.5	71.0	21.7	76	sw.	5	2.2		0	hz.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.30	617.2	30.16	766.1	54.1	12.3	77	w.	1	0.4		0	0			0.01	0.3	clear	E. McGovern.
Chicago, Illinois	29.56	750.8	30.24	768.1	60.5	15.8	53	ne.	8	3.6		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	72	22.2	84	nw.	8	3.6			9ks;s		w.	0.14	3.6	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.54	750.3	30.19	766.8	66.0	18.9	73	ne.	4	1.8		0	7 k		nw.	0.13	3.3	fair	L. Dunne.
Cleveland, Ohio	29.42	747.3	30.14	765.5	61.3	16.3	60	n.	7	3.1		0	7 k		n.	0.02	0.5	fair	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.33	745.0	30.17	766.3	58	14.4	80	n.	4	1.8		0	0			0.03	0.8	clear	D. Cuthbertson.
Concho, Fort, Texas	28.26	717.8	30.16	766.1	62.5	16.9	73	w.	3	1.3		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T.	27.09	688.1	30.21	767.3	51	10.6	66	se.	2	0.9		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.58	751.3	30.24	768.1	57	13.9	93	ne.	4	1.8			fg.			0	0	dense fog	R. R. Martin.
Davis, Fort, Texas	25.41	645.4	30.11	764.8	58	14.4	84	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.36	720.3	30.10	764.5	61	16.1	72	e.	7	3.1			10 s			0	0	cloudy.	D. Moore.
Deadwood, Dakota	25.58	649.7	30.14	765.5	52	11.1	86	calm	0	0		6 c	0	sw.		0	0	fair	F. Des Willson.
Delaware Breakwater, Del	29.91	759.7	29.93	760.2	70	21.1	90	nw.	16	7.2			10 s		nw.	0.05	1.3	cloudy	T. S. Townsend.
Denver, Colorado	24.98	634.5	30.09	764.3	58.0	14.4	72	s.	3	1.3		0	1 s			0.03	0.8	clear	F. M. Neal.
Des Moines, Iowa	29.38	740.2	30.27	768.8	58	14.4	69	n.	3	1.3		10 cs	0	n.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.48	748.8	30.17	766.3	52.0	11.1	86	w.	7	3.1		3 ck	0	w.		inap.	inap.	clear	E. R. Brace.
Dodge City, Kansas	27.65	702.3	30.20	767.1	61	16.1	100	e.	1	0.4			10 n		s.	0.04	1.0	light rain	J. H. Bryce.
Dubuque, Iowa	29.55	750.6	30.25	768.3	54.5	12.5	83	nw.	1	0.4		0	2 s			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.45	748.0	30.19	766.8	55	12.8	69	w.	14	6.3		0	1 ks			0	0	clear	N. B. Conger.
Eastport, Maine	29.50	749.3	29.56	750.8	59.0	15.0	93	sw.	10	4.5			10s;fg		sw.	inap.	inap.	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.46	697.5	30.15	765.8	63	17.2	73	ne.	16	7.2			10 s		ne.	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.49	672.8	30.14	765.5	64.0	17.8	58	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.43	747.5	30.14	765.5	57	13.9	64	n.	11	4.9		4 k	0	n.		0.09	2.3	fair	C. A. Shaw.
Escanaba, Michigan	29.56	750.8	30.22	767.6	47.5	8.6	81	sw.	3	1.3		0	8 s		n.	0	0	cloudy	George Heathcote.
Galveston, Texas	30.08	764.0	30.12	765.0	80	26.7	82	e.	4	1.8		hz.	hz.			0	0	dense haze.	E. O'C. Macinerney.
Grand Haven, Michigan	29.59	751.6	30.25	768.3	51.0	10.6	80	ne.	2	0.9		0	0			0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.37	644.4	29.97	761.2	71.6	22.0	36	nw.	4	1.8		1 c	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.01	762.2	30.03	762.7	75.0	23.9	76	sw.	32	14.3		hz.	sk.			0	0	clear	R. M. Crawford.
Helena, Montana	26.02	660.9	30.19	766.8	57	13.9	69	ne.	3	1.3		0	0			0	0	cloudy	T. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.84	732.5	30.22	767.6	51.9	11.1	92	s.	5	2.2		3 c	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.41	747.0	30.19	766.8	59.4	15.2	75	ne.	2	0.9		0	4 k		n	0.10	2.5	fair	C. F. R. Wappenhans.
Indianola, Texas	30.07	763.8	30.10	764.5	77.2	25.1	89	n	13	5.8		6 cs	0	se.		0	0	fair	I. A. Reed.
Jacksonville Florida	30.11	764.8	30.15	765.8	70.0	21.1	84	e.	3	1.3		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.60	751.8	30.25	768.3	61.0	16.1	84	n.	2	0.9		4 k	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	81.0	27.2	79	ne.	12	5.4		1 c	3k;s		ne.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.00	762 0	30.02	762.5	72.5	22.5	71	w.	16	7.2		2 ck	hz.	w.		0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.10	739.1	30.12	765.0	69.2	20.7	76	sw.	6	2.7		4 c	0	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.45	748.0	30.22	767.6	54	12.2	80	nw.	1	0.4			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.37	746.0	30.25	768.3	60	15.6	65	n.	3	1.3		5c; k	0			0	0	fair	T. S. Outram.
Lewiston, Idaho	29.25	742.9	30.08	764.0	63.5	17.5	49	se.	1	0.4		4 cs	sk.			0	0	fair	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.07	763.8	75	23.9	71	calm	0	0		0	hz.			0	0	dense haze	W. U. Simons.
Los Angeles, California	29.57	751.1	29.96	761.0	63	17.2	73	ne.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.56	750.8	30.11	764 8	62	16 7	87	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	L. M. Dey.
Lynchburg, Virginia	29.31	744.5	29.99	761.7	78	25.6	58	sw.	1	0.4		0	0			inap.	inap.	clear	Louis Duane.
Mackinaw City, Michigan	29.57	751.1	30.22	767.6	53.0	11.7	80	sw.	2	0.9		0	0			0.05	1.3	clear	D. B. Notson.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	77.0	25.0	74	sw.	28	12.5		0	hz.			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.82	655.8	30.22	767.6	50	10.0	48	e.	5	2.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.47	748.5	30.19	766.8	52.0	11.1	69	w.	12	5.4			10 ks		w.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.10	764.5	72	22.2	64	sw.	2	0.9		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.53	750.0	30.27	768.8	55	12.8	74	n.	3	1.3		0	6 ks		nw.	0	0	fair	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.11	764.8	30.15	765.8	72.5	22.5	87	n.	1	0.4		6 cs	1 s	w.		0	0	fair	H. U. Jones.
Montgomery, Alabama	29.92	760.0	30.15	765.8	68	20.0	87	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.17	740.9	30.16	766.1	44	6.7	83	s.	7	3.1		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.42	594.9	29.58	751.3	29.0	— 1.7	100	nw.	58	25.9			10n;fg		nw.	1.72	43.7	sleeting	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.11	764.8	72.0	22.2	84	n.	3	1.3		4k;hz	0	nw.		0	0	dense haze	L. N. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.83	757.7	65	18.3	63	nw.	16	7.2		3 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut.	29.80	756.9	29.85	758.2	65	18.3	73	n.	4	1.8		3 c	0	nw.		0.04	1.0	clear	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	78.0	25.6	77	e.	1	0.4		7cs;ck	hz.	nw		0	0	fair	M. Herman.
New York, New York	29.73	755.1	29.90	759.4	63	17.2	68	w.	19	8.5		3 cs	4 s	w.	w.	0.06	1.5	fair	H. J. Penrod.
Norfolk, Virginia	29.91	759.7	29.94	760.5	72.5	22.5	75	sw.	8	3.6		2 ck	2 s	n.		inap.	inap.	fair	Wm. Davis.
North Platte, Nebraska	27.34	694.4	30.22	767.6	56.6	13.7	82	e.	5	2.2		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	56	13.3	86	calm	0	0			sk.			0	0	dense smoke	J. Dascomb.
Omaha, Nebraska	29.13	739.9	30.30	769.6	61.0	10.1	73	calm	0	0			10 s		nw.	0	0	cloudy	A. Pollak
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.75	755.6	30.07	763.8	53.0	11.7	66	n.	14	6.3			10s;n		n.	0.25	6.3	light rain	J. G. Linsley
Palestine, Texas	29.62	752.3	30.17	766.3	73.0	22.8	82	s.	4	1.8		5 cs	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	70.8	21.6	84	n.	6	2.7		5 c	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	29.87	758.7	29.97	761.2	66	18.9	84	nw.	12	5.4			10 s		w.	0.10	2.5	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.25	463.5	30.23	767.3	36	2.2	66	ne.	14	6.3		0	1 s			0.24	6.1	clear	H. Hall.
Pittsburg, Pennsylvania	29.35	745.5	30.14	765.5	57.0	13.9	86	w.	5	2.2		0	0			0.09	2.3	clear	G. C. Schaeffer.
Poplar River, Montana					52	11.1	66	sw.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.47	748.5	30.14	765.5	50.5	10.3	86	w.	4	1.8		0	6 ks		nw.	0	0	fair	M. H. Perry
Portland, Maine	29.64	752.8	29.69	754.1	62	16.7	72	w.	7	3.1		0	0			0.04	1.0	clear	W. W. Eichelberger.
Portland, Oregon	29.99	761.7	30.06	763.5	59.5	15.3	90	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.94	633.5	30.04	763.0	56	13 3	51	sw.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.70	754.4	29.73	755.1	65.5	18.6	87	w.	12	5.4		0	9 ks		sw.	0.04	1.0	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.64	752.8	29.99	761.7	64	17.8	48	n.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGaurn.
Roseburg, Oregon	29.55	750.6	30.10	764.5	49	9.4	91	n.	2	0.9		0	sk.			inap.	inap.	dense smoke	J. J. Naury.
Sacramento, California	29.90	759.4	29.97	761.2	64.5	18.1	58	nw.	4	1.8		0	0			inap.	inap.	clear	J. A. Barwick
St. Louis, Missouri	29.63	752.6	30.22	767.6	63.0	17.2	81	n.	7	3.1		3 ck	0	w.		0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.96	761.0	29.99	761.7	56	13.3	80	ne.	4	1.8		0	5 s			inap.	inap.	fair	A. P. Leavitt.
St. Paul, Minnesota	29.38	746.2	30.23	767.8	51.0	10.6	93	sw	1	0.4			fg.			0	0	dense fog	P. F Lyons.
St. Vincent, Minnesota	29.16	740.7	30.03	762.7	48	8.9	93	sw.	7	3.1			10 ks			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.78	654.8	30.03	762.7	69	20.6	45	se.	4	1.8		2 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.87	758 7	29.94	760.5	67.0	19.4	90	n.	1	0.4		0	0			0	0	clear	F. R. Day.
Sanford, Florida	30.06	763.5	30.11	764.8	73	22.8	76	ne.	3	1.3		8 c	0	ne.		0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.49	749.0	30.16	766 1	61	16.1	72	ne.	13	5.8		0	3 ks		ne.	inap.	inap.	clear	B. F. Hough.
Sandy Hook, New Jersey	29.88	758.9	29.91	759.7	65.0	18.3	73	nw.	32	14.3		8 k	0	nw.		0.03	0.8	cloudy	B. A. Blundon
San Francisco, California	29.91	759.7	29.98	761.5	63.5	17.5	70	n.	1	0.4		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.06	763 5	30.15	765.8	74	23.3	71	sw.	4	1.8		0	sk.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.58	675.1	30.19	766.8	49	9.4	93	w.	3	1.3		3 cs	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	72.5	22.5	67	s.	3	1.3		hz.	hz.			0	0	dense haze	E. N. Meekins.
Sill, Fort, Indian Territory	28.95	735.3	30.17	766.3	68	20.0	78	n.	12	5.4		0	1 s		ne.	0	0	clear	W M. Mattingly
Sitka, Alaska	30.06	763.5	30.12	765.0	49	9.4	83	w.	2	0.9		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.65	753.1	30.12	765.0	72.9	22.7	84	calm	0	0		0	fg.			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.06	763.5	30.10	764.5	76.5	24.7	72	w.	16	7.2		hz.	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.10	764.5	63	17.2	73	e.	2	0.9		0	sk			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.54	750.3	30.24	768.1	59	15.0	75	ne.	6	2.7		0	hz.			0	0	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.20	690.9	30.16	766.1	60	15.6	72	s.	3	1.3		0	0			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					72	22.2	76	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.49	749.0	30.17	766.3	54	12.2	67	n.	5	4.0		0	0			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskka, Alaska	29.54	750.3	29.57	751.1	50	10.0	93	se.	8	3.6			10 n			0.48	12.2	light rain	Samuel Applegate.
Verde, Fort, Arizona					65	18.3	33	se.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.88	758.9	30.13	765.3	70.8	21.6	90	s.	4	1.8			hz.			0	0	dense haze	James Keneally.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming.																			T. M. Ambler.
Washington, D. C.	29.89	759.2	30.00	762.0	70.1	21.2	76	nw	8	3.6		0	6 s		nw.	0.66	1.5	fair	B. M. Purssell.
West Las Animas, Colorado	26.29	667.8	30.11	764.8	60.5	15.8	92	sw.	4	1.8		3 cs	2 s		nw.	0.30	7.6	fair	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.04	763 0	30.09	764 3	73.0	22.8	76	w.	8	3.6		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.97	735.8	30.26	768.6	57.8	14.3	75	se.	2	0.9		7 k	0			0	0	fair	E. H. Thompson.
Yuma, Arizona	29.66	753.4	29.80	756.9	79.6	26.4	54	calm	0	0		0	1 s		e	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		w.			2		8 n		n	0	0	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			46.0	7.8	52	calm	0	0			10s;ks			0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5	80.0	26.7	80	calm	0	0		8 ck	0	ne.		0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	79	26.1	82	se.			2	4 ck	0			0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	77	25.0	84	calm			0	9 cs	1 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76.5	24.7	88	ne			1	sk.	1 ks		ne.	0.03	0.8	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
[illegible] Factory B. A.	30.14	765.5	30.20	767.1	45.0	7 2	92	w.	9	4.0		2 c	2 s	w.	w.	0	0	fair	Fortescue & W[illegible]

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 37° 01', E. 20° 07'	29.98	761.5	86	30.0	65	sse.			1							sm'h		blue sky.
H. M. S. Coquette, N. 39° 38', E. 19° 56'	29.99	761.7	80	26.7		calm			0		4	calm				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.11	764.8	78.5	25.8	84	wsw.			2		3	wsw.						d. clouds.
H. M. S. Iris, Suez Canal, Egypt	29.84	757.9	81	27.2	87	nw.			2		0							blue sky.
H. M. S. Tenedos, St. Johns, N. F.	29.87	758.7	69	20.6	95	sw.			1-3		3		sw.					squally.
U. S. Navy Yard, Portsmouth, N. H *	29.67	753.6	60	15.6	76	nw.	20	8.9			2		nw.	0.20	5.1			fair.
U. S. S. Alliance, Magdalen Ids., Gulf St. Lawrence	29.56	750.8	64	17.8	89	wsw.			3		8			h'vy	hv'y	mod.	wsw.	cloudy.
U. S. S. Galena, New York, N. Y	29.85	758.2	68	20.0	74	wnw.			3		5					mod	nw.	fair.
U. S. S. Jamestown, Gibraltar, Mediterranean	29.97	761.2	75	23.9	60	se.			2		5		sse.			sm'h		hazy.
U. S. S. Kearsarge, N. 40° 01', W. 41° 30'	30.27	768.8	78	25.6	82	ssw.			1		8		sw.			sm'h		cloudy.
U. S. S. Lancaster, Villefranche, France	29.86	758.4	79	26.1	78	s.			1		0					long	s.	clear.
U. S. S. Portsmouth, Portsmouth, N. H	29.65	753.1	61	16.1	88	nw.			4		2		nw.					clear.
U. S. S. Powhatan, New York Bay, N. Y	29.92	760.0	65	18.3	78	nw.			5-6		5							clear?
U. S. S. Quinnebaug, Yarmouth Roads, Eng			62	16.7	77	w.			6-7		5		w.			mod.	w.	fair
U. S. S. Saratoga, New London, Conn	29.81	757.2	66	18.9	100	sw.			3		2		sw.	light	light	sm'h		fair.
U. S. S. Swatara, Halifax, N. S.	29.74	755.4	58	14.4	94	sw.			4		10		sw.	mod.	mod.	sm'h		drizzling.
U. S. S. Vandalia, Vercheres, Quebec, Canada	29.92	760.0	57	13.9	93	n.			3		2							fair.
U. S. S. Yantic, N. 76° 30' W. 55° 40	29.51	749.5	40	4.4	91	e.			4		2					sm'h		clear.
S. S. British Crown, N. 50° 34'. W. 31° 33' †	30.12	765.0	64	17.8		wsw.			5		7		w.	o	o	mod.	w.	
S. S. British Prince, N 50° 10' W. 23° 42'*†	29.92?	760.0?	57	13.9		nnw.			4		6?		nnw.	6 h'r	6 h'r	sm'h		clear ?
S. S. Lord Clive, N. 39° 14'. W. 70° 23'†	30.04?	763.0?				sw.			4		3		nw.	2 h'r	2 h'r	sli't	sw.	fine.
S. S. Ohio, Liverpool, Eng †	29.28	743.7	54	12.2	?	wsw			6		10		w.	16 h'r	16 h'r			hazy.
S. S. Circassian, N. 56° 22', W. 29° 18'	29.72	754.9	52	11.1	86	sw.			4		9		sw.			3	sw.	raining.
S. S. Grecian, Quebec, Canada	29.81	757.2	55	12.8	74	nw.			3		4		nnw.	10 h'r	10 h'r			clear.
S. S. Nova Scotian, N. 51° 12' W. 38° 02'	30.04	763.0	60	15.6		sw.			6		10		sw.			mod.	wsw.	cloudy
S. S. Prussian, N. 42° 52', W. 63° 55'	29.78	756.4	62	16.7		ssw.			3		2		sw.	4 h'r	4 h'r	mod.	wsw.	clear.
S. S. Scandinavian, N. 42° 50', W. 60° 43'	29.88	758.9	58	14.4		sw.			2		10		wsw.	o	o	light	sw.	foggy.
S. S. Jason, N. 47° 53' W. 17° 40'			59.2	15.1		w.			5		7 k					3	wnw.	cloudy.
S. S. Alvo, N. 31° 07', W. 74° 11'*	30.11	764.8	76	24.4		ene.			3-4		3		calm	o	o	long	nne.	fine.
S. S. Andes, N. 18° 46', W. 83° 00'*†	30.05	763.3	85	29.4														
S. S. Avila, San Juan, Porto Rico, W.I. *†	30.10	764.5	84	28.9		calm			0		2		e.	o	o			
S. S. Australia, Malaga, Spain						nnw			3-6		2		nnw.	o	o	h'vy		
S. S. Dorian, N. 52° 21' W. 60° 09'	29.41	747.0	54	12.2		nnw.			7		10		nw.	sh'rs	sh'rs	mod.	sw.	threatening.
S. S. Furnesia, New York, N. Y †	29.90	759.4	69	20.6	95	wnw.			4		5		nnw.	o	o			fair.
S. S. Galatia, N. 31° 30', E 32° 06'*†	29.90?	759.4?	82	27.8	91	wnw.			2		0			o	o	sm'h		clear.
S. S. Llandaff City, N. 40° 30' W. 63° 30' †	29.98?	761.5?	74	23.3		wsw.			6		4		w.	1 h'r	1 h'r	mod.	w.	clear.
S. S. Cephalonia, N. 51° 10', W. 13° 04'	29.71	754.6	59	15.0	82	nw			5		3		nnw.	1 h'r	1 h'r	mod.	n.	d. clouds.
S. S. Bothnia, N. 41° 29', W 59° 34'	29.90	759.4	77	25.0	95	wsw.			4		10		wsw.	5 h'r	5 h'r	mod.	sw.	rain squalls
S. S. Pavonia, N. 51° 07' W. 14° 14'*	29.80	756.9	59	15.0	82	nw.			6		4		nw.	4 h'r	4 h'r	r'gh	wnw.	squally.
S. S. Scythia, N. 45° 16', W. 43° 56'	30.21	767.3	67	19.4	84	sse			1		4		calm	o	o	sm'h		clear
S. S. Samaria, N. 49° 44' W. 30° 40'			59	15.0		w.			5		8		wsw.	2 h'r	2 h'r	long	w.	cloudy.
S. S. Canada, N. 49° 33', W. 12° 36'	29.58?	751.4?	69.8?	21?		nnw.			5		k		w.	o	o		w.	clear.
S. S. Ville de Bordeaux, N. 38° 05', W. 31° 27' *†	30.35?	770.9?	77	25.0		ene.			3		6		e.	3 h'r	3 h'r	long	n.	fair.
S. S. Bohemia, N. 48° 45', W. 30° 40'						var.			5		5		w.	o	o	long	w.	fine.
S. S. Gellert, N. 40° 04', W. 65° 57'	29.88	758.9	76	24.4	95	sw.			4		7		w.	o	o	sm'h	w.	cloudy.
S. S. Silesia, N. 41° 35', W. 63° 45'			60	15.6		wsw.			3		8		wsw.	3 h'r	3 h'r	mod.	wnw.	hazy.
S. S. Westphalia, N. 50° 26', W. 17° 24'	29.74	755.4	59	15.0	88	nnw.			5-7		5		nnw.	rain	rain	mod.	nw.	fair.
S. S. Rhaetia, N. 52° 30', E. 3° 01'*	29.26?	743.2?	56	13.3		wsw.			7		10		wsw.	8 h'r	8 h'r	r'gh	sw.	stormy.
S. S. Virginian, N. 42° 08', W. 52° 37'*	30.03	762.7	72	22.2		s.			4		5		s.	sh'rs	sh'rs	sm'h		fine.
S. S. Archimedes, N. 32° 41', W. 68° 46'	30.08	764.0				wnw.			1		4		wnw.	o	o	sm'h		fine.
S. S. Chalmette, N. 34° 20', W. 76° 21'†	30.01	762.2	78	25.6		sw.			5		0			o	o	sm'h	sw.	clear.
S. S. Alleghany, N. 38° 42' W. 74° 09' †	29.93	760.2	74	23.3		wsw.			2		4		sw.	o	o	light	se.	fair.
S. S. Archimede, Palermo, Sicily†	30.12?	765.0?	88	31.1		ne.			2		0			o	o			clear.
S. S. City of Merida, N. 29° 48', W. 79° 30'*†	30.06?	763.5?	82	27.8		ese			2		2		ne.	1 h'r	1 h'r	light	ne.	fine.
S. S. Cienfuegos, N. 32° 21', W. 74° 48'*.	30.01?	762.2?	80	26.7		nne.			2		0			3 h'r	3 h'r	h'vy	nne.	hazy.
S. S. Canada, N. 41° 48', W. 50° 00'						se			3		4			o	o	sm'h		clear.
S. S. England, N. 49° 20', W. 30° 10'	30.10	764.5				w.			5		5		w.	o	o	high	w.	fair.
S. S. Holland, N. 46° 35', W 26° 11'	30.21	767.3	66	18.9		n.			4		8		n.	1 h'r	1 h'r	mod	n.	cloudy.
S. S. The Queen, N. 50° 41', W. 18° 08'	29.79?	756.7?	61	16.1		nnw.			4		2		n.	sh'rs	sh'rs	mod.	nw.	clear.
S. S. Donau, N. 48° 34' W. 42° 36'	30.08	764.0				ssw.			5		10		sw.	o	o	long	sw.	threatening.
S. S. Elbe, N. 48° 26', W. 38° 11'	30.20?	767.0?	59.9	15.5	95	sw.			4		10		sw.	o	o	mod.	sw.	covered.
S. S. Gen. Werder, N. 50° 35', W. 21° 35'	29.98	761.5				nw.			4-5		5		nw.	5 h'r	5 h'r	long	nw.	fair.
S. S. Neckar, N. 50° 37', W. 23° 12'	30.05	763.3	61.0	16.1	71	nw.			4		7		nw.	o	o	mod.	nw.	fair.
S. S. Oder, N. 52° 36', E. 3° 23'	29.39	746.5	63.5	17.5		wsw.			7		7		sw.	o	o	high	sw.	fair.
S. S. Ohio, N. 42° 05' W. 55° 54'	29.94	760.5				sw.			4		5		ssw.	4 h'r	4 h'r	mod	sw.	fair
S. S. Rhein, N. 49° 42' W. 13° 30'	29.84?	757.9?	60.8	16.0		n.			4		4?		n.	1 h'r	1 h'r	mod.	nw.	cloudy?
S. S. Salier, N. 41° 40', W. 65° —'*	29.84	757.9	72.5	22.5	50	wsw.			6		5		wsw.	2 h'r	2 h'r	high	wsw.	fair.
S. S. Strassburg. N. 41° 25', W. 64° 03'	29.87	758.7	68.0	20.0	89	w.			2		3		w.	2 h'r	2 h'r	4	w.	clear.
S. S. City of Augusta, N. 33° 21', W. 78° 08' †	30.18?	766.6?				wsw.			6		6		sw.	o	o	sm'h		fair.
S. S. Muriel, Saint Thomas, W.I.	29.98?	761.5?	84	28.9		ene.			2		0			h'vy	h'vy	sm'h		clear.
S. S. Orinoco, New York, N. Y *†	29.98	761.5	70	21.1		nw.			6		3		nw.	½ h'r	½ h'r	light	nw.	clear.
S. S. Belgenland, N. 40° 53', W. 65° 07'†	29.95?	760.7?	66	18.9	94	wsw.			4		5		wsw.	o	o	sm'h	sw.	fair.
S. S. Nederland, N. 50° 10'. W. 3° 17'			61	16.1	94	w.			5		5		w.	6 h'r	6 h'r	mod.	w.	fair.
S. S. Rhynland, Antwerp, Belgium	29.39	746.5	58	14.4	100	s			4		5		s.	o	o			fair.
S. S. Pennland, N. 49° 20', W. 17° 56'	29.99	761.7	57	13.9	69	wnw.			5		1		wnw.	o	o	mod.	nnw.	clear.
S. S. Vaderland, N. 49° 45', W. 13° 30'			59	15.0		n.			5		3		wnw.	1 h'r	1 h'r	high	var.	squally.
S. S. Waesland, N. 43° 42', W. 55° 30'	29.95?	760.7?	66	18.9		s.			4		9		sw.	3 h'r	3 h'r	mod.	w.	drizzling.
S. S. Zeeland, Antwerp, Belgium *†	29.30	744.2	55	12.8		wsw.			6		10		wsw.	8 h'r	8 h'r			heavy rain.
S. S. P. Caland, N. 50° 26' W. 2° 27'	29.57	751.1	61.5	16.4	83	w.			8		6		w.			4-6	w.	stormy.
S. S. W. A. Scholten, N. 45° 11' W. 51° 57'	29.92	760.0	59.9	15.5	100	wsw.			5		10		wsw.	13 h'r	13 h'r	4	sw.	foggy.
S. S. Belize, Kingston, Jamaica, W.I.			82	27.8		calm			0		0			o	o	sm'h		clear.
S. S. Valencia, LaGuayra, Venezuela †	29.87	758.7	85	29.4	72	nw.			3		2		ne.	o	o	mod.	ne.	clear.
S. S. State of Georgia, N. 55° 14', W. 5° 35' †	29.29	744.0	59	15.0		n.			3		8		n.	o	o	sm'h		cloudy.
S. S. State of Indiana, N. 44° 06' W. 58° 10'*†	29.75	755.6	60	15.6		sw.			4		10		sw.	8 h'r	8 h'r	mod.	sw.	light rain.
S. S. State of Nevada, New York, N. Y †	29.90	759.4	64	17.8		nw.			6		1		nw.	1 h'r	1 h'r			clear.
S. S. State of Alabama, N. 39° 35', W. 63° 30'*	29.80?	756.9?	75	23.9		w.			4		5		w.	o	o	sm'h		
S. S. Thingvalla, Christiana, Norway †	29.49?	749.0?				se.			3		10		se.	10 h'r	10 h'r			covered.
S. S. Romano, N. 46° 19', W. 16° 50'			58	14.4		nne.			5		5		nne.	o	o	h'vy	n.	
S. S. Salerno, N. 42° 19', W. 62° 11'*†	29.95	760.7	67	19.4		wsw.			2		1		wsw.	o	o	long	sw.	clear.
S. S. Dominion, N. 55° 20' W. 13° 58'*†	29.70	754.4	53	11.7		nw.			4		5		nnw.			r'gh	nnw.	fair.
S. S. Lake Manitoba, N. 54° 48', W. 41° 40'	29.64	752.8	54	12.2		sw.			5		5		sw.	o	o	long	sw.	fair.
S. S. Daniel Steinmann, N. 41° 00', W. 67° 18'*†	29.90?	759.4?	69	20.6		sw.			5		8		wsw.	1 h'r	1 h'r	mod.	wsw.	cloudy.
S. S. Plantyn, N. 47° 58', W. 30° 07'	30.11	764.8							4		4		nw.	o	o	sm'h	n.	fair.
S. S. Saxon, Boston, Mass. †	29.75	755.6				wnw.			6		10							
S. S. Adriatic, N. 47° 10', W. 45° 45' *†	30.15?	765.8?	55	12.8		sw.			5				sw.	o	o	sm'h	w.	foggy.
S. S. Celtic, N. 42° 54', W. 48° 27' †	30.04	763.0	60	15.6	88	s.			4		10		s.	o	o	sm'h		foggy.
S. S. Iowa, N. 45° 45', W 54° 36' †	29.86	758.4	60	15.6		s.			4		10		s.	5 h'r	5 h'r	light	ssw.	dense fog.
S. S. Algiers, N. 28° 15', W. 88° 09'*†	30.20?	767.1?				ese.			5								nw.	squally
S. S. City of Alexandria, N. 25° 33'. W. 80° 03'*†	30.08	764.0	84	28.9		e.			4							mod.		raining.
Bg. Abbie Clifford, N. 39° 16', W. 71° 02'†	30.04?	763.0?	72	22.2		sw.			6		4		wnw.			mod	wsw.	fair.
Schr. Arthur Burton, N. 37° 50', W. 74° 30'†	29.97	761.2				*w.			2		2		wsw.	o	o	r'gh	sw.	clear.
Schr. Abbie H Gheen, Philadelphia, Pa †	29.99	761.7	68	20.0		nnw.			2									cloudy.
Bk. Aquidneck, N. 28° 52', W. 66° 54'*†	30.20?	767.1?	92?	33.3?		se.			1				s.	o	o	light	ne.	clear.
Bg. Alcira, N. 26° 08', W. 74° 20'	30.13	765.3	83	28.3		ese.			3		10		se.	2 h'r	2 h'r	mod.	n.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, Barbadoes, W. I †	29.98	761.5	83	28.3	.....	e.	.....	.....	2	.....	2	.....	e.	1 h'r	1 h'r	.....	.....	clear.
Bk. Aureola, N. 32° 45', W. 21° 00'†	30.15	765.8	76	24.4	.....	nne.	.....	.....	5	.....	10	.....	ne.	5 h'r	5 h'r	hv'y	n.	raining.
Bk. Adelaide, N. 33° 57', W. 59° 31'*†	30.28?	769.1?	.....	.....	.....	s.	.....	.....	6	.....	2	.....	s.	3 h'r	3 h'r	mod	s.	clear.
Bg. Belle of the Bay, N. 37° 55', W. 75° 51' †	29.95	760.7	.....	.....	.....	wnw.	.....	.....	5	.....	8	.....	nw.	0	0	r'gh	sw.	threatening.
S. S. Burswell N. 39° 57', W. 54° 20'*†	30.14?	765.5?	79	26.1	.....	ssw.	.....	.....	3	.....	4	.....	sw.	2 h'r	2 h'r	sl't	ssw.	fair.
S. S. Cannonbury, N. 0° 32,' W. 42° 04'*†	30.10?	764.5?	.....	.....	.....	se.	.....	.....	3	.....	7?	.....	se.	0	0	light	se.	overcast?
Bk. Celestina, N. 38° 03', E. 0° 18'*†	30.01?	762.2?	.....	.....	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	sm'h	.....	clear.
Bk. Childwall, N. 49° 20', W. 6° 50'*	29.63	752.6	60	15.6	71	w.	.....	.....	8	.....	10	.....	wsw.	rain	rain	cross	sw.	misty.
Bk. Cato, N. 51° 19', W. 15° 15' †	29.79	756.7	.....	.....	.....	nw.	.....	.....	5	.....	2	.....	nw.	.....	.....	long	n.	clear.
Bk. Don Justo, N. 57° 12', W. 2° 46'	.....	.....	.....	.....	.....	sse.	.....	.....	.....	.....	.....	.....	sse.	1 h'r	1 h'r	r'gh	s.	raining.
S. S. State of Nebraska, N. 44° 48', W. 53° 07'*†	29.96	761.0	62	16.7	.....	ssw.	.....	.....	3	.....	5	.....	ssw.	0	0	sm'h	.....	dense fog
S. S. D. J. Foley, N. 27° 25', W. 74° 34'*†	30.20?	767.1?	82	27.8	87	sse.	.....	.....	1	.....	10	.....	s.	rain	rain	short	se.	squally.
Bkt. David A. Preston, Boston, Mass	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	2	.....	nw.	0	0	.....	.....	
S. Dora, N. 47° 07', W. 28° 30'*†	30.29?	769.4?	61.7	16.5	.....	nw.	.....	.....	4-5	.....	5	.....	nw.	0	0	.....	nnw.	fair.
Bk. David Stewart, N. 7° 15', W. 44° 04'	.....	.....	87	30.6	.....	se.	.....	.....	3	.....	3	.....	se.	0	0	mod.	se.	hazy.
S. E. J. Spicer, Antwerp, Belgium	.....	.....	64	17.8	89	ssw.	.....	.....	7	.....	10	.....	ssw.	sq'lls	sq'lls	.....	.....	cloudy.
Schr. Edith R. Seward, Doboy Island, Gat	30.01?	762.2?	74	23.3	.....	wsw.	.....	.....	1	.....	1	.....	calm.	0	0	.....	.....	smoky.
Bk. E. D. Bigelow, N. 26° 24', W. 86° 34' †	30.05?	763.3?	90?	32.2?	.....	e.	.....	.....	2	.....	2	.....	e.	0	0	sm'h	.....	clear.
Bk. Edmund Phinney, N. 10° 30', W. 45° 18†'	29.97	761.2	80	26.7	.....	wsw.	.....	.....	1	.....	2	.....	.....	4 h'r	4 h'r	cross	var.	clear.
Bk. E. L. Pettingill, N. 17° 16', W. 37° 23' *†	30.20?	767.1?	78	25.6	.....	ene.	.....	.....	4	.....	8	.....	e.	0	0	r'gh	e.	cloudy.
S. Festina Lente, off Metis, Canada	29.63	752.6	51	10.6	.....	nw.	.....	.....	4	.....	4	.....	w.	0	0	.....	.....	clear.
U. S. Fish Com. S. S. Fish Hawk, New Bedford, Mass†	29.80	756.9	67	19.4	.....	wsw.	.....	.....	3	.....	3	.....	sw.	0	0	.....	.....	clear.
Bg. George, N. 30° 20', W. 61° 35'*†	30.20?	767.1?	80	26.7	.....	ssw.	.....	.....	3	.....	2	.....	s.	0	0	mod.	se.	fair.
Bk. Galeon, Plymouth, Eng†	29.57?	751.1?	61	16.1	.....	wsw.	.....	.....	6	.....	3	.....	wsw.	5 h'r	5 h'r	.....	.....	blue sky
Bk. Grey Eagle, N. 32° 54', W. 55° 10'*†	30.15	765.8	.....	.....	.....	sw.	.....	.....	1	.....	1	.....	sw.	0	0	mod.	sw.	clear.
Bg. Giles Loring, N. 30° 19', W. 72° 25'*†	30.25?	768.3?	84	28.9	75	nw.	.....	.....	2-4	.....	4	.....	nw.	3 h'r	3 h'r	.....	.....	
S. Hedwig, N. 38° 12', E. 4° 51'	30.00?	762.1?	78.4	25.8	77	s.	.....	.....	2	.....	1	.....	var.	0	0	2	wsw.	
Schr. Isabel Alberto, N. 27° 47', W. 73° 58' †	30.07	763.8	.....	.....	.....	se.	.....	.....	5	.....	10	.....	s.	h'vy	h'vy	mod.	ne.	squally.
Bkt. Josephine, N. 28° 27', W. 69° 32'†	30.12	765.0	83	28.3	67	sse.	.....	.....	3	.....	8	.....	se.	0	0	mod.	sse.	cloudy.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	29.96	761.0	85	29.4	83	ene.	.....	.....	2	.....	2	.....	e.	0	0	.....	.....	clear.
Schr. Jennie N. Huddell, off Fire Island, N. Y†	29.93	760.2	69	20.6	80	nw.	.....	.....	5	.....	2	.....	nnw.	light	light	short	s.	fair.
Bg. Josefa, Bristol, Eng†	29.03	737.3	.....	.....	.....	w.	.....	.....	6	.....	6	.....	wnw.	6 h'r	6 h'r	.....	.....	squally.
Bkt. Kryolith, Ivigtut, Greenland*†	29.58?	751.3?	.....	.....	.....	ese.	.....	.....	6	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
Bkt. Lady Hincks, N. 48° 05', W. 14° 20' *†	29.80	756.9	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	
Bkt. Louise Adelaide, N. 1° 05', W. 26° 05'†	30.06?	763.5?	83	28.3	.....	sse	.....	.....	4	.....	3	.....	s.	0	0	chop	s.	fair.
Bg. L. & W. Armstrong, St. Pierre, Martinque, W. I*†	29.98	761.5	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	.....	.....	clear.
S. S. Madrid, Genoa, Italy†	29.82	757.4	70	21.1	90	ne.	.....	.....	3	.....	8	.....	sse.	2 h'r	2 h'r	.....	.....	fair.
Bk. Mohican, N. 7 30', W. 37° 19'	29.80?	756.9?	80	26.7	.....	sw.	.....	.....	6	.....	10	.....	ssw.	12 h'r	12 h'r	r'gh	se.	cloudy.
Schr. Norena, N. 10° 40', W. 62° 25' *†	29.99	761.7	.....	.....	.....	ne.	.....	.....	3	.....	2	.....	ne.	0	0	light	ne.	fine.
Bk. Orpheus, N. 59° 45', W. 11° 02'	29.55	750.6	50	13.3	.....	n.	.....	.....	4	.....	6 k	.....	nne.	0	0	sm'h	.....	fair.
Bk. Ottawa, N. 43° 35', W. 59° 58'	29.80	756.9	58	14.4	.....	sw.	.....	.....	4	.....	9	.....	sw.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. Paramita, N. 41° 11', W. 66° 10' †	29.76	755.9	62	16.7	.....	var.	.....	.....	6	.....	0	.....	wsw.	2 h'r	2 h'r	small	wsw.	squally.
Sch. Rollin Sanford, N. 28° 16', W. 85° 12'†	30.13	765.3	.....	.....	.....	e.	.....	.....	4	.....	5	.....	ne.	0	0	long	e.	fair.
Bg. Rising Sun, San Juan, Porto Rico, W. I†	30.01	762.2	85	29.4	.....	e.	.....	.....	4	.....	2	.....	e.	0	0	.....	.....	clear.
Schr. S. B. Hubbard, Mayport, Fla†	30.19	766.8	80	26.7	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Bgt. Sunlight, Demerara, British Guiana*†	29.96	761.0	.....	.....	.....	sw.	.....	.....	2	.....	4	.....	ese.	.....	.....	.....	.....	raining.
Bk. Scud, N. 25° 28', W. 68° 45'*†	30.16?	766.1?	87	30.6	.....	ese.	.....	.....	4	.....	5	.....	ese.	0	0	sm'h	.....	fine.
Bk. Southern Belle, N. 37° 18', W. 13° 30†	29.95	760.7	72	22.2	.....	wsw.	.....	.....	5	.....	8	.....	w.	.....	.....	h'vy	nw.	cloudy.
Bg. Teneriffe, Sydney, C. B*	29.73	755.1	.....	.....	.....	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	.....	.....	
S. S. Tower Hill, N. 47° 08', W. 33° 00'*†	30.30?	769.6?	.....	.....	.....	nw.	.....	.....	3	.....	4	.....	nw.	.....	.....	mod.	nw.	fair.
Schr. Viola Reppard, Baltimore, Md†	30.02	762.5	72	22.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	4 h'r	4 h'r	.....	.....	fair.
Bgt. Willie, N. 12° 24', W. 37° 40'*†	30.00	762.0	84	28.9	.....	sse.	.....	.....	2	.....	3	.....	sse.	1 h'r	1 h'r	long	ne.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.10	764.5	68.2	20.1	84	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Opal, Elephant bay, Benguela	30.04	763.0	69	20.6	85	wsw.	.....	.....	1	.....	4	wsw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.14	765.5	49.2	9.6	100	se.	.....	.....	5-7	.....	10	.....	.....	.....	.....	5	se.	raining.
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.08	764.0	52	11.1	93	sse.	30	13.4	.....	.....	10	.....	sse.	1.05	26.7	r'gh	se.	raining.
U. S. S. Nipsic, Montevideo, Uruguay*	30.12	765.0	52	11.1	93	se.	.....	.....	5-6	.....	10	.....	.....	.....	.....	r'gh	.....	overcast.
S. S. Hevelius, S. 26° 37', W. 44° 38'*†	30.30	769.6	71	21.7	.....	nne.	.....	.....	5	.....	6	.....	nnw.	0	0	sm'h	.....	fair.
Bk. Great Surgeon, S. 4° 06', W. 25° 19'*†..	30.24	768.1	78	25.6	.....	se.	.....	.....	5	.....	4	.....	se.	0	0	short	se.	hazy.
S. Gatherer, S. 24° 15', W. 34° 00' *..	30.21	767.3	71	21.7	75	ene.	.....	.....	2	.....	1	.....	ene.	0	0	sm'h	s.	clear
Bk. Godeffroy, S. 28° 29', W. 53° 33'	30.21	767.3	46.8	8.2	82	se.	.....	.....	4	0	5 k	ne.	se.	3 h'r	3 h'r	mod.	var.	fair.
S. S. Olbers, S. 7° 56', W. 33° 34'	30.15	765.8	78	25.6	82	se.	.....	.....	5	.....	4	.....	se	½ h'r	½ h'r	r'gh	se.	fair.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.02	762.5	60	15.6	.....	w.	.....	.....	2-4	.....	6	nnw.	.....	.....	.....	.....	.....	squally.
Bg. John Wesley, Rio de Janeiro, Brazil*†	30.16	766.1	72	22.2	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Possiet Harbor, China	29.88	758.9	67	19.4	89	ese.	.....	.....	1	.....	8	e.	.....	.....	.....	2	se.	d clouds.
H. M. S. Flying Fish, N. 37° 35', E. 121° 29'	29.92	760.0	72	22.2	90	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Magpie, N. 5° 16', E. 119° 16'	29.82	757.4	81.4	27.4	85	ssw.	.....	.....	1	.....	0	.....	.....	.....	.....	1	se.	misty.
H. M. S. Mutine, N. 28° 25', W. 118° 10'	29.99	761.7	70	21.1	.....	nnw.	.....	.....	4	.....	10	.....	.....	.....	.....	3	nnw.	overcast.
H. M. S. Zephyr, N. 41° 46', E. 140° 43'	29.83	757.7	72	22.2	90	wnw.	.....	.....	3	.....	10	.....	.....	.....	.....	2	sw.	raining.
H.P.M. S. Tamega, Macao, China	29.89	759.1	85.6	29.8	78	calm.	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.05?	763.3?	77	25.0	84	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Essex, Nagasaki, Japan	29.99	761.7	82	27.8	83	calm	.....	.....	0	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Monocacy, Roze Island, Corea	29.82	757.4	75	23.9	80	nnw.	.....	.....	2	.....	7	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Palos, Hong Kong, China	29.88	758.9	80	26.7	100	ese.	.....	.....	1	.....	2	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Pensacola, N. 21° 07', W. 158° 30'*	29.92	760.0	77	25.0	82	ene.	.....	.....	3	.....	2	.....	ene.	0	0	sm'h	.....	clear.
U. S. S. Richmond, Yokohama, Japan	29.93	760.2	78	25.6	86	ssw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Coptic, N. 29° 24', E. 128° 04'	29.96	761.0	83.0	28.3	79	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	blue sky.
S. S. Oceanic, N. 41° 18', E. 155° 52'	30.07	763.8	75	23.9	95	calm	.....	.....	0	.....	0	.....	s.	0	0	3	var.	d. clouds.
S. S. Oregon, N. 40° 26', W. 124° 15' †	30.03	762.7	52	11.1	100	nnw.	.....	.....	2	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Ancon, San Francisco, Cal†	30.03	762.0	61	16.1	82	calm	.....	.....	0	.....	8	.....	s.	.....	.....	.....	.....	smoky.
S. S. State of California, N. 38° 20', W. 123° 10†	30.00	762.0	52	11.1	93	nw.	.....	.....	3	.....	10	.....	nw.	.....	.....	sm'h	nw.	dense fog.
S. S. Queen of the Pacific, N. 40° 46', W. 124° 13'†	30.08	764.0	55	12.8	93	nnw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	foggy.
S. S. City of New York, N. 31° 08' W. 140° 34'†	30.19?	766.8?	69	20.6	65	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	mod.	ne	clear.
S. S. City of Tokio, N. 36° 53', E. 143° 14'†.	30.15?	765.8?	79	26.1	82	sw.	.....	.....	6	.....	5	.....	sw.	0	0	small	sw.	misty.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.96	761.0	84	28.9	75	calm	.....	.....	0	.....	0	.....	.....	0.1	3.	sm'h	.....	clear.
S. S. Colima, N. 9° 48', W. 84° 43' †	29.93	760.2	78	25.6	78	n.	.....	.....	3	.....	9	.....	nne.	0.12	3.0	small	ssw.	raining.
S. S. Grenada, N. 31° 22', W 119° 35'†	30.04	763.0	67	19.4	89	nw.	.....	.....	1	.....	2	.....	nw.	0	0	light	nw.	clear.
S. S. Benledi, N. 8° —', E. 106° 30' *	29.91	759.7	82.5	28.1	77	w.	.....	.....	4	.....	5?	.....	nw.	0	0	sm'h	.....	cloudy.?
S. Mt. Washington, N. 38° 30', W. 136° 20' *†	30.22?	767.6?	67.3	19.6	87	calm	.....	.....	0	.....	10	.....	.....	5 h'r	5 h'r	mod.	.....	cloudy.
S. S. St. David, N. 36° 32', E. 145° 10'*†	30.08	764.0	80.3	26.8	91	ssw.	.....	.....	6	.....	3	.....	sw.	0	0	short	sw.	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 58', E. 156° 05'	29.88	758.9	84.3	29.1	81	se.	.....	.....	2	.....	7	.....	.....	.....	.....	sm'h	.....	thund'r st'm
U. S. S. Hartford, Callao Bay, Peru *..	29.98	761.5	61	16.1	94	calm	.....	.....	0	.....	10	.....	.....	3 h'r	3 h'r	.....	.....	cloudy.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	61	16.1	88	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, Callao, Peru*	29.96	761.0	61	16.1	94	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	60	15.6	88	s.	.....	.....	1	.....	10	.....	sse.	.....	.....	.....	.....	misty.
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.6	59	15.0	100	sse.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	.....	misty.
S. S. City of Sydney, Sydney, N. S. W *†	29.67	753.6	61	16.1	77	sw.	.....	.....	2	2 c	0	sw.	.....	.....	.....	.....	.....	clear.
S. S. Zealandia, Sydney, N. S. W	29.76	755.9	51	10.6	86	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.	Character.	Direction from.	
District No. 4—South Pacific.—Continued.																		
Bk. Chas. Stewart, S. 25° 30′, W. 77° 00′†	30.29	769.4	55	12.8	.....	se.	.....	.....	4	.....	2	.....	se.	0	0	long	sw.	clear.
S. David Crockett, S. 14° 52′, W. 120° 24′*	29.98	761.5	73.5	23.1	76	e.	.....	.....	6	.....	5	.....	e.	3 h'r	3 h'r	long	ese.	d. clouds.
S. Sovereign of the Seas, S. 52° 57′, W. 84° 34′*†	29.70	754.4	43	6.1	100	nnw.	.....	.....	6	.....	10	.....	nnw.	3 h'r	3 h'r	sll't	w.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 17° 40′, E. 49° 35′	30.16	766.1	.....	.....	.....	sse.	.....	.....	2	.....	8	ese.	.....	.....	.....	4	sse.	d. clouds.
H. M. S. Euryalus, S. 17° 55′, E. 55° 00′	30.09	764.3	73	22.8	81	se.	.....	.....	2	.....	4	calm	.....	.....	.....	1	se.	d. clouds
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	77	25.0	86	wnw.	.....	.....	1	.....	1	sse.	.....	.....	.....	1	sse.	blue sky.
H. M. S. Woodlark, Bahrein Islands, Arabia	29.71	754.6	92.5	33.6	67	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, S 1° 45′, E. 105° 02′	29.89	759.2	82	27.8	87	ssw.	.....	.....	2	.....	10	.....	calm	mod.	mod.	sm'h	.....	cloudy.
Bk. Pilgrim, S. 19° 35′, E. 70° 30′*†	30.20	767.1	.....	.....	.....	se.	.....	.....	4	.....	1	.....	se.	0	0	long	.....	clear.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 4, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.99	761.8	79.2	26.2	62	e.			1		0			0	0	clear	Roziere.
Algiers			29.97	761.1	79.9	26.6	55	w.			7		0			0	0	clear	Thève.
La Calle			29.95	760.6	85.6	29.8	66	nw.			2		3			0	0	pretty fair	Fonfrède.
Tunis			29.99	761.8	98.2	36.8	17	sw.			3		2			inap.	inap.	clear	Delord.
Saida			30.03	762.7															Pérès.
Tebessa			30.04	763.0	95.0	35.0	37	sw.			3		3			0	0	pretty fair	St. Martin.
Geriville					89.6	32.0	14	n.			1		1			0	c	very fair	Forfert.
Laghouat			30.03	762.7	97.9	36.6	21	se.			5		2			inap.	inap.	fair	Abraham.
Biskra			29.98	761.4	104.4	40.2	14	e.			1		1			0	0	very fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.18	766.6	44.0	6.7	86	ssw.	8	3.6			2 kn			0.048	1.2	fair	Charles Todd, F.R.A.S.
Melbourne, Victoria	29.67	753.6	29.76	755.9	48.4	9.1	89	wsw.	20	8.9			10			0.53	13.5	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.89	759.2	80.1	26.7	40	sw.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.1	29.91	759.8	73.8	23.2	41	se.	6.3	2.8			2			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.60	726.5	29.95	760.6	81.5	27.5	45	s.			3		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.43	722.0	29.71	754.6	69.3	20.7	71	e.			2		7			0	0		The Staff.
Lemberg	29.04	737.5	29.99	761.8	70.3	21.3	51	sw.			2		0			0	0		Dr. T. Stanecki.
Pola	29.85	758.1	29.95	760.8	82.0	27.8	51	sse.			2		3			0	0		I. R. Hydrographic Office.
Szathmar	29.51	749.6	29.96	761.0	78.8	26.0	39	s.			2		0			0	0		Joseph Midlinszky, S. J
Szegedin	29.68	753.9	29.95	760.7	79.7	26.5	38	n.			1		4			0	0		Karl Stu..cel.
Trieste	29.91	759.7	30.01	762.2	76.8	24.9	56	w.			1		3			0	0		Royal Academy.
Vienna	29.12	739.7	29.80	757.0	76.3	24.6	48	sse.			4		3			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.40	746.7	29.50	749.3	55.0	12.8	62	wnw.	21	9.4			6			0.055	1.4	d. clouds	W. Boswell.
Armagh, Observatory	29.50	749.3	29.73	755.1	55.8	13.2	78	sw	9	4.0			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.70	754.4	55.9	13.3	69	w.	32	14.3			10					overcast	John Hartnup.
Bolton, Sharples	29.16	740.7	29.69	754.1	55.3	12.9	71	w.	12	5.4			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.25	742.9	29.65	753.1	58.0	14.4	86	nw.			3		5			0.04	1.0	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	87.0	30.6	58	se.			1		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.61	752.1	29.71	754.6	60.0	15.6	57	w.			2.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.55	750.6	29.72	754.9	61.6	16.4	53	nw.			1		7					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.68	753.9	29.80	756.9	59.0	15.0	59	wnw.			4		7					d clouds	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	71.0	21.7	58	n.			1		3					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.69	754.1	29.72	754.9	53	11.7	80	sw.			1		7			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.05	763.3	30.11	764.8	75.9	24.4	88	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.75?	755.6?	29.95?	760.7?	56.2	13.4	47	ene.			2		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.56	750.8	29.73	755.1	61.9	16.6	56	wnw.			4		7					d. clouds	The Staff.
Guernsey	29.59	751.6	29.89	759.2	59.0	15.0	65	wnw.			1		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.71	754.6	29.75	755.6	60.7	15.9	46	nw.	15	6.7			7					d. clouds	The Staff.
Leicester, Museum	29.46	748.3	29.70	754.4	59.3	15.2	55	nw.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.97	761.2	84.6	29.2	78	e.			3		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.09	764.3	78.0	25.6	83	se.			2		10			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.21	741.9	29.73	755.1	57.2	14.0	66	w.			4		4					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.52	749.8	29.75	755.6	58.7	14.8	65	w.			4		7					d. clouds	The Staff.
Plymouth	29.79	756.7	29.86	758.4	61.7	16.5	67	wnw.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.37	746.0	29.47	748.5	49.5	9.7	95						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.83	757.7	29.89	759.2	90.8	32.7	45	n.			1		1					misty	W. H. Lyne.
Sheffield			29.57	751.1	59.0	15.0	82	w.								0	0		W. F. Cooper.
Siloth Rectory	29.59	751.6	29.62	752.3	58.2	14.6	73	nnw.			4		7			0.090	2.3	showery	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.70	754.4	55.0	12.8	71						10					overcast	W. C. Carlisle.
Strathfield Turgiss					60.4	15.8	62	nw.			1.0		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.86	758.4	29.94	760.5	62	16.7	61	w.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.80	756.9	54.6	12.6	87	sw.	10	4.5			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.62	752.3	30.01	762.2	89.2	31.8	32	sw.	1.2	0.5			0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.02	762.5	30.06	763.5	47	8.3	70	w.	3	1.3		5 c	0	n.		0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	49	9.4	72	w.	11	4.9		0	0			0.470	11.9	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.01	762.2	30.07	763.8	44	6.7	83	w.	6	2.7		0	0			0.28	7.1	clear	G. A. Blair.
Cornwall, Ontario	29.86	758.4	30.06	763.5	46.3	7.9	86	w.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.96	761.0	30.01	762.2	44.0	6.7		w.			1					0	0	d. clouds	H. A. Johnson.
Edmonton, N. W. T.	27.92	709.2			38	3.3	45	s.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.00	762.0	30.02	762.5	45	7.2	86	w.	10	4.5		5 cs	2 ks	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.26	743.2	30.11	764.8	43	6.1	93	nw.	10	4.5		0	5 ks		n.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.09	764.3	30.16	766.1	44.1	6.7	70	nw.	3.0	1.3		c				0.150	3.8	d. clouds	Prof. Thos. Harrison
Grand Manan, N. B	30.10	764.5	30.16	766.1	49	9.4	93	sw.	10	4.5		0	0			0.06	1.5	clear	J. Chipman Seeley
Granton, Ontario	28.95	735.3	30.04	763.0	48.0	8.9	93	s.	2	0.9		3 c	0	s.		0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.00	762.0	30.13	765.3	50	10.0	80	w.	4	1.8		0	0			0.095	2.3	clear	A. Allison.
Hamilton, Ontario	29.62	752.3	30.01	762.2	51.9	11.1	80	w.			2	5 c	0	w.		0.30	7.6	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.75	755.6	30.09	764.3	56	13.3	74	s.	13	5.8		5 k	0	sw.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.02	762.5	30.06	763.5	53.8	12.1	78	wsw.			4	3 k		sw.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.18	741.2	30.09	764.3	46.2	7.9	96	sw.			1	2 cs		nw.		0.40	10.2	blue sky	E. B. Reed.
Medicine Hat	27.98	710.7	30.30	769.6	44	6.7	76	se.	4	1.8		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.87	758.7	30.08	764.0	50	10.0	77	sw.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.81	757.2	30.06	763.5	43.3	6.3	98	ssw.				0	0			0.36	9.1	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.22	742.2	29.91	759.7	54	12.2	86	s	16	7.2		5 k	5 ks	sw.	sw.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.39	746.5	30.13	765.3	45.7	7.6	77	w.			1	2 c	0	w.		0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.39	746.5	30.07	763.8	60	15.6	77	s.	12	5.4		5 c	0	sw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.43	747.5	30.06	763.5	60	15.6	78	sw.	9	4.0		2 ck	5 k	sw.	sw.	0	0	cloudy	M. Payne.
Que Appelle, N. W. T.	27.99	710.9	30.34	770.0	33	0.6	96	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.71	754.6	30.07	763.8	46	7.8	93	w.	2	0.9		10 k	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.47	748.5	29.93	760.2	46	7.8	93	se.	1	0.4		5 ck	0	w.		0	0	fair	W. H. McIntyre.
St. Andrews, N. B	30.08	764.0	30.13	765.3	45	7.2	83	nw.	6	2.7		0	0			0.08	2.0	clear	
St. John, N. B	29.99	761.7	30.14	765.5	45.0	7.2	84	n.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	29.51	749.5	29.76	755.9	54	12.2	93	n.			3	0	0			0.04	1.0	clear	The Commandant.
Saugeen, Ontario*	29.23	742.4	29.93	760.2	53	11.7	93	sw.	12	5.4			10 ks			0	0	cloudy	
Stratford, Ontario	28.77	730.7	30.04	763.0	50.9	10.5	87	sw.	5.0	2.2		2 cs	0	nw.		0	0	blue sky	J. J. Macgregor, M. A.
St. Pierre, N. F.			29.76	755.9	54.7	12.6		nw.			4					0.28	7.1		The Commandant.
S. W. Point, Anticosti	29.85	758.2	29.88	758.9	50	10.0	68	nw.	6	2.7		2 k	0	w.		0	0	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	29.91	759.7	29.97	761.2	55	12.8	64	w.	10	4.5		0	0			0.10	2.5	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.69	754.1	30.08	764.0	47	8.3	83	sw.	2	0.9		5 cs	2 ks	w.	w.	0	0	fair	Magnetic Observatory.
Woodstock, Ontario	28.98	736.1	30.03	762.7	53.7	12.1	82	s.	2	0.9		0	5 ks			0	0	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S.*	30.10	764.5	30.17	766.3	48	8.9	83	n.				0	0			0.13	3.3	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	66.5	19.2	61	w.	6.7	3.0		0	0			0	0	clear	I. Garfelt.
Springbok Fontein	27.89	708.4			59	15.0	52									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.24	768.0	30.32	770.0	47.3	8.5	83	e.			1	0	0					clear	Samuel Redolez.
Iquique	30.15	765.9	30.18	766.6	59.0	15.0	76	sw.			3							cloudy	Rafael Moreno.
Niebla	29.62	752.3	29.72	755.0	45.3	7.4	85	nw.			4	0	5		nw.			raining	Federico Kühling.
Punta Caldera	30.19	766.9	30.28	769.1	54.0	12.2	86	ne.			1	7 ck		se.				fair	Manuel Tobar.
Punta Corona	30.12	765.1	30.28	769.1				e.			1	10				0	0	cloudy	Ignacio Ayala.
Valparaiso	30.09	764.3	30.23	767.9	50.0	10.0	86	se.			1							fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	24.96	634.0																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.78	756.4	29.80	757.0	77.9	25.5	94	se.	5.1	2.3			6			0.768	19.5	very cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.61	752.1	29.66	753.3	64.6	18.1	58	ssw.	18	8			5						Oversergent Fischer.
Fanoe	29.52	749.9	29.54	750.4	60.1	15.6	84	wsw.	13	6			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.63	752.5	29.67	753.6	46.8	8.2	82	calm	0	0			2						A. O. Thorlacius.
Thorshavn	29.47	748.6	29.50	749.2	52.3	11.3	88	n.	16	7			10						Overloerer Bergh.
Vestervig	29.38	746.3	29.47	748.6	59.2	15.1	82	wsw.	13	6			7						Loerer Oesterbol.
Egyptian.																			
Cairo	29.67	753.5			90.0	32.2		n.	1.8	0.8			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.35	745.4	29.99	761.5	57.2	14	98	n.			4		10		w.			raining	M. Labroue, Director.
Alençon, Normal School	29.27	743.5	29.78	756.5	61.9	16.6	80	n.			1		5 n		n.	0.110	2.8	cloudy	M. Nicot, Director.
Avignon, Normal School	29.71	754.5	29.78	756.5	79.2	26.2	63	nnw.			2		5		sw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.19	741.3	29.72	755.0	62.6	17.0	74	s.			1		10		ssw.	0.409	10.4	covered	M. Saillard, Director
Beauvais, Normal School	29.53	750.0	29.79	756.6	61.2	16.2	69	wnw.			1		10		nw.	0.094	2.4	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.90	734.0	29.79	756.7	55.8	13.2	90	nne.			1					1.008	25.0		M. Gobin, Director.
Bordeaux, Observatory	29.71	754.5	29.96	761.0	65.5	18.5	60	nw.			2		8		nnw.	0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.31	744.5	29.85	758.2	62.6	17	65	sw.			1				sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.78	756.3	30.02	762.4	66.2	19.0	72	nw.			2		4		nw.	0.008	0.2		M. de Kermarrec, Dir.
Caen, Normal School	29.72	755.0	29.84	758.0	58.3	14.6	95	w.			1		5		w.	0.059	1.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.38	746.2	29.65	753.0	57.2	14.0	98	calm			0		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.21	741.9	29.71	754.6	55.6	13.1	86	e.			1		10			0.04	1.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.44	722.3	29.74	755.5	66.6	19.2	50	w.			6		8		wsw.	0.197	5.0		M. Alluard, Director.
Cluny, Normal School	28.95	735.2	29.78	756.4	62.1	16.7	71	nw.			4			sw.	w.	0.484	12.3		M. de Villemontée, Dir.
Commercy, Normal School	28.80	733.1	29.71	754.6	56.8	13.8	91	w.			1		10 ns	w.	w.	0.08	2.	raining	Dr. Coulet, Director.
Gap, Normal School	27.33	694.2	29.78	756.3	69.8	21	51	s.			4		8 n			0.248	6.3		M. Jarach, Director.
Gréasque, du Rhone	28.74	730.1	29.82	757.3	77.4	25.2	53	se.			6		7		se.	0	0		M. Kina, Director.
Grenoble. Normal School	28.93	734.8	29.67	753.6	67.3	19.6	60	nnw.			8		n		s.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.30	718.7	29.85	758.3	55.4	13.0	77	nw.			4		8 n		se.	0.04	1.	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.65	753.0	29.92	760.0	50.9	10.5	95	s.			2		5		s.	0.12	3.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.44	747.7	30.06	763.6	61.2	16.2	88	w.			4		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.8	29.98	761.4	65.8	18.8	58	nw.			2		5		nw.	0.394	10.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.77	730.8	29.82	757.3	58.6	14.8	85	e.			1	ck	5 n			0	0	cloudy	M. André, Director
Mans, Normal School	29.52	749.7	29.82	757.4	61.0	16.1		n.			4		8		nw.	0.283	7.2	raining	M. Richard, Director
Marseille, Observatory	29.57	751.0	29.83	757.6	77.4	25.2	61	se.			6		5		se.	0.071	1.8		M. Stephan, Director.
Montlouis	24.91	630.1	29.65	753.1	62.1	16.7	15	e.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.65	753.2	29.76	755.9	76.6	24.8	93	ssw.			2		5			0	0	cloudy	M. Galzin, Director.
Nantes, Observatory	29.81	757.1	29.97	761.2	62.2	16.8	65	wnw.			2-4		9 k; kn		nw.	0.480	12.2		M. Larocque, Director.
Perpignan, Observatory	29.69	754.1	29.80	756.8	78.8	26.0	34	ne.	5.6	2.5			6		wsw.	0.024	0.6		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.2			30.2	— 1.0		w.			2		5		w.	0.551	14.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.66	727.9	29.71	754.5	59.0	15.0	83	s.			1		10 kn	s.	s.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.96	633.9			45.9	7.7	96	w.			6		8		w.	0.134	3.4	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.94	760.4	29.97	761.2	64.0	17.8	72	w.			2		5		nw.	0.047	1.2	½ cloudy	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.4	29.95	760.8	65.1	18.4	80	w.			4		5		w.	0.790	19.3	cloudy	M. Brotier, Director.
Rodez, Normal School	27.76	705.1	29.90	759.4	54.3	12.4	90	nw.			2		5		ne.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.74	755.5	29.79	756.7	65.5	18.6	77	nw.			6		5	nw.		0.004	0.1	cloudy	M. Moutilot, Dir.
Saint Maur, Observatory	29.65	753.2	29.82	757.4	54.0	12.2	93	var.					10			0.504	12.8		M. Renou, Director.
Toulouse, Observatory	29.19	741.4	29.91	759.7	62.6	17.0	64	sw.			10		10	sw.		0.307	7.8	covered	M. Baillard, Director.
Tours	29.69	754.0	29.86	758.5	62.6	17.0	75	nnw.			2		5		wnw.	1.051	26.7	cloudy	M. de Tastes.
Versailles, Observatory	29.33	744.9	29.82	757.4	55.4	13.0	93	n.			1		10			0.622	15.8	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.95	760.6	30.10	764.4	60.6	15.9	81	nw.	35.3	15.8			9 kn		w.	0.528	13.4		M. Cartier, Director.
German.																			
Ansbach	28.32	719.2	29.70	754.3	72.3	22.4	45	se.			2		8	se.		0	0		Prof. Jnedt.
Bamberg	28.97	735.7	29.80	757.0	72.0	22.2	52	s.			1		7 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.63	752.7	29.77	756.2	75.9	24.4	43	sw.			2		4			0.004	0.1		Dr. Lensch.
Breslau	29.35	745.4	29.87	758.8	73.2	22.9	41	se.			4		1			0	0		Royal University Obs'y.
Carlsruhe	29.30	744.1	29.74	755.5	61.2	16.2	76	calm			0		10	sw.		0.146	3.7	raining	Albert Senz.
Cassel	29.00	736.7	29.72	754.8	70.2	21.2	51	s.			6		8	s.		0.083	2.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.38	746.3	29.74	755.5	62.2	16.8	79	sw.			1		10			0.035	0.9		Physical Society.
Friedrichshafen	28.32	719.2	29.67	753.5	70.5	21.4	62	w.			1		3	w.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	29.60	751.8	29.69	754.1	66.9	19.4	63	sw.			5		10			0	0		E. Preiler.
Kiel	29.64	752.8	29.65	753.2	63.7	17.6	54	sw.			1		4			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.34	745.1	29.74	755.3	75.2	24.0	34	s.			2		7	ssw.		0	0		H. Leppig, Asst.
Magdeburg	29.55	750.5	29.72	755.0	74.7	23.7	42	ssw.			2		9	sw.		0	0		Weather Observatory.
Memel	29.86	758.5	29.91	759.7	68.2	20.1	59	ssw.			4	2 c							Isermann.
Munich	27.93	709.5	29.78	756.4	71.8	22.1	46	e.			2		2	s.		0	0		Central Station.
Neufahrwasser	29.83	757.6	29.84	758.0	73.0	22.8	43	s.			3		2			0	0		A. Lothes.
Neustadt, Palatinate	29.20	741.6	29.72	754.8	60.1	15.6	90	calm			0		10			0.217	5.5	raining	Dicknether.
Stuttgart	28.77	730.7	29.62	752.3	72.5	22.5	52	n.			1		6	w.		0.094	2.4		Prof. Dr. Schoder.
Wustrow	29.67	753.6	29.69	754.2	66.2	19.0	62	se.			3		10 ks			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.56	750.8	29.93	760.2	89.6	32.0		sw.			1.5		1			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.52	749.8	29.57	751.0	81.1	27.3	89	wnw.	17.0	7.6			10			0.14	3.6	gloomy	
Deesa	29.04	737.5	29.50	749.4	81.5	27.5	81	nne.	10.0	4.5			10	sw.	sw.	0.02	0.5	overcast	
Bombay	29.66	753.4	29.70	754.3	76.9	24.9	93	w.	24.0	10.7			10		w.	2.07	52.6	overcast	
Poona, Yarrowda	27.87	707.9	29.74	755.4	72.3	22.4	86	sw.	21.0	9.4			10			0.32	8.1	overcast	
Trichinopoly	29.54	750.4	29.82	757.4	93.4	34.1	39	w.	0.5	0.2			4			0	0	d. clouds	
Bellary	28.29	718.5	29.74	755.3	85.0	29.4	47	w.	16.0	7.2			5			0	0	d. clouds	
Belgaum	27.25	692.2	29.82	757.3	70.2	21.2	88	sw.	11.0	4.9			10	w.	s.	0.30	7.6	d. clouds	
Lahore	28.85	732.8	29.58	751.4	83.0	28.3	81	e.	2.0	0.9			10		e.	1.66	42.2	gloomy	
Roorkee	28.71	729.1	29.60	751.7	80.8	27.1	77	calm	1.0	0.4			10	s.		0.14	3.6	thund'r st'm	
Agra	28.95	735.3	29.51	749.5	79.7	26.5	89	e.					10		e.	0.85	21.6	thund'r st'm	
Nagpur	28.56	725.4	29.59	751.6	80.0	26.7	83	ssw.	12.0	5.4			7		w.	0.08	2.0	d. clouds	
Jubbulpore	28.22	716.9	29.56	750.9	81.2	27.3	81	w.	6.0	2.7			10		nw.	0.45	11.4	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.17	740.9	29.54	750.4	82.2	27.9	85	ese.	2.0	0.9			5	ne.		0.16	4.1	d. clouds	
Allahabad	29.20	741.7	29.50	749.4	87.7	30.9	70	ene.	6.0	2.7			6			0.19	4.8	d. clouds	
Patna	29.40	746.8	29.58	751.4	85.0	29.4	70	e.	9.4	4.2			8	e.	e.	0.22	5.6	drizzling	
Hazaribagh	27.57	700.3	29.56	750.9	77.5	25.3	83	sse.	8.3	3.7			10		s.	1.23	31.2	drizzling	
Cuttack	29.53	750.1	29.61	752.1	84.0	28.9	82	calm	0	0			5			0	0	d. clouds	
Calcutta, Alipore	29.57	751.0	29.59	751.6	79.5	26.4	93	se.	2.0	0.9			10		e.	0.47	11.4	drizzling	
Dhubri	29.51	749.6	29.63	752.6	84.7	29.3	77	calm	0	0			7		ese.	0.17	4.3	d. clouds	
Chittagong	29.58	751.3	29.67	753.6	78.3	25.7	86	calm	4.3	1.9			8			0.02	0.5	d. clouds	
Sibsagar	29.35	745.6	29.69	754.0	82.0	27.8	81	e.	2.0	0.9			6	sw.	sw.	0.50	12.7	d. clouds	
Jeypore	28.12	714.2	29.55	750.6	77.8	25.4	94	calm	3.0	1.3			10		e.	0.60	15.2	drizzling	
Zanzibar	29.99	761.7			79.3	26.3	74	nnw.	1.4	0.6			6			0	0	d. clouds	
ITALIAN.																			
Udine	29.58	751.4	29.98	761.5	75.4	24.1	51	calm	0	0			9			0	0		Prof. Giovanni Clodig.
Milan	29.46	748.2	29.96	760.9	74.1	23.4	45	ne.	4.9	2.2			9	wsw.		0	0		Prof. G. V. Schiapparelli
Padua	29.84	758.0	29.95	760.7	75.7	24.3	55	n.	4.9	2.2			7	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.03	737.4	29.91	759.7	70.5	21.4	71	nw.	3.1	1.4			8			0.248	6.3		Prof. F. F. Denza.
Genoa	29.75	755.6	29.93	760.3	72.9	22.7	72	e.	3.6	1.6			10	s.		0.047	1.2		Prof. G. M. Garibaldi.
Mondovi	28.06	712.6	29.93	760.1	67.5	19.7	65	wnw.			2		4			0	0		Prof. D. C. Bruno.
Pesaro	29.89	759.2	29.92	760.0	78.1	25.6	66	e.	22.4	10.0			1			0	0		Prof. Luigi Guidi.
Florence	29.69	754.0	29.93	760.3	80.2	26.8	34	ssw.			2		7	ssw.		0	0		Prof. Costantino Pittei.
Leghorn	29.78	756.3	29.86	758.4	77.0	25.0	58	sw.	4.9	2.2			2			0	0		Prof. P. Monte.
Rome	29.78	756.4	29.95	760.7	84.7	29.3	26	s.	9.4	4.2			5			0	0		Prof. P. Tacchini.
Lecce	29.75	755.7	29.99	761.8	81.7	27.6	50	nnw.	3.8	1.7			1			0	0		Prof. C. de Giorgi.
Cosenza	29.13	739.8	29.98	761.5	86.4	30.2	66	ssw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.71	754.7	29.90	759.5	82.6	28.1	66	se.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.6	29.99	761.7	84.0	28.9	61	ne.	3.1	1.4						0	0		Prof. G. Cacciatore.
Syracuse	29.93	760.2	29.97	761.3	84.2	29.0	48	e.	2.5	1.1			4	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R																			Prof. F. Brioschi.
JAPANESE.																			
Akita	29.83	757.6	29.87	758.6	69.4	20.8	88	calm			0		10 k		nw.	0	0	cloudy	H. Hattori.
Awomori	29.81	757.2	29.84	757.9	68.1	20.1	90	w.	inap.	inap.			10 ks			0	0	overcast	K. Ogawa.
Hamamatsu	29.85	758.2	29.88	758.9	78.9	26.1	89	w.			2	5 cs	5 s			0	0	cloudy	Sekigawa & Yamazaki.
Kagoshima	29.92	759.9	29.93	760.2	76.0	24.4	88	calm			0	0	0			0	0	clear	G. Miyanonaza.
Kanazawa	29.78	756.4	29.88	758.9	73.7	23.2	93	calm	0	0			10ck;ks			0.375	9.5	overcast	S. Endo.
Kioto	29.70	754.3	29.87	758.7	78.7	25.9	79	nne.	1.7	0.7		0	4 s;ck			0	0	fair	M. Tojima.
Kochi	29.88	759.0	29.90	759.5	78.4	25.8	87	calm	0	0		0	1 s			0	0	clear	K. Kusunose.
Miasaka	29.88	759.0	29.91	759.6	79.7	26.5	75	wsw.			2	0	0			0	0	clear	K. Masunaki.
Miyako	29.76	755.8	29.87	758.6	65.4	18.6	98	wsw.	0.5	0.2		5 c	0			0.008	0.2	fair	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.72	754.9	29.91	759.7	77.5	25.3	86	calm	0	0		0	7 s		sw.	0	0	cloudy	S. Takehayashi.
Niigata	29.84	757.9	29.87	758.7	70.4	21.3	93	e.	1.7	0.7			10 n			1.720	43.7	light rain	Satoo & Tomikawa.
Nobiru	29.83	757.6	29.84	758.0	70.6	21.4	91	ne.	7.6	3.4			10n;ks			0.320	8.1	light rain	Yoshino & Midzushina.
Numazu	29.80	756.9	29.84	757.9	78.7	25.9	81	ssw.			4	0	4 s;ks			0	0	fair	R. Kaneda.
Osaka	29.85	758.3	29.87	758.7	79.9	26.6	85	w.	7.5	3.3		0	2 s			0	0	clear	H. Omura.
Sakai	29.85	758.2	29.86	758.4	74.6	23.7	95	nne.			2		10 n		wnw.	0.959	24.6	raining	Yamawchi & Sakamoto.
Shimonoseki	29.74	755.5	29.89	759.2	78.1	25.6	83	calm			0		10 s		w.	0.126	3.2	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.73	751.1	29.80	756.9	76.3	24.6	88	s.	7.7	3.4		0	1 s			0	0	clear	The Staff.
Wakayama	29.81	757.2	29.86	758.5	79.2	26.2	81	s.	2.0	0.9		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	70.0	21.1	73	ese.	15.0	6.7			9ks;kn		se.	0	0	misty	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.07	763.8	56.8	13.8	82	nnw.	0.9	0.4			10ck;s		se.	0	0	overcast	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.4	81.0	27.2	91	ene.	1.6	0.8		0	2 ks			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata					81	27.2	91	e.			1	0	1 k		se.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.72	754.9	29.72	754.9	60.4	15.8		w.			4					0.016	0.4		
Groningen	29.59	751.6	29.65	753.0	59.5	15.3		sw.			4					0.010	0.4		
Helder	29.64	752.8	29.64	752.8	59.2	15.1		sw.			4					0	0		
Hellevoetsluis	29.69	754.1	29.69	754.1	60.6	15.9	67	wsw.			3					0	0		
Utrecht	29.65	753.1	29.70	754.3	63.3	17.4	68	sw.			3		8			0.004	0.1	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.4			80.8	27.2	75	nne.	0	0			9			0.118	3.0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.06	738.0	29.12	739.6	61.2	16.2	71	s.	3.8	1.7			10			0.024	0.6	raining	
Brono	29.22	742.2	29.26	743.2	52.9	11.6	91	se.			6		10					raining	
Christiania	29.19	741.5	29.34	745.1	60.4	15.8	81	ssw.	25	11			9			0.770	19.7	raining	
Gjæsvær	29.71	754.5	29.73	755.1	47.1	8.4		sse.			9		10						
Lodingen	29.40	746.7	29.45	747.9	47.8	8.8	69	e.			4		10			0.181	4.6	raining	
PORTUGUESE.																			
Angra, Azores					71.2	21.8	75	se.	6.3	2.8			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.19	766.8	30.28	769.0	74.1	23.4	72	se.	7.4	3.3			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.95	760.6	30.28	769.1	66.7	19.3	47	n.	17.4	7.8			4	wsw.		0.016	0.4		The Staff.
Ponta Delgada, Azores	30.35	771.0	30.43	772.8	70.2	21.2	69	ne.	4.3	1.9			3			0	0		
Saint Paul de Loanda	29.84	757.9	30.04	763.1	69.4	20.8	86	wnw.			2		10			0	0		
San Salvador, Congo	28.15	715.1	30.02	762.4	71.1	21.7	86	w.			2		0						
Serra da Estrella	25.47	646.9	30.28	769.2	43.9	6.6	87	nw.	20.6	9.2			8			1.354	34.4		
RUSSIAN.																			
Akmolinski	28.67	728.1	29.69	754.1	72.3	22.4	38	w.	11	5		4 ck	0			0.051	1.3		Major K. Lasarew.
Archangel	30.10	764.6	30.12	765.1	49.5	9.7	80	se.	18	8		0	6 ks			0	0		Capt. Sselilwerstow
Ashurada	30.00	762.1	29.91	759.7	84.2	29.0	65	nnw.	11	5		0	1 k			0	0		
Astrakhan	30.17	766.2	30.10	764.4	77.0	25.0	39	se.	11	5		0	0			0	0		Capt. Wisganow.
Baku	30.03	762.7	29.98	761.5	80.8	27.1	72	ese.	9	4		0	0			0	0		
Barnaul	29.35	745.6	29.84	758.0	60.6	15.9	39	ne.	4	2			0			0.028	0.7		Meteorological Obs'y
Bielozersk	29.50	749.3	29.96	760.9	62.1	16.7	89	ese.	9	4			9 ks						
Dorpat	29.60	751.9	29.84	757.8	66.0	18.9	69	sw.	11	5		10 ck	0			0	0		Observatory.
Ekaterinburg	28.90	734.1	29.84	757.8	63.0	17.2	49	nw.	11	5		0	3 ks			0	0		
Elizawetgrad	29.50	749.3	29.93	760.1	81.7	27.6	46	nw.	11	5		0	5 ks			0	0		Meteorological Obs'y.
Irkutsk	28.38	720.9	30.04	763.0	44.4	6.9	79	calm			0		5						
Kasalinsk					81.3	27.4	37	nw.	13	6		0	0			0	0		Observatory.
Kasan	29.74	755.4	30.00	761.9	77.0	25.0	48	wsw.	4	2		9c;ck	0			0.118	3.0		
Kem	29.89	759.1	29.94	760.4	46.8	8.2	83	e.	31	14			10 n			0	0		Lagorio & Sustyrea.
Kertch	29.88	758.9	29.90	759.5	81.5	27.5	32	wnw.	7	3		0	0			0	0		Observatory.
Kieff	29.33	744.9	29.94	760.4	72.0	22.2	56	nw.	9	4		0	3 ks			0	0		
Koslov	29.47	748.6	29.95	760.8	79.3	26.3	39	wsw.	4	2		0	3 s			0	0		E. Quass.
Libau	29.83	757.7	29.85	758.3	65.8	18.8	70	s.			5		0			0	0		Meteorological Obs'y.
Lugan	29.67	753.6	29.86	758.5	82.6	28.1	40	ese.	18	8			8			0	0		Meteorological Obs'y
Moscow	29.47	748.4	29.91	759.7	77.2	25.1	37	s.	7	3		0	6 ks			0	0		Capt. Kurdakow.
Nikolaiev	29.85	758.2	29.92	760.0	80.5	30.3	46	nw.	9	4		0	0						Iwanow.
Nikolaievsk-on-the-Amoor					55.2	12.9	96	calm	0	0			9 n			0	0		Physical Observatory.
Pekin, China	29.64	752.9	29.78	756.5	73.6	23.1	80	sw.	3.4	1.5		0	4 k			0	0		
Petro-Alexandrovsk	29.67	753.6	30.00	762.1	80.4	26.9	31	nw.	1.1	0.5		0	0			0.157	4.0	light clouds	Dr. Bergmann.
Petrozavodsk	29.62	753.2	29.81	757.2	56.5	13.6	93	se.	16	7			10						

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.51	749.6	29.99	761.8	71.6	22.0	54	w.	13	6		0	5 k			0.028	0.7		
Poti	29.87	758.6	29.90	759.4	76.5	24.7	83	ssw	4	2			10 n			0	0		
St. Petersburg	29.76	755.9	29.78	756.5	62.4	16.9	93	wnw.	9	4			9 kn			0.323	8.2		Central Physical Obs'y.
Samarkand	27.56	699.9	29.93	760.1	74.5	23.6	32	calm	0	0		0	0			0	0		
Semipalatinsk	29.15	740.5	29.78	756.5	67.8	19.9	22	wnw.	4	2			3			0	0		Major Lasarew
Sevastopol	29.74	755.5	29.95	760.7	79.7	26 5	63	nnw.	16	7		0	1 k			0	0		
Staroi Bykhov	29.39	746.5	29.93	760.2	67.1	19.5	75	nw.	11	5			10 kn			0.067	1.7		
Tashkend Laboratory	28.32	719.3	29.91	759.7	77.5	25.3	30	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.58	725.9	29.93	760.3	78.6	25.9	48	calm	0	0		0	3 ks			0	0		Physical Observatory.
Vernoe	27.43	696.6	29.90	759.4	56.1	13.4	76	ne.	2	1			10 n			0	0		
Viatka	29.46	748.3	30.08	764.1	58.8	14.9	67	n.	2	1			4			0	0		
Warsaw	29.55	750.5	29.95	760.8	70.7	21.5	44	s.	9	4		0	3 k			0	0		Astronomical Obs'y.
Yeniseisk	29.92	760.0	30.21	767.3	50.0	10.0	60	e.	4	2			7			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.80	756.9	29.90	759.4	77.0	25.0	56	wnw.	25.1	11.2		0	3			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.14	765.5	30.20	767.0	65.1	18.4	64	n.	7.8	3.5		1	8	nw.		0.760	19.3	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.16	766.1	59.0	15.0	53	n.	14.3	6.4			6			0.134	3.4	clouds	Domingo Martin.
Madrid, Royal Obs'y	27 92	709.1	30.10	764.6	67.8	19.9	38	n	9.8	4.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.88	758.9	29.98	761.5	81.3	27.4	42	wnw.	6.7	3.0		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.38	746.3	30.14	765.6	55.4	13.0	89	se.	9.8	4.4		8 k	4 k	nw.	nw.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.34	745.2	30.24	768.0	59.5	15.3	67	n.	1.8	0.8			9			0.236	6.0	almost cov	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.01	762.2	30.08	763.9	77.9	25.5	81	se.	1.8	0.8		cp;cs	k;sk	nne.	e,ne	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.5	29.80	756.9	76.5	24.7	92	se.	6.6	3.0		1 ck	9 n			0.059	1.5	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.12	764.9	30.21	767.3	71.6	22.0	40	n	10.3	4.6		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.96	761.0	30.05	763.3	80.2	26.8	89	e.	2.2	1.0		3 s	4 k	se.	se.	0.138	3.5		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.57	751.1	29.61	752.1	46.0	7.8	98	se.			6		10					raining.	
Umea	29.40	746.8	29.45	748.1	56.1	13.4	85	sw.			6		9			0	0		
Hernosand	29.41	746.9	29.46	748.2	56.1	13.4	96	sw.			4		9			1.390	35.3		
Stockholm	29.45	748.0	29.63	752.5	59.4	15.2	85	ssw.			6		8			0.303	7.7		
Wisby	29.60	751.7	29.65	753.2	64.8	18.2	67	sw.			7		0			0.134	3.4		
Sub-series.																			
Upsala	29.47	748.6	29.56	750.8	61.7	16.5	75	s.	17.0	7.6			7		sw.	blank	blank		H.H.Hildebrandesson.
Swiss.																			
Geneva	28.43	722.1	29.84	757.9	59.7	15.4	85	nw.			1		10			0.004	0.1	raining	The Observatory.
Turkish.																			
Constantinople			29.91	759.8	85.3	29.6	50	une.	14	6.5			0			0	0		The Observatory.
Valona			30.11?	764.8?	82.9	28.3		sw			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.9	86.9	30.5	56	sw.			1		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.15	765.8	30.23	767.8	51	10.6	66	sw.	3	1.3		0	hz.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.17	740.9	29.82	757.4	55	12.8	74	sw.	11	4.9		3 k	7ks	w.	w.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	30.01	762.2	51	10.6	69	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.48	698.0	30.33	770.4	47	8.3	86	e.	10	4.5		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.15	765.8	71.5	21.9	83	nw.	5	2.2		0	fg;hz			0	0	dense haze.	Edward A. Beals.
Atlantic City, New Jersey	30.19	766.8	30.20	767.1	57	13.9	80	n.	2	0.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.12	765 0	72.5	22.5	82	calm	0	0		0	hz.			0	0	clear	D. J. Young.
Baltimore, Maryland	30.18	766.6	30.23	767.8	58	14.4	64	ne.	4	1.8		hz.	0			0	0	clear	Geo. W Feiger.
Barnegat City, New Jersey	29.19	766.8	30.21	767.3	64.0	17.8	73	n.	4	1.8		0	0			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.80	756.9	29.82	757 4	43.8	6.6	78	n.	16	7.2		0	2 s;k		n.	0.3?	8.?	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.64	727.4	30.23	767.8	52.0	11.1	80	nw.	1	0.4		5 k	hz.			0	0	fair	A. Pritchard
Benton, Fort, Montana	27.55	699 8	30.39	771.9	54	12.2	77	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.43	722.1	30.23	767.8	49.5	9.7	83	nw.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.17	766.3	30.20	767.1	56	13.3	62	ne.	8	3.6		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.25	692.1	30.02	762 5	53	11.7		n.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.04	763.0	30.19	766.8	48.5	9.2	63	nw.	4	1.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.88	758 9	29.94	760.5	73.0	22.8	100	ne.	8	3.6			10 n		ne.	5.12	130.0	heavy rain	E. C. Imlay.
Buffalo, New York	29.35	745.5	30.08	764.0	55.5	13.1	69	s.	18	8.0		3 cs	2 k	sw.	sw.	0	0	fair	Wm. Finn.
Buford, Fort, Dakota	28.33	719.6	30.31	769.9	45	7.2	93	nw.	5	2.2			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.75	755.6	30.15	765 8	69.7	20.9	83	calm	0	0		5 ck	hz.	w.		0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.90	759.4	30.10	764.5	52.0	11.1	98	n.	5	2.2			fg.			0	0	dense fog	O. D. Stewart.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	70.0	21.1	76	e.	20	8.9		5 k	0	w.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.18	766.6	30.20	767.1	58.0	14.4	69	ne.	6	2.7		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.27	743 4	29.95	760.7	49	9.4	100	nw.			2		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.11	764 8	30.13	765.3	74.8	23.8	80	e.	7	3.1		0	8 s			0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.06	763.5	30.11	764.8	77.0	25 0	85	sw.	5	2.2		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.13	765.3	70.0	21.1	70	ne.	6	2.7		0	4 s		ne.	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.16	766.1	68.5	20.3	92	n.	1	0.4		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.35	618.5	30.21	767.3	51.2	10.7	86	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.34	745.2	30.03	762 7	58.5	14.7	72	sw.	11	4.9		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	63	17.2	84	ne.	11	4.9		hz.	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.52	749 8	30.17	766.3	61.5	16.4	75	e.	1	0.4		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.38	746.2	30 10	764.5	50.6	10.3	76	se.	5	2.2		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.30	744.2	30.14	765.5	50	10.0	80	nw.	1	0.4		0	fg.			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.20	716.3	30.10	764.5	66.0	18.9	70	sw.	3	1.3		3 cs	0			0	0	clear	J. McGlone.
Custer, Fort, M. T	27.19	690.6	30.31	769 9	57	13.9	53	nw	1	0.4			0			0	0	clear	T. Gibson.
Davenport, Iowa	29.39	746 5	30.04	763.0	65	18.3	78	sw.	6	2.7		4 k	hz.	sw.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.38	644.6	30.08	764.0	61	16.1	70	calm	0	0		4 c	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.38	720.8	30.14	765.5	57	13.9	64	ne.	2	0.9		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.67	652.0	30.23	767.8	51	10.6	86	calm	0	0		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.20	767.1	30.22	767.6	63	17.2	73	ne.	8	3.6		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	25.06	636 5	30.17	766.3	58.5	14.7	70	nw.	10	4.5		0	2 s			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.08	764.0	60	15.6	87	w.	1	0.4		0	7 ks		w.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.38	746.2	30.07	763.8	59.0	15.0	70	sw.	13	5.8		5 ck	0	sw.		0	0	fair	E. R. Brace.
Dodge City, Kansas	27.53	699.2	30.08	764.0	61	16.1	93	ne.	12	5.4		3 ck	3 s	n.		0.02	0.5	fair	J. H. Bryce.
Dubuque, Iowa	29.31	744.5	30.01	762.2	62.3	16.8	82	sw.	0	2.7		5 k	0	nw.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.23	742.4	29.97	761.2	59	15.0	54	w.	2	0.9		0	0			0	0	clear	N. B. Conger.
Eastport, Maine	30.06	763.5	30.14	765.5	48.5	9.2	67	w.	2	0.9		0	hz.			0.01	0.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.35	694.7	30.04	763.0	63	17.2	68	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.47	672 3	30.12	765.0	64.0	17.8	33	e.	2	0.9		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.39	746.5	30.10	764.5	53	11.7	71	s.	8	3.6		5 cs	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.13	739 9	29.79	756.7	57.0	13.9	86	w.	7	3.1		0	8 s		sw.	0	0	cloudy	George Heathcote.
Galveston, Texas	30.01	762.2	30.05	763 3	82	27.8	67	e.	11	4.9			10 n		s.	inap.	inap.	light rain	E. O'C. Macnerney.
Grand Haven, Michigan	29.29	744.0	29.95	760.7	64.0	17.8	75	sw.	29	13.0			10 s		sw.	0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.37	644.4	29.97	761.2	74.3	23.5	29	e.	10	4.5		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	73.0	22.8	84	ne.	20	8.9		0	9 k		ne.	0.02	0.5	cloudy	R. M. Crawford.
Helena, Montana	26.05	661.7	30.22	767.6	63	17.2	45	n.	2	0.9		0	0			0	0	clear	T. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.79	731.3	30.17	766.3	50.2	10.1	76	nw.	8	3.6		4 cs	0	w.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.10	764.5	59.0	15.0	67	calm	0	0		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	76.1	24.5	89	ne.	16	7.2		3 ck	5 ks	e.		0.59	15.0	cloudy	I. A. Reed.
Jacksonville Florida	30.10	764.5	30.14	765.5	70.0	21.1	90	se.	5	2.2		5 cs	0	w.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.44	747.8	30.09	764.3	65.0	18.3	73	sw.	6	2.7		4 k	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	80.5	26.9	82	ne.	13	5.8		3 cs	2 ks	n.	e.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	68.5	20.3	81	e.	14	6.3			10 s		e.	1.01	25.7	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.12	739.6	30.14	765.5	66	18.9	89	ne.	2	0.9		4 k	0	nw.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.97	761.2	64	17.8	73	s.	3	1.3		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.23	742.4	30.11	764.8	65	18.3	87	calm	0	0		3 c	fg.	w.		0	0	clear	T. S. Outram.
Lewiston, Idaho	29.32	744.7	30.16	766.1	60.0	15.6	65	calm	0	0			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.07	763.8	74	23.3	84	calm	0	0		0	hz.			0	0	dense haze	W. U. Simons.
Los Angeles, California	29.57	751.1	29.96	761.0	67	19.4	73	ne.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.56	750.8	30.10	764.5	61	16.1	84	n.	4	1.8		3 c	0	w.		0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.52	749.8	30.20	767.1	66	18.9	58	n.	2	0.9		0	6 ks		w.	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.12	739.6	29.77	756.1	59.9	15.5	87	sw.	15	6.7			10 s		sw.	0.10	2.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.11	764.8	30.12	765.0	76.0	24.4	97	sw.	2	0.9		0	1 k		sw.	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.93	658.6	30.33	770.4	50	10.0	35	s.	7	3.1		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.05	737.9	29.77	756.1	57.5	14.2	80	w.	8	3.6			10 s		w.	inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.09	764.3	72	22.2	82	ne.	3	1.3		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.96	761.0	59	15.0	81	sw.	13	5.8			10 s		w.	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.08	764.0	30.12	765.0	71	21.7	90	n.	4	1.8		2 cs	hz.			0	0	light haze	H. U. Jones.
Montgomery, Alabama	29.89	759.2	30.12	765.0	74.5	23.6	76	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.15	740.4	30.14	765.5	45	7.2	83	nw.	6	2.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.88	606.5	30.03	762.7	28.0	— 2.2	92	w.	6	2.7		0	0			0.12	3.0	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.11	764.8	65.0	18.3	90	w.	2	0.9		3 cs	fg.	nw.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.21	767.3	48	8.9	71	n.	4	1.8		0	hz.			0	0	dense haze	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	55	12.8	62	ne.	2	0.9		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	77.5	25.3	86	e.	3	1.3		6 ck	hz.	n.		0	0	fair	M. Herman.
New York, New York	30.06	763.5	30.23	767.8	56	13.3	67	calm	0	0		0	fg.			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.16	766.1	30.19	766.8	71.0	21.7	75	e.	6	2.7		0	9 ks		w.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.16	766.1	62.6	17.0	88	ne.	5	2.2		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.11	764.8	30.15	765.8	52.0	11.1	93	calm	0	0			fg.			0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.14	765.5	63.0	17.6	85	n.	1	0.4		6 c	0			0	0	fair	A. Pollak.
Ogglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.81	757.2	30.13	765.3	49.0	9.4	74	s.	7	3.1		0	6 k		sw.	inap.	inap.	fair	J. G. Linsley
Palestine, Texas	29.58	751.3	30.13	765.3	74.0	23.3	80	s.	3	1.3		6c;cs	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	71.3	21.8	85	n.	0	2.7		7c;cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa.	30.13	765.3	30.23	767.8	55	12.8	86	n.	3	1.3		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.26	463.8	30.24	768.1	39	2.2	66	ne.	13	5.8		0	0			0.20	5.1	clear	H. Hall.
Pittsburg, Pennsylvania	29.34	745.2	30.14	765.5	51.0	10.6	86	calm	0	0			fg.			0	0	dense fog	G. C. Schaeffer.
Poplar River, Montana					51	10.6	86	sw.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.33	745.0	30.00	762.0	53.9	12.2	86	sw.	7	3.1		3 k	3 s	sw.		0	0	fair	M. H. Perry
Portland, Maine	30.14	765.5	30.19	766.8	49.0	9.4	63	w	0	2.7		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	55.0	12.8	90	calm	0	0			sk.			inap.	inap.	dense smoke	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.94	633.5	30.04	763.0	54	12.2	55	s.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.16	766.1	30.19	766.8	59	15.0	54	se.	5	2.2		0	0			0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.58	751.3	29.93	760.2	71	21.7	37	n.	5	2.2		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.53	750.0	30.08	764.0	53.2	11.8	83	e.	1	0.4		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	69.0	20.6	57	se.	4	1.8		0	0 s		sw.	0	0	fair	J. A. Barwick
St. Louis, Missouri	29.54	750.3	30.13	765.3	65.0	18.3	89	se.	5	2.2		hz.	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.00	762.0	30.03	762.7	53	11.7	86	sw.	13	5.8		0	7 ks		sw.	0	0	fair	A. P. Leavitt.
St. Paul, Minnesota	29.15	740.4	30.00	762.0	58.0	14.4	74	w	9	4.0		2 cs	0			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.26	743.2	30.13	765.3	41	5.0	92	nw.	8	3.6		0	1 s		nw.	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.79	655.1	30.04	763.0	71	21.7	43	n.	2	0.9		8 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.87	758.7	29.94	760.5	66.5	19.2	90	w.	2	0.9		4 ck	0	e.		0	0	fair	F. R. Day.
Sanford, Florida	30.04	763.0	30.09	764.3	72	22.2	83	n.	3	1.3		6 c	fg.	n.		inap.	inap.	fair	J. B. Marbury.
Sandusky, Ohio	29.45	748.0	30.12	765.0	55	12.8	74	sw.	11	4.9		8 k	fg.	w.		0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.20	767.1	30.23	767.8	58.0	14.4	74	e.	5	2.2		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.90	759.4	29.96	761.0	62	10.7	78	n.	1	0.4		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	76	24.4	74	sw.	0	2.7		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26 69	677.9	30.30	769.6	45	7.2	86	w.	5	2.2		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.87	758.7	30.11	764.8	75.5	24.2	75	calm	0	0			hz.			0	0	dense haze	E. N. Meekins.
Sill, Fort, Indian Territory	28.87	733.3	30.09	764.3	70	21.1	84	n.	8	3.6			10 s			0	0	cloudy	W. M. Mattmann.
Sitka, Alaska	29.99	761.7	30.05	763.3	51	10.6	86	e.	2	0.9		5 ck	0	e.		0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.61	752.1	30.08	764.0	72.8	22.7	90	e.	2	0.9		4 cs	sk.	e.		inap.	inap.	fair	J. B. Campbell.
Smithville North Carolina	30.08	764.0	30.12	765.0	79.0	26.1	85	sw.	7	3.1		hz.	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.17	715.5	30.21	767.3	51.5	10.8	80	n.	1	0.4			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.42	747.3	30.09	764.3	60	15.6	70	s.	8	3.6		1 ck	0	w		0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.13	689.1	30.09	764.3	62	16.7	62	sw.	4	1.8		6 c	0			0	0	fair	Louis Dorman.
Thomas, Camp, Arizona					60	15.6	56	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.39	746.5	30.07	763.8	55	12.8	69	sw.	8	3.6		9 ck	0	w.		0	0	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.57	751.1	29.59	751.6	50	10.0	93	se.	24	10.7			10 n			0.62	15.7	heavy rain	Samuel Applegate.
Verde, Fort, Arizona					65	18.3	30	se.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.87	758.7	30.12	765.0	73.6	23.1	83	s.	3	1.3		4 c	hz.			0	0	fair	James Keneally.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.14	765.5	30.25	768.3	57.9	14.4	76	ne.	1	0.4		0	hz.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.25	666.7	30.07	763.8	59.5	15.3	87	e.	5	2.2		5 c	0	s.		0.05	1.3	fair	F. H. Brandenburg.
Williamsport, Pa.																			B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.12	765.0	77.0	25.0	85	calm	0	0		7 c; k	0	sw.; s		0	0	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.84	732.5	30.12	765.0	60.0	15.6	84	nw.	6	2.7		2 k	0	nw.		0	0	clear	E. H. Thompson.
Yuma, Arizona	29.67	753.0	29.81	757.2	78.8	26.0	68	calm	0	0		0	1 s		e.	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		ne.			1		2 k		ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.07	560.5			48.6	9.2	71	calm	0	0			8 s		nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.04	763.0	78.6	25.9	92	ese.	6	2.7			10 n			0.04	1.0	light rain	Robert Johnstone.
Paramaribo, S. A.	30 03	762.7	30.03	762.7	80	26.7	82	se.			2	0	0			0.180	4.0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.40	748.3	30.02	762.5	75	23.9	94	calm			0		10 ks		calm	0.06	1.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	88	ne			2		9 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fox Factory, B. A.	30.11	764.8	30.17	766.3	43.0	6.1	92	nw.	15	6.7		3 k	2 s	nw.	nw.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 36° 31′, E. 23° 00′	29.97	761.2	81	27.2	83	ene.			1							sm'h		blue sky.
H. M. S. Coquette, N. 39° 38′, E. 19° 56′	30.01	762.2	82	27.8		nne.			2		1					sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.16	766.1	79	26.1	84	wsw.			2		5	wsw.						d. clouds.
H. M. S. Iris, Suez Canal, Egypt	29.79	756 7	82	27.8	87	nnw.			1		0							blue sky.
H. M. S. Tenedos. St. Johns, N. F	29.70	754.4	56	13.3	63	w.			4		2	w.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.14	765.5	48	8.9	78	nw.	5	2.2			0			0	0			clear.
U. S. S. Alliance, Magdalen Ids, Gulf St. Lawrence	29.98	761.5	54	12.2	74	nnw.			4		2			light	light	sm'h		clear.
U. S. S Galena, New York, N. Y.	30.24	768.1	54	12.2	87	nnw.			2		0					sm'h		clear
U. S. S. Jamestown, Gibraltar, Mediterranean	30.14	765.5	71	21.7	53	wnw.			5		0							clear.
U. S. S. Kearsarge, N. 40° 07′, W. 40° 43′	30.29	769 4	78	25.6	86	ssw.			2		0					sm'h		clear.
U. S. S. Lancaster, Villefranche, France	29.89	759 2	77	25.0	73	e.			3		0					sm'h		clear.
U. S. S. Portsmouth, Provincetown, Mass	30.00	762.0	58	14.4	82	se.			2									clear.
U. S. S. Powhatan, New York, N. Y	30.23	767.8	56	13.3	75	n.			2		5?							clear.
U. S. S. Quinnebaug, Hurst Roads, Eng			61	16.1	71	w.			4		5		w.			mod.	w.	fair.
U. S. S. Saratoga, off the Thimbles, Connecticut	30.22	767.6	57	13.9	87	ene.			3		2		ene.	0	0	sm'h		fair.
U. S. S. Swatara, Halifax, N. S	30.08	764.0	51	10.6	72	nw.			3		0			h'vy	h'vy	sm'h		clear.
U. S. S. Vandalia, Batiscan, Quebec, Canada	30.05	763.3	49	9.4	85	sw.			3		8		calm					fair.
U. S. S. Yantic, N. 68° 11′, W. 55° 16′	29.44	747.8	40	4.4	82	sse.			3		10					sm'h		showery.
S. S. British Crown, N. 49° 25′, W. 37° 39′†	29.94	760.5	69	20.6		wsw.			6		7		w.	0	0	r'gh	sw.	
S. S. British Prince, N. 50° 54′ W. 16° 12′*†	29.87?	758.7?	58	14.4		nnw.			4		9		nne.	4 h'r	4 h'r	sm'h		overcast.
S. S. Lord Clive, N. 40° 35′, W. 64° 49′	30.25?	768.3?				ne.			2		2		ne	0	0	sli't	nw.	fine.
S. S. Ohio, Liverpool, Eng†	29.70	754.4	59	15.0	70	wnw.			4		7		wnw.	14 h'r	14 h'r			cloudy.
S. S. Circassian, N. 55° 52′, W. 37° 06′	29.49	749.0	51	10.6	100	se.			5		10		se.			5	w.	overcast.
S. S. Grecian, N 47° 19′ W. 70° 18′	30.05	763.3	58	14.4	82	sw.			2		4		w.	0	0			fair.
S. S. Nova Scotian, N. 50° 14′, W. 43° 26′	29.73	755.1	58	14.4		sw.			5		10		sw			mod.	wsw.	hazy.
S. S. Prussian, N. 42° 24′, W. 69° 21′	30.12	765.0	59	15.0		n.			1		0			2 h'r	2 h'r	sm'h	nw.	clear.
S. S. Scandinavian, N. 44° 11′, W. 54° 55′	30.02	762.5	62	16.7		wnw			4		2		wnw.	4 h'r	4 h'r	con.	var.	d. clouds.
S. S. Jason, N 49° 28′, W. 11° 59′			59.0	15.0		e.			3		8 k					3	nw.	cloudy.
S. S. Alvo, N. 27° 28′, W. 74° 12′*	30.09	764.3	79	26.1		s.			4		10		ssw.	1 h'r	1 h'r	long	ese.	showery.
S. S. Andes, N. 21° 40′, W. 85° 00′*†	30.10	764.5																
S. S. Avilla. Jan Juan, Porto Rico*†	30.12	765.0	84	28.9		calm			0		0			rain	rain			
S. S. Australia, Malaga, Spain						nnw.			2-4		2		nne.	0	c			fine.
S. S. Dorian, N. 49° 12′ W. 8° 00′	29.97	761.2	53	11.7		w.			7		10		w.	sh'rs	sh'rs	mod.	w.	threatening.
S. S. Furnessia, New York, N. Y†	30.19	766.8	61	16.1	88	nw.			1		0			0	0			clear.
S. S. Galatia, Port Said, Egypt*†	29.84	757.9	91	32.8	74	n.			2		0			0	0	sm'h		clear.
S. S. Landaff City, N. 41° 06′, W. 58° 45′†	30.08	764.0	66	18.9		n.			5		5		ne.	3 h'r	3 h'r	mod.	w.	fine.
S. S. Bothnia, N. 40° 42′, W. 66° 08′	30.14	765.5	68	20.0	60	nnw.			2		2		nnw.	0	0	sm'h	wnw.	clear.
S. S. Pavonia, N. 50° 33′, W. 21° 57′*	30.00	762.0	62	16.7	88	w.			5-6		9		w.	8 h'r	8 h'r	r'gh	w.	squally.
S. S. Scythia, N. 47° 41′, W. 36° 36′	30.12	765.0	65	18.3	95	ssw.			4		8		ssw.	0	0	mod.	ssw.	hazy.
S. S. Samaria, N. 47° 50′ W. 36° 32′			63	17.2		ssw.			5		3		sw.	1 h'r	1 h'r	mod.	sw.	fair.
S. S. Canada, N. 49° 30′, W. 20° 00′	30.05	763.3	59.0	15		w.			6		s		w.	0	0	rg'h	wsw.	covered.
S. S. Ville de Bordeaux. N. 39° 55′, W. 25° 50′*†	30.45	773.4	73	22.8		e.			3		2		e.	0	0	long	ne.	clear
S. S. Bohemia, N. 48° 10′, W. 36° 50′†	30.20	767.1				s.			5		6		s.	0	0	long	ssw.	fine.
S. S. Gellert, N. 40° 34′, W. 72° 50′	30.18	766.6	62	16.7	88	nnw.			3		0			0	0	sm'h	nw.	clear.
S. S. Silesia, N. 43° 05, W. 57° 08′			59.5	15.3		nw.			0		7		nw.	0	0	long	wnw.	cloudy.
S. S. Westphalia, N. 50° 29′, W. 26° 28′	29.85?	758.2?	62?	16.7?	88	wsw.			6		10		wsw.	light	light	rg'h	w.	misty.
S. S. Rhaetia, N. 50° 12′, E. 0° 18′*	29.68	753.8	59	15.0		wnw.			4		1		nw.	0	0	sm'h	w.	fair.
S. S. Virginian, N. 43° 26′, W. 46° 46′ *	30.01	762.2	70	21.1		ssw.			5		6		sw.	0	0			fine.
S. S. Archimedes, N. 35° 35′, W. 70° 38′	30.08	764.0				ne.			2		3		wnw.	5 minutes		light	con.	fine.
S. S. Rosse, N. 40° 01′, W. 63° 20′			62	16.7		n.			4		2		nne.	0	0	mod.	w.	clear.
S. S. Chalmette, N. 31° 13′, W. 80° 05′†	30.18	766.6	79	26.1		sw.			4		4		sw.	0	0	mod.		clear.
S. S. Alleghany, Norfolk, Va†	30.23	767.8	74	23.3		se.			2		2		e.	4 h'r	4 h'r			fair.
S. S. Archimede, Palermo, Sicily†	30.05	763.3	82	27.8		ne.			2		1		ne.	0	0			clear.
S. S. City of Merida, N. 34° 36′, W. 75° 20′ *†	29.96?	761.0?	76	24.4		sw.			2		5		sw.	1 h'r	1 h'r	r'gh	ne.	fine.
S. S. Cienfuegos, N. 36° 51′, W. 74° 18′ *	30.07?	763.8?	70	21.1		nne.			1		8		sw.	1 h'r	1 h'r	small	nne.	cloudy
S. S. Canada, N. 44° 10′, W. 43° 30′†	30.18	766.6	74	23.3		sw.			4		3			0	0	mod.	sw.	clear.
S. S. Denmark, London, Eng †	29.74	755.4	68	20.0		nw.			3		5		nw.	0	0			fair.
S. S. England, N. 47° 55′, W. 36° 13′	30.10	764.5				sw.			5		8		sw.	0	0	mod.	sw.	hazy.
S. S. Helvetia, Liverpool, Eng.	29.68?	753.9?	60	15.6	100	wnw.			6		5		wnw.	12 h'r	12 h'r			fair.
S. S. Holland, N. 47° 40′ W. 20° 27′	30.21	767.3	64	17.8		w.			4		5		w.	0	0	mod.	nw.	fair.
S. S. The Queen, N. 51° 23′, W. 10° 19′	29.71?	754.6?	56	13.3		s.			5		10		s.	9 h'r	9 h'r	mod.	ssw.	rainy.
S. S. Donau, N. 46° 11′, W. 48° 51′	29.86	758.4				wsw.			4		10		wsw.			mod.	wsw.	hazy.
S. S. Elbe, N. 49° 12′, W. 28° 28′	30.15	765.7	63.5	17.5	85	sw.			5		5		sw.	0	0	r'gh	sw.	fair.
S. S. Gen. Werder, N. 50° 29′, W. 28° 05′	30.02	762.5				sw.			5		10		sw			r'gh	wnw.	rainy.
S. S. Neckar, N. 50° 27′, W. 30° 01′	30.01	762.2	60.0	15.6	94	wsw.			6		10		wsw.			cross	wsw.	cloudy.
S. S. Oder, Southamptoa. Eng	29.88?	758.9?	62.6	17.0		wnw.			4		2		wnw.	0	0			clear.
S. S. Ohio, N. 41° 25, W. 60° 36′	30.08	764.0				n.			4		5		nw.	3 h'r	3 h'r	mod.	n.	fair.
S. S. Rhein, N. 49° 54′, W. 5° 22′	29.94	760.5	62.6	17.0		wnw.			4		4		nw.	0	0	mod.	nw.	fair.
S. S. Salier, N. 43° —′, W. 58° 45′*	30.05	763.3	60.8	16.0	54	n.			5					0	0	sm'h	n.	fair.
S. S. Strassburg, N. 42° 47′, W. 58° 26′	30.05	763.3	56.0	13.3	80	n.			4		2		n.	3 h'r	3 h'r	4	var.	clear.
S. S. City of Augusta, Savannah, Ga†	30.18	766.6				ssw.			2		6		ssw.	0	0			smoky.
S. S. Muriel, St. Thomas, W. I	29.96?	761.0?	85	29.4		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, New York, N. Y			70	21.1		calm			0		0			0	0			clear.
S. S. Belgenland, N. 40° 50′, W. 58° 25′†	30.14?	765.5?	70	21.1	90	wnw.			6		6		n.	1½ hr	1½ hr	long	ssw.	fair
S. S. Nederland, N. 49° 54′, W. 8° 37′			57	13.9	100	wsw.			5		10		w.	2 h'r	2 h'r	mod	w	overcast.
S. S. Rhynland, Antwerpt, Belgium	29.69	754.1	57	13.9	94	s.			4		1		sse.	8 h'r	8 h'r			clear.
S. S. Pennland, N. 49° 41′, W. 10° 44′	30.02?	762.5?	56	13.3	94	sw.			5		9		w.	1 h'r	1 h'r	mod.	nnw.	raining.
S. S. Vaderland, N. 49° 41′, W 7° 00′	30.09?	764.3?	61	16.1		nw.			3		5		wnw.	0	0	mod.	nw.	fair.
S. S. Waesland, N. 42° 16′, W. 61° 10′	30.14	765.5	55	12.8		nnw.			4		0			1 h'r	1 h'r	sm'h	wsw.	clear.
S. S Zeeland, Antwerpt, Belgium*†	29.58?	751.3?	56	13.3		w.			5		5		w.	shr's	shr's			fair.
S. S. P. Caland, N. 49° 50′, W 8° 15′	29.92	760.0	59.0	15	88	wsw.			5		10		wsw.			4	w.	rainy.
S. S. W. A. Scholten, N. 46° 31′ W. 45° 57′	29.77?	756.1?	59.0	15.0	94	sw.			6		10		w.	9 h'r	9 h'r	5	wsw.	foggy.
S. S Belize, Port Antonio, Jamacia			84	28.9		nw.			2		10			3 h'r	3 h'r	sm'h		heavy rain.
S. S. Valencia, Puerto Cabello, Venezuela†	29.95	760.7	85	29.4	72	sw.			1		4		calm	0	0			fair.
S. S. State of Indiana, N. 41° 56′, W. 63° 07 *†	30.10	764.5	56	13.3		nw.			2		2		nw.	6 h'r	6 h'r	mod	w	clear.
S. S. State of Nevada, New York, N. Y †	30.21	767.3	57	13.9		nnw.			3		1		nw.	0	0			clear.
S. S, State of Alabama, N. 39° 55′, W. 57° 43′*	29.86?	758.4?	72	22.2		n.			2		5		n.	3 h'r	3 h'r	sm'h		
S. S. Thingvalla, Christiania, Norway†	29.59?	751.6?	57.2	14.0		ssw.			5		4		ssw.	3 h'r	3 h'r	mod.	ssw.	fair.
S. S. Romano, N. 47° 49′, W. 9° 56′*†	30.00	762.0	62	16.7		w.			6		7		w.	0	0	mod.	w.	fair.
S. S. Salerno, N. 40° 47′, W. 66° 02′*†	30.11	764.8	61	16.1		nw.			2		0			0	0	long	w.	clear.
S. S. Dominion, N 54° 57′, W. 6° 18′ *†.	29.72	754.9	58	14.4		nnw.			3		5		nnw.			mod.	nnw.	fair
S. S. Lake Manitoba, N. 55° 54′, W. 33° 10′	29.63	752.6	58	14.4		sse.			4		10		sse.	4 h'r	4 h'r	mod.	sw.	overcast.
S. S. Daniel Steinmann, N. 41° 48′, W. 62° 40′ *†	30.20?	767.1?	65	18.3		n.			2		0			0	0	mod.	w.	clear.
S. S. Plantyn, N. 48° 53′, W. 24° 35′	30.05?	763.3?							4		4		w.	0	0	sm'h	wnw.	fair.
S. S. Saxon, Boston, Mass†	30.17	766.3				nw.			1		0			0	0			clear.
S. S. Celtic, N. 45° 20′, W. 40° 52′†	30.00?	762.0?	71	21.7	85	sw.			3		8		sw.	0	0	sm'h		cloudy.
S. S. Iowa, N. 48° 05′, W. 48° 53′			56	13.3		sw.			5		7		sw.	5 h'r	5 h'r	mod.	sw.	fair.
S. S. Algiers, N. 25° 25′, W. 84° 10′*†	30.10	764.5				e.			1								nw.	squally.
S. S. City of Alexandria, Havana, Cuba*†	30.01	762.2	78	25.6		calm			0							sm'h		d. clouds.
Bg. Abbie Clifford, N. 40° 30′, W. 70° 33′ †	30.06?	763 5?	60	15.6		ese.			2		0					mod	wsw.	clear.
Schr. Arthur Burton, 38° 20,, 74° 05′†	30.23	767.8				ne.			2		0			0	0	r'gh	ne.	clear.
Sch. Abbie Gheen, Philadelphia, Pa†	30.21	767.3	60	15.6		ne.			2									clear.
Bk. Aquidneck, N. 29° 32′. W. 67° 29′ *†	30.30?	769.6?	90?	32.2?		se.			1				s.	0	0	light	ne.	clear.
Bg. Alcira, N. 28° 42′, W. 74° 00′	30.20	767.1	82	27.8		ese.			4		10		se.	0	0	mod.	n.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, Barbadoes, W. I†	29.93	760.2	83	28.3	.....	ne.	.....	.....	3	.....	4	.....	ne.	0	0	.....	.....	fair.
Bk. Aureola, N. 30° 45′, W. 22° 06′ †	30.20	767.1	80	26.7	.....	ne.	.....	.....	5	.....	6	.....	ne.	0	0	mod.	ne.	fair.
Bk. Adelaide, N. 33° 29′, W. 56° 17′† *	30.32?	770.1?	.....	.....	.....	sw.	.....	.....	4	.....	2	.....	sw.	2 h'r	2 h'r	light	w.	clear.
Bg. Belle of the Bay, N. 35° 20′, W. 74° 51′ †	30.10	764.5	.....	.....	.....	n.	.....	.....	6	.....	10	.....	sw.	1 h'r	1 h'r	chop	e.	raining.
S. S. Burswell, N. 40° 49′, W. 49° 38′*†	30.10	764.5	79	26.1	.....	ssw.	.....	.....	3	.....	8	.....	sw.	4 h'r	4 h'r	str'g	wsw.	raining.
S. S. Cannonbury, N. 3° 20′, W. 45° 48′*†	30.10?	764.5?	.....	.....	.....	ese.	.....	.....	1	.....	2	.....	e.	0	0	sm'h	.....	clear.
Bk. Celestina, N. 39° 41′, E. 2° —′*†	30.04?	763.0?	.....	.....	.....	nw.	.....	.....	3	.....	1	.....	w.	0	0	r'gh	sw.	clear.
Bk. Childwall, N. 48° 40′, W. 9° 00′	.....	.....	59	15.0	94	wnw.	.....	.....	4	.....	10	.....	wnw.	20 h'r	20 h'r	cross	w.	foggy.
Bk. Cato, N. 48° 09′, W. 15° 26′†	30.09	764.3	.....	.....	.....	w.	.....	.....	6	.....	4?	.....	w.	.....	.....	long	nw.	cloudy.?
Bk. Don Justo, N. 58° 20′, E. 0° 56′	.....	.....	.....	.....	.....	w.	.....	.....	7	.....	.....	.....	w.	2 h'r	2 h'r	r'gh	nw.	rainy.
Bg. Daphne, N. 36° 08′, W. 65° 39′ *†	30.30?	769.6?	80	26.7	.....	calm	.....	.....	0	.....	3	.....	ne.	1 h'r	1 h'r	long	n.	clear.
S. S. State of Nebraska, N. 47° 22′, W. 47° 15′*†	29.83	757.7	56	13.3	.....	ssw.	.....	.....	6	.....	5	.....	w.	0	0	sm'h	.....	dense fog.
S. S. D J. Foley, N. 24° 35′, W. 74° 16′*†	30.10	764.5	83	28.3	78	se.	.....	.....	4	.....	4	.....	sse.	sq'lls	sq'lls	short	se.	squally.
Bkt. David A. Preston, Boston, Mass	.....	.....	.....	.....	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	
S. Doria, N. 46° 40′, W. 29° 30′*†	30.35?	770.9?	61.7	16.5	.....	sw.	.....	.....	4–5	.....	3	.....	sw.	0	0	mod.	wsw.	blue sky.
S. David Stewart, N. 8° 09′, W. 45° 00′	.....	.....	87	30.6	.....	var.	.....	.....	2	.....	5	.....	ssw.	4 h'r	4 h'r	long.	s.	
S. E. J. Spicer, Antwerp, Belgium	29.78?	756.4?	62	16.7	88	sw.	.....	.....	5	.....	5	.....	sw.	sh'rs	sh'rs	.....	.....	fair.
Schr. Edith R. Seward, Doboy Island, Ga†	30.00?	762.0?	75	23.9	.....	wsw.	.....	.....	1	.....	3	.....	calm	0	0	.....	.....	clear.
Bk. E. D. Bigelow, N. 26° 26′, W. 87° 53′ ..†	30.04	763.0	91?	32.8?	.....	ne.	.....	.....	2	.....	2	.....	ene.	0	0	sm'h	.....	clear.
Bk. Edmund Phinney, N. 11° 20′, W. 45° 33′†	30.04	763.0	86	30.0	.....	w.	.....	.....	1	.....	4	.....	.....	4 h'r	4 h'r	mod.	var.	fair.
Bk. E. L. Pettingill, N. 14° 23′, W. 35° 39′*†	30.15?	765.8?	80	26.7	.....	ene.	.....	.....	5	.....	5	.....	e.	0	0	sm'h	ese.	fair.
S. Festina Lente, Red Island, Canada	29.99	761.7	42	5.6	.....	ssw.	.....	.....	3	.....	3	.....	nw.	0	0	.....	.....	clear.
U. S. Fish. Com. S. S. Fish Hawk, New Bedford, Mass†	30.16	766.1	50	10.0	.....	nnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. George, N. 30° 15′, W. 61° 00′ *†	30.22	767.6	80	26.7	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	mod.	se.	clear.
Bk. Galeon, Plymouth, Eng	.....	.....	61	16.1	.....	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	blue sky.
Bk. Grey Eagle, N. 32° 04′, W. 54° 00′*†	30.15	765.8	.....	.....	.....	nnw.	.....	.....	1	.....	0	.....	.....	0	0	mod.	sw.	clear.
Bg. Giles Loring, N. 29° 38′ W. 72° 05′*†	30.28?	769.1?	86	30.0	80	sse.	.....	.....	4	.....	3	.....	se.	1 h'r	1 h'r	.....	.....	fine.
S. Hedwig, N. 38° 22′, E. 3° 50′	29.99?	761.8?	77.7	25.4	77	wsw.	.....	.....	4	.....	2	.....	wsw.	0	0	2	w.	fine.
Schr. Isabel Alberto, N 27° 04′, W. 75° 33′†	30.07	763.8	.....	.....	.....	e.	.....	.....	2	.....	10	.....	var.	h'vy	h'vy	mod.	var.	squally.
Bkt. Josephine, N. 29° 36′ W. 69° 56′†	30.17	766.3	83	28.3	67	sse.	.....	.....	3	.....	8	.....	.....	½h'r	½hr	mod.	sse.	fair.
Schr. John L. Thomas, Vivorilla Cays, C. A.*†	29.96	761.0	85	29.4	83	ne.	.....	.....	2	.....	2	.....	e.	0	0	.....	.....	clear.
Schr. Jennie N. Huddell, Vineyard Sound, Mass	30.21	767.3	58	14.4	94	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	clear.
Bg. Josefa, Bristol, Eng†	29.84	757.9	.....	.....	.....	wnw.	.....	.....	6	.....	2	.....	wnw.	3 h'r	3 h'r	.....	.....	fine.
Bk. Lady Hincks, N. 46° 08′, W. 16° 00′ *†	30.10	764.5	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	
Bg. L. & W. Armstrong, St. Pierre Martinique, W.I*†	29.96	761.0	.....	.....	.....	ene.	.....	.....	2	.....	1	.....	ene.	½ h'r	½ h'r	.....	.....	clear.
S. S. Madrid, Genoa, Italy†	29.91	759.7	76	24.4	77	s.	.....	.....	1	.....	3	.....	s.	0	0	.....	.....	fair.
Bk. Mohican, N. 7° 00′, W. 34° 50′	29.88?	758.9?	81	27.2	.....	sse.	.....	.....	6	.....	10	.....	se.	7 h'r	7 h'r	r'gh	ese.	cloudy.
Schr. Norena, N. 19° 12′, W. 63° 35′*†	30.05	763.3	.....	.....	.....	ene.	.....	.....	4	.....	1	.....	e.	0	0	light	ne.	fine.
Bk. Orpheus, N. 58° 47′, W. 15° 41′	29.67	753.6	57	13.9	.....	calm	.....	.....	0	.....	4 k	.....	n.	0	0	sm'h	.....	fair.
Bk. Ottawa, N. 43° 02′, W. 62° 15′	30.07	763.8	58	14.4	.....	nnw.	.....	.....	3	.....	0	.....	.....	2 h'r	2 h'r	mod.	wsw.	clear.
S. Paramita, N. 40° 59′, W. 67° 26′†	30.17	766.3	67	19.4	.....	var.	.....	.....	3	.....	0	.....	.....	0	0	sharp	wsw.	clear.
Schr. Rollin Sanford, N. 27° 28′, W. 84° 10′ †	30.10	764.5	.....	.....	.....	ese.	.....	.....	5	.....	8	.....	e.	0	0	sm'h	.....	squally.
Bg. Rising Sun, San Juan, Porto Rico, W. I†	30.00	762.0	84	28.9	.....	e.	.....	.....	4	.....	1	.....	e.	0	0	.....	.....	clear.
Schr. S. B. Hubbard, Doboy Island, Ga†	30.19	766.8	80	26.7	.....	n.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bgt. Sunlight, Demerara, British Guiana*†	29.95	760.7	.....	.....	.....	s	.....	.....	2	.....	5	.....	ese.	1 h'r	1 h'r	.....	.....	fair.
Bk. Scud, N. 27° 33′, W. 69° 20′*†	30.20	767.1	85	29.4	.....	se.	.....	.....	4	.....	5	.....	se.	0	0	sm'h	.....	fair.
Bk. Southern Belle, N. 36° 46′, W. 9° 35′†	30.20	767.1	66	18.9	.....	nne.	.....	.....	4	.....	2	.....	.....	.....	.....	long	n.	fair.
S. S. Tower Hill, N. 48° 13′, W. 27° 51′ *†	30.28?	769.1?	.....	.....	.....	w.	.....	.....	2	.....	5	.....	nw.	.....	.....	mod.	nw.	hazy.
Schr. Viola Reppard, Baltimore, Md†	30.19	766.8	68	20.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	smoky.
Bgt. Willie, N. 12° 24′, W. 3° 10′*†	30.04	763.0	86	30.0	.....	ene.	.....	.....	1	.....	3	.....	ene.	sh'rs	sh'rs	mod.	var.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.06	763.5	69.2	20.7	80	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Opal, Elephant Bay, Benguela	30.05	763.3	69	20.6	90	wsw.	.....	.....	2	.....	4	w.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.92	760.0	51.2	10.7	100	ese.	.....	.....	4–6	.....	10	.....	.....	.....	.....	5	ese.	thnd'rst'rm
U. S. S. Brooklyn, Montevideo, Uruguay *	29.88	758.9	55	12.8	93	ese.	17	7.6	.....	.....	10	.....	se.	1.61	40.9	mod.	se.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay	29.87	758.7	54	12.2	100	e.	.....	.....	3–6	.....	10	.....	.....	.....	.....	mod.	.....	overcast.
S. S. Hevelius, S. 23° 00′, W. 43° 15′*†	30.20	767.1	72	22.2	.....	e	.....	.....	3	.....	4	.....	n.	0	0	sm'h	.....	hazy.
Bk. Great Surgeon, S. 7° 00′, W. 26° 54′*†	30.26	768.6	78	25.6	.....	e.	.....	.....	4	.....	4	.....	se.	0	0	short	se.	fair.
S. Gatherer, S. 22° 17′, W. 34° —′*	30.18	766.6	70	21.1	80	var.	.....	.....	2	.....	3	.....	ne.	½ h'r	½h'r	sm'h	s.	clear.
Bk. Godeffroy, S. 39° 41′ W. 55° 24′	30.17	766.3	44.8	7.1	85	se.	.....	.....	5	k	10 k	.....	w.	0	0	mod.	var.	cloudy.
Bkt. Louise Adelaide, S. 1° 00′, W. 27° 45′†	30.06	763.5	82	27.8	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	long	s.	clear.
S. S. Olbers, S. 11° 11′, W. 36° 32′	30.21	767.3	79.5	26.4	76	se.	.....	.....	3	.....	3	.....	se.	0	0	slt't	se.	fair.
H. M. S. Boadicea, Simons Bay, Cape Colony	30.02	762.5	59	15.0	.....	nnw.	.....	.....	2–5	.....	7	wnw.	.....	.....	.....	.....	.....	squally.
Bg. John Wesley, Rio de Janeiro, Brazil*†	30.11	764.8	73	22.8	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 42° 32′, E. 131° 25′	29.84	757.9	71	21.7	80	s.	.....	.....	2	.....	3	sse.	.....	.....	.....	sm'h	.....	blue sky
H. M. S. Flying Fish, N. 37° 27′, E. 124° 05′	29.79	756.7	76	24.4	86	e.	.....	.....	1	.....	10	.....	.....	.....	.....	1	e.	overcast.
H. M. S. Magpie, N. 5° 16′, E. 119° 16′	29.83	757.7	80.2	26.8	91	s.	.....	.....	1	.....	0	.....	nw.	.....	.....	3	se.	blue sky
H. M. S. Mutine, N. 26° 50′, W. 116° 15′	29.95	760.7	70	21.1	.....	nw.	.....	.....	3	.....	2	.....	.....	.....	.....	3	nw.	blue sky.
H. M. S. Zephyr, N. 41° 40′ E. 138° 12′	29.87	758.7	66	18.9	?	wnw.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
H. P. M. S. Tamega, Macao, China	29.83	757.6	84.6	29.2	85	e.	.....	.....	3	.....	1	.....	.....	0	0	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.90?	759.4?	77.5	25.3	80	ssw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Essex, Nagasaki, Japan	29.95	760.7	80	26.7	82	ssw.	.....	.....	1	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Monocacy, Roze Island, Corea	29.82	757.4	78	25.6	78	e.	.....	.....	2	.....	7	.....	e.	.....	.....	sm'h	.....	fair.
U. S. S. Palos, Hong Kong, China	29.92	760.0	83	28.3	79	wnw.	.....	.....	1	.....	2	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Pensacola, N. 20° 40′, W. 160° 15′ *	29.98	761.5	79	26.1	78	ene.	.....	.....	3	.....	5	.....	ene.	light	light	sm'h	.....	fair.
U. S. S. Richmond, Yokohama, Japan	29.77	756.1	79	26.1	86	s.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Coptic, N. 31° 29′, E. 133° 13′	29.90	759.4	83.5	28.6	77	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	blue sky.
S. S. Oceanic, N. 43° 13′ E. 101° 50′	29.64	752.8	66	18.9	.....	sw.	.....	.....	5–6	.....	9	.....	s.	rain	rain	cl'd	.....	raining.
S. S Oregon, N. 45° 45′, W. 123° 55′ †	30.14	765.5	58	14.4	94	nnw.	.....	.....	2	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Ancon, San Francisco, Cal†	29.98	761.5	62	16.7	72	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. State of California, San Francisco, Calf	29.99	761.7	57	13.9	87	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. Queen of the Pacific, N. 44° 10′, W. 124° 05′†	30.13	765.3	58	14.4	94	nnw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	foggy.
S. S. City of New York, N. 32° 59′, W. 135° 55 †	30.23	767.8	68	20.0	74	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	ne.	clear.
S. S. City of Tokio, N. 36° 40′, E. 141° 23′†	29.95?	760.7?	82	27.8	83	sw.	.....	.....	6	.....	9	.....	sw.	0	0	small	sw.	squally.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.88	758.9	82	27.8	87	e.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Colima, N. 11° 24′, W. 87° 21′ †	29.94	760.5	80	26.7	82	nne.	.....	.....	4	.....	4?	.....	ne.	0	0	mod.	ne.	overcast.?
S. S. Granada, N. 27° 52′, W. 116° 35′..†	29.98	761.5	67	19.4	84	nw.	.....	.....	3	.....	2	.....	nw.	0	0	mod.	nw.	clear.
S. S. San Juan, Panama, Panama	.....	.....	77	25.0	.....	wnw.	.....	.....	2	2cs	.....	nw.	.....	0	0	gr'd	nw.	fine.
S. S. Benledi, N. 5° —′, E. 105° 30′*	29.92	760.0	83.5	28.6	77	s.	.....	.....	3	.....	2	.....	s.	0	0	mod.	w.	fine.
S. Mt. Washington, N 39° 22′, W. 135° 40′*†	30.18?	766.6?	69	20.6	95	ssw.	.....	.....	2	.....	2	.....	ssw.	4 h'r	4 h'r	sm'h	.....	clear.
S. St. David, N. 38° 02′, E. 149° 38′ *†	29.89	759.2	81.3	27.4	96	sw.	.....	.....	6	.....	9	.....	var.	0	0	short	var.	overcast.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 58′, E. 156° 05′	29.87	758.7	82.3	27.9	85	w.	.....	.....	1	.....	6	.....	.....	.....	.....	sm'h	.....	d. clouds.
U. S. S. Hartford, Callao Bay, Peru *	29.96	761.0	61	16.1	94	sse.	.....	.....	1	.....	10	.....	.....	rain	rain	.....	.....	cloudy.
U. S. S. Iroquois, Callao, Peru	30.06	763.5	63	17.2	83	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, Callao, Peru *	29.88	758.9	62	16.7	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	60	15.6	94	calm	.....	.....	0	.....	10	.....	.....	.....	.....	mod	w.	cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.20	767.1	59	15.0	94	calm	.....	.....	0	.....	8	.....	calm	.....	.....	.....	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W*†	29.61	752.1	56	13.3	.....	sw.	.....	.....	5	.....	3 k	.....	sw.	.....	.....	.....	.....	clear
S. S. Zealandia, Sydney, N. S. W	29.95	760.7	56	13.3	87	s.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
Bk. Chas. Stewart, S. 23° 00′. W. 78° 00′†	30.31	769.9	57	13.9	.....	se.	.....	.....	6	.....	5	.....	ssw.	0	0	long	sw.	fair.
S. David Crocket, S 18° 11′, W. 120° 14′*	30.02	762.5	72	22.2	80	ne.	.....	.....	3–4	.....	8	.....	ene.	4 h'r	4 h'r	long	e.	showery.
S. Sovereign of the Seas, S. 52° 50′, W. 84° 45′*†	29.40	746.7	37	2.8	90	nnw.	.....	.....	6	.....	7	.....	wnw.	10 h'r	10 h'r	h'vy	w.	squally
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 17° 22′, E. 49° 34′	30.15	765.8	.....	.....	.....	sse.	.....	.....	3	.....	6	ese.	.....	.....	.....	4	sse.	d. clouds.
H. M. S. Euryalus, S. 15° 45′, E. 52° 55′	30.06	763.5	72	22.2	85	ese.	.....	.....	2	.....	10	calm	.....	.....	.....	1	ese.	overcast.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	77	25.0	91	nnw.	.....	.....	2	.....	3	nnw.	.....	.....	.....	2	nnw.	d. clouds.
H. M. S. Woodlark, N. 25° 00′ E. 50° 52′	29.68	753.9	91.5	33.1	77	nw.	.....	.....	3	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, S. 3° 04′, E. 106° 16′	29.87	758.7	82	27.8	91	se.	.....	.....	2	.....	10	.....	calm	0	0	sm'h	.....	fair.
Bk. Pilgrim, S. 20° 34′, E. 67° 35′*†	30.20	767.1	.....	.....	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	mod.	s.	clear

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

UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 5, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.8	77.7	25.4	76	se.			1		0			0	0	clear	Roziere.
Algiers			30.06	763.6	78.1	25.6	56	n.			3		0			0	0	clear	Thève.
La Galle			30.01	762.2	84.2	29.0	52	ne.			3		3			Inap.	Inap.	pretty fair	Fonfrède.
Tunis			30.02	762.6	83.1	28.4	37	nnw.			3		1			0	0	very fair	Delord.
Saida			30.13	765.2															Pérès.
Tebessa			30.09	764.2	77.0	25.0	50	nw.			1		0			0	0	clear	St. Martin.
Geriville					89.6	32.0	14	n.			1		0			0	0	clear	Forfert.
Laghouat			30.03	762.8	88.9	31.6	26	ese.			1		0			0	0	clear	Abraham.
Biskra			29.96	760.9	97.2	36.2	22	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.32	770.1	46.5	8.1	83	calm	0	0			8 k			0.063	1.6	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.96	761.0	30.05	763.3	46.7	8.2	92	wsw.	9	4.0			6			0.13	3.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.6	29.78	756.3	59.2	15.1	87	ne.			2		8			0.543	13.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.98	736.2	29.73	755.2	63.0	17.2	84	w.	8.7	3.9			10			0.815	20.7		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.38	720.8	29.70	754.3	85.8	29.9	37	s.			5		0			0.465	11.8		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	726.0	29.92	759.9	53.6	12.0	82	wsw.			2		10			0.295	7.5		The Staff.
Lemberg	28.78	731.1	29.71	754.7	77.5	25.3	48	s.			5		1			0.465	11.8		Dr. T. Stanecki.
Pola	29.65	753.1	29.76	755.8	73.4	23.0	70	nw.			3					0.016	0.4		I. R. Hydrographic Office.
Szathmar	29.21	741.9	29.65	753.1	87.8	31.0	42	s			4		2			0.276	7.0		Joseph Midlinszky, S. J
Szegedin	29.48	748.7	29.75	755.6	69.8	21.0	82	calm			0		10			0.059	1.5		Karl Stracel.
Trieste	29.69	754.1	29.79	756.6	71.6	22.0	76	sw.			1		3			0.606	15.4		Royal Academy.
Vienna	29.16	740.7	29.87	758.8	55.4	13.0	88	w.			3		10			0.134	3.4		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.82	757.4	29.91	759.7	53.6	12.0	57	nw.	21	9.4			4			0.060	1.5	blue sky	W. Boswell.
Armagh, Observatory	29.81	757.2	30.05	763.3	56.7	13.7	58	n.	4	1.8			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.93	760.2	58.0	14.4	58	nnw.	12	5.4			2					blue sky	John Hartnup.
Bolton, Sharples	29.38	746.2	29.91	759.7	56.4	13.6	60	wnw.	12	5.4			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.51	749.5	29.91	759.7	55.1	12.8	78	ne.			2		7			0.02	0.5	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	83.0	28.3	75	e.			2		8					overcast	Corpl. W. I. Cull, A. H. C
Cardington	29.74	755.4	30.84	757.9	57.4	14.1	70	n.			0.6		6					d. clouds	John McLaren.
Chatham, School M. E.	29.65	753.1	29.82	757.4	53.7	12.1	87	nw.			1		10			blank	blank	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.78	756.4	30.01	762.2	57.4	14.1	69	nw.			4		5					d. clouds	The Staff.
Fort Napier, Natal	27.51	698.7	29.73	755.1	87.5	30.8	24	e.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.98	761.5	30.01	762.2	57	13.9	75	w.			1		3			0.05	1.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762.7	30.09	764.3	76.0	24.4	82	w.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.67	753.6	29.87	758.7	56.8	13.8	47	nnw.			3		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.66	753.4	29.83	757.7	59.9	15.5	68	n.			3		6			0.40	10.2	d. clouds	The Staff.
Guernsey	29.64	752.8	29.93	760.2	59.0	15.0	68	nnw.			3		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.82	757.4	29.86	758.4	58.0	14.4	63	n.	14	6.3			7					d. clouds	The Staff.
Leicester, Museum	29.62	752.3	29.87	758.7	59.0	15.0	56	n.			2		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.94	760.5	83.6	28.7	63	nw.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.07	763.8	30.12	765.0	73.0	22.8	99	se.			1		10			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.39	746.5	29.90	759.4	57.8	14.3	60												J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	57.8	14.3	64	nnw.			4		7					d. clouds	The Staff.
Plymouth	29.88	758.9	29.95	760.7	61.0	16.1	71	nw.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.79	756.7	29.89	759.2	50.9	10.5	82						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.79	756.7	88.0	31.1	40	nne.			2		1					misty	W. H. Lyne.
Sheffield			29.80	756.9	55.0	12.8	68	ne.								0.04	1.0		W. F. Cooper.
Stilloth Rectory	29.90	759.4	29.93	760.2	57.3	14.1	70	n.			1		6			0.105	2.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.94	760.5	55.8	13.2	60	n.	9	4.0			7					d. clouds	W. C. Carlisle.
Strathfield Turgiss					61.3	16.3	70	nw.			0.7		4					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.98	761.5	30.06	763.5	62	16.7	66	s.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.10	764.5	57.5	14.2	70	nnw.	8	3.6			4					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.55	750.6	29.94	760.5	75.2	24.0	71	nw.	18.6	8.3			0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.66	753.4	29.70	754.4	52	11.1	93	sw.	18	8.0			10 n			0.31	7.9	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.82	757.4	29.86	758.4	57	13.9	77	s.	24	10.7		0	7 s			0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.71	754.6	29.77	756.1	54	12.2	93	sw.	10	4.5			10 n		sw.	0.02	0.5	light rain	G. A. Blair.
Cornwall, Ontario	29.69	754.1	29.89	759.2	49.2	9.6	93	w.			2	0	1 s			0.150	3.8	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.62	752.3	29.66	753.4	50.0	10.0		e.			2		10 n			0.028	0.7	raining	H. A. Johnson.
Edmonton, N. W. T	27.80	706.1			38	3.3	63	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.60	751.8	29.62	752.3	50	10.0	80	nw.	15	6.7			7 n		nw.	0.08	2.0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.33	745.0	30.18	766.6	43	6.1	93	nw.	12	5.4		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.71	754.6	29.77	756.1	55.0	12.8	91	sw.	7.0	3.1			10 n			0.040	1.0	raining	Prof. Thos. Harrison
Grand Manan, N. B	29.77	756.1	29.82	757.4	59	15.0	81	sw.	22	9.8			10 n		W.	0	0	overcast	J. Chipman Seeley
Granton, Ontario	29.04	737.6	30.16	766.1	43.0	6.1	100	calm	0	0		1 k	0	W.		0.27	6.9	blue sky	Jas. Grant.
Halifax, N. S*	29.80	758.4	29.99	761.7	57	13.9	86	s.	12	5.4		10 k	0	W.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.67	753.6	30.06	763.5	51.2	10.7	83	sw.			1	0	0			0.10	2.5	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.65	753.1	29.99	761.7	51	10.6	86	nw.	9	4.0		0	0			0.41	10.4	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.97	761.2	30.01	762.2	59.0	15.0	70	wsw.			2	0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.29	744.0	30.20	767.1	48.5	9.2	98	calm	0	0		0	2 k			0	0	blue sky	E. B. Reed.
Medicine Hat	27.79	705.9	30.06	763.5	49	9.4	74	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.66	753.4	29.87	758.7	54	12.2	80	sw.	12	5.4		0	0			0.22	5.6	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.69	754.1	29.93	760.2	49.0	9.4	93	w.				0	0			0.003	0.1	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.37	746.0	30.07	763.8	47	8.3	86	nw.	9	4.0		0	0			0.53	13.5	clear	Rev. R. Mosley.
Peterboro, Ontario	29.32	744.7	30.05	763.3	52.7	11.5	79	w.			1	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.41	747.0	30.11	764.8	47	8.3	92	w.	7	3.1		0	0			0.23	5.8	clear	H. Morgan.
Port Stanley, Ontario	29.48	748.8	30.13	765.3	48	8.9	86	w.	12	5.4		0	0			0.02	0.5	clear	M. Payne.
Que Appelle, N. W. T	27.88	708.1	30.15	765.8	44	6.7	71	sw.	10	4.5		2 cs	0			0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.43	747.5	29.78	756.4	53	11.7	93	w.	12	5.4		0	2 ks		W.	0.21	5.3	fair	Capt. Asse, R. N.
Rockliffe, Ontario*	29.53	750.0	29.99	761.7	47	8.3	86	w.	8	3.6		0	fg.			0.35	8.9	clear	W. H. McIntyre.
St. Andrews, N. B	29.71	754.6	29.76	755.9	56	13.3	93	ssw.	7	3.1			10 n					light rain	
St. John, N. B	29.69	754.1	29.83	757.7	54.0	12.2	99	s.	20	8.9		0	9 s			0	0	d. clouds	G. Hutchinson.
Saint John's, N. F	29.95	760.7	30.20	767.1	49	9.4	93	nw.			1	0	0			0	0	clear	The Commandant.
Saugeen, Ontario*	29.36	745.7	30.07	763.8	55	12.8	64	nw.	15	6.7		7 k	0			0.14	3.6	cloudy	
Stratford, Ontario	28.85	732.8	30.14	765.5	45.0	7.2	96	nw.	4.0	1.8		0	0			0.420	10.7	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F			29.96	761.1	55.4	13.0		w.			4					0	0		The Commandant.
S. W. Point, Anticosti	29.61	752.1	29.64	752.8	50	10.0	100	s.	6	2.7			10 n		s.			heavy rain	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	29.97	761.2	30.03	762.7	57	13.9	77	sw.	18	8.0		0	5 k		sw.	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.70	754.4	30.08	764.0	49	9.4	80	nw.	12	5.4		0	0			0.15	3.8	clear	Magnetic Observatory.
Woodstock, Ontario	29.03	737.3	30.11	764.8	46.6	8.1	85	w.				1 k	0	nw.		0.18	4.6	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.87	758.7	29.93	760.2	57	13.9	83	s.	17	7.6		7 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.88	758.9	29.91	759.7	65.0	18.3	68	wsw.	7.9	3.5		0	3 s			0	0	hazy	I. Garfelt.
Springbok Fontein																			J. T. Eustace.
Chilian.																			
Coquimbo	30.08	764.1	30.16	766.1	47.3	8.5	93	se.			1	0	0					clear	Samuel Redolez.
Iquique	30.06	763.6	30.09	764.3	58.1	14.5	69	sw.			3							cloudy	Rafael Moreno.
Niebla	29.54	750.4	29.65	753.1	48.6	9.2	97	n.			5		5		n.	2.440	62.0	raining.	Federico Köhling.
Punta Caldera	30.02	762.4	30.10	764.6	50.9	10.5	81	se.			3		8 n		e.			fair	Manuel Tobar.
Punta Corona	29.69	754.0	29.87	758.8				n.			8		10			0.551	14.0	raining	Ignacio Ayala.
Valparaiso	30.15	765.8	30.29	769.4	51.3	10.7	86	se.			3							clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.18	639.5																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.74	755.5	29.77	756.2	78.6	25.9	92	se.	4.0	1.8		0	0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.57	751.1	29.62	752.3	56.8	13.8	91	nw.	13	6			10					raining	Oversergent Fischer.
Fanoe	29.69	754.2	29.71	754.7	59.7	15.4	69	wnw.	9	4			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.57	751.0	29.61	752.1	47.1	8.4	74	e.	13	6			2						A. O. Thoriacius.
Thorshavn	29.84	757.8	29.86	758.4	50.9	10.5	74	nw.	16	7			1						Overloerer Bergh.
Vestervig	29.56	750.8	29.65	753.1	56.5	13.6	75	wnw.	13	6			4						Loerer Oesterbol.
Egyptian.																			
Cairo	29.62	752.3			92.7	33.7		n.	4.0	1.8			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.63	752.6	30.28	769.1	57.2	14	100	nw.			2		nk		nw.	0.169	4.3		M. Labroue, Director.
Alençon, Normal School	29.34	745.2	29.85	758.2	57.2	14	74	nw.			6		8		se.	0.394	10.0		M. Nicot, Director.
Avignon, Normal School	29.97	761.3	30.05	763.3	65.1	18.4	62	w.			1		10			0.55	14.	covered	M. Giraud, Director.
Bar-sur-Seine	29.20	741.7	29.74	755.4	60.8	16.0	67	sw.			3		8 kn		w.	0.091	2.3	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.39	746.4	29.65	753.2	52.9	11.6	93	wnw.			4		10		nw.	0.276	7.0	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.94	735.0	29.80	757.0	56.8	13.8	98	s.								0.315	8.0		M. Gobin, Director.
Bordeaux, Observatory	29.75	755.7	30.01	762.3	59.7	15.4	94	w.			2		10		w.	0.035	0.9	covered	M. Rayet, Director.
Bourges, Normal School	29.28	743.7	29.86	758.5	61.7	16.5	77	s.			2				sw.	0.47	12.		M. Malet, Director.
Brest, Naval Observatory	29.80	756.9	30.12	765.1	60.4	15.8	73	nnw.			2		6		nnw.	0.386	9.8		M. de Kermarée, Dir.
Caen, Normal School	29.78	756.3	29.86	758.4	54.7	12.6	90	nw.			2		8		nw.	0.433	11.0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.34	745.3	29.65	753.2	58.1	14.5	86	ssw.			6		10			0.276	7.0	covered	M. Jadot, Director.
Charleville, Normal School	29.22	742.2	29.73	755.2	52.0	11.1	84	ene.			4		10			0.24	6.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.55	725.1	29.90	759.4	55.0	12.8	83	w.			2		10			0.020	0.5	raining	M. Alluard, Director.
Cluny, Normal School	29.05	737.9	29.88	759.0	60.8	16	61	sw.			4				sw.	0.252	6.4		M. de Villemontée, Dir.
Commercy, Normal School	28.89	733.7	29.74	755.3	56.1	13.4	86	s.			4	c	5 kn	s.	s.	0.378	9.6	raining	Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.93	760.2	63.5	17.5	49	s.			4	6 ck				0.106	2.7		M. Jarach, Director.
Gréasque, du Rhone	28.91	734.4	30.02	762.5	64.8	18.2	66	nw.			6		5		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.22	742.1	29.97	761.3	60.8	16	67	s.			1		n		sw.	1.496	38.0		M. Ablard, Directoor.
Guéret, Normal School	28.31	719.1	29.90	759.4	55.0	12.8	86	w.			6		10 n		e.	0.08	25.	covered	M. Deforme, Dir.
Lamballe, Normal School	29.61	752.0	29.88	759.0	60.8	16	98	nw.			2		5		nw.	0.126	3.2	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.3	30.21	767.2	62.1	16.7	57	w.			4		10 n			0.339	8.6	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.2	29.99	761.8	64.4	18.0	55	nnw.			2		5		nw.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.89	733.8	29.94	760.5	55.9	13.3	72	sse.			1		10 n		sw.	0.409	10.4	raining	M. André, Director
Mans, Normal School	29.56	750.8	29.86	758.5	59.5	15.3		n.			4		5 kn		nw.	0.425	10.8	cloudy	M. Richard, Director
Marseille, Observatory	29.76	755.8	30.02	762.6	66.2	19.0	46	wnw.			4–6		6		nw.	0.010	0.4		M. Stephan, Director.
Montlouis	24.85	631.2	29.69	754.2	64.8	18.2	4	s.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.2	30.00	761.9	64.0	17.8	72	wsw.			6		8			0	0	very cloudy	M. Galzin, Director.
Nantes, Observatory	29.80	756.9	29.96	761.0	65.3	18.5	52	wnw.			2		7 k; kn		wnw.	0.437	11.1		M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.08	763.9	72.3	22.4	36	sw.	11.2	5.0			7	nw.	nw.	0.047	1.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.0			32.0	0.0		w.			2		5	e.	w.	0.472	12.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.93	734.9	29.99	761.7	59.0	15	52	s.			3		5 n	s.	s.	0.760	19.3	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.02	635.6			40.6	4.8	100	w.			5		10			0.299	7.6	rain & fog	M. Alluard.
Rochefort, Naval Obs'y	29.93	760.3	29.97	761.1	61.9	16.6	87	w.			2		10			0.154	3.9	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.3	29.95	760.7	62.8	17.1	81	wnw.			4		2		wnw.	0.598	15.2	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.84	707.2	30.00	762.1	50.5	10.3	90	nw.			1		10			0.555	14.1	raining	M. Seger, Director.
Rouen, Normal School	29.71	754.7	29.76	755.9	56.5	13.6	77	nw.			6		10	w.		0.10	4.	raining	M. Mouillot, Dir.
Saint Maur, Observatory	29.52	749.7	29.68	753.9	54.5	12.5	89	w.			1		10		w.	0.532	13.5	covered	M. Renou, Director.
Toulouse, Observatory	29.42	747.2	30.14	765.6	64.2	17.9	57	w.			8		10	w.		0.079	2.0	covered	M. Bailland, Director.
Tours	29.68	753.8	29.85	758.3	63.0	17.2	58	w.			4		8	nw.	wnw.	0.244	6.2	very cloudy	M. de Tastes.
Versailles, Observatory	29.21	742.0	29.70	754.4	54.0	12.2	93	sw.			8		10			0.441	11.2	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.02	762.5	30.17	766.3	57.2	14.0	91	sw.	13.9	6.2			10 k			0.902	22.9	raining	M. Cartier, Director.
German.																			
Ansbach	28.45	722.5	29.87	758.7	58.3	14.6	50	w.			2		9	w.		0.307	7.8		Prof. Jnedt.
Bamberg	29.03	737.3	29.87	758.7	60.1	15.6	50	w.			1		6 k		w.	0.142	3.6		Prof. Dr. Hoh.
Berlin	29.62	752.3	29.76	755.8	65.1	18.4	48	w.			3		8			0.114	2.9		Dr. Lensch.
Breslau	29.32	744.0	29.84	758.0	53.6	12.0	91	wnw.			3		10			0.094	2.4	rain & fog	Royal University Obs'y.
Carlsruhe	29.41	746.9	29.86	758.4	59.7	15.4	67	sw.			2		10	sw.		0.146	3.7	raining	Albert Senz.
Cassel	29.11	739.4	29.82	757.5	61.5	16.4	53	sw.			2		6	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.52	749.7	29.88	758.9	60.6	15.9	65	sw.			1		10			0.150	3.8		Physical Society.
Friedrichshafen	28.50	723.9	29.89	759.3	60.8	16.0	65	sw.			3		8	sw.		0.201	5.1		Wilhelm, Chief Tel.
Hamburg	29.07	753.5	29.76	755.8	58.5	14.7	78	nw.			3		10	nw.		0.551	14.0		E. Preller.
Kiel	29.83	757.6	29.84	758.0	59.2	15.1	66	nw.			2		8			0.311	7.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.40	746.8	29.81	757.2	64.0	17.8	37	wnw.			3		5	w.		0.213	5.4		H. Leppig, Asst.
Magdeburg	29.58	751.4	29.76	756.0	65.5	18.6	47	w.			3		4	w.		0.008	0.2		Weather Observatory.
Memel	29.66	753.4	29.71	754.6	73.0	22.8	53	ssw.			4	7 c							Isermann.
Munich	28.08	713.3	29.94	760.4	59.4	15.2	54	sw.			2		8	sw.		0.173	4.4		Central Station.
Neufahrwasser	29.62	752.4	29.64	752.8	68.2	20.1	66	nw.			2		10			0.240	6.1		A. Lothes.
Neustadt, Palatinate	29.32	744.6	29.84	757.9	58.5	14.7	91	s.			4		10	sw.		0	0		Dicknether.
Stuttgart	28.91	734.4	29.79	756.7	59.9	15.5	68	sw.			1		10			0.102	2.6		Prof. Dr. Schoder.
Wustrow	29.61	752.2	29.04	752.8	60.4	15.8	78	sw.			5		10 s			0.047	1.2		Profs. Brandes & Reimer.
Greek.																			
Athens	29.45	748.1	29.82	757.3	91.4	33.0		ne.			3.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.48	748.8	29.53	750.0	80.3	26.8	87	wnw.	27.0	12.1			10			0.40	10.2	misty	
Deesa	28.97	735.9	29.44	747.7	86.0	30.0	65	w.	10.0	4.5			8	w.	w.	0	0	d. clouds	
Bombay	29.04	752.8	29.68	753.8	79.3	26.3	86	w.	23.0	10.3			10		w.	0.30	7.6	overcast	
Poona, Yarrowda	27.83	706.9	29.69	754.1	74.4	23.6	78	sw.	27.0	12.1			5			0.12	3.0	d. clouds	
Trichinopoly	29.48	748.7	29.75	755.7	91.5	33.1	41	wnw.	0.6	0.3			8			0	0	d. clouds	
Bellary	28.26	717.9	29.73	755.1	79.0	26.1	66	w.	12.0	5.4			10			0	0	gloomy	
Belgaum	27.21	691.2	29.78	756.3	68.8	20.4	96	wsw.	14.0	6.3			10	w.		1.02	25.9	overcast	
Lahore	28.76	730.5	29.50	749.2	78.9	26.1	87	ne.	4.0	1.8			6		e.	2.88	73.2	gloomy	
Roorkee	28.59	726.2	29.48	748.7	79.8	26.6	88	s.	6.0	2.7			10	s.		0	0	overcast	
Agra	28.90	734.1	29.46	748.3	81.2	27.3	91	e.					10		e.	0.44	11.2	raining	
Nagpur	28.53	724.6	29.56	750.7	82.2	27.9	77	sw.	4.0	1.8			6		w.	0.07	1.8	d. clouds	
Jubbulpore	28.21	716.6	29.55	750.6	80.8	27.1	83	w.	4.0	1.8			8		nw.	0.08	2.0	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.16	740.6	29.53	750.1	80.2	26.8	89	ese.	3.0	1.3			9	ne.		0.16	4.1		
Allahabad	29.20	741.6	29.51	749.5	82.7	28.2	87	calm	0	0			10			1.51	38.4	overcast	
Patna	29.34	745.2	29.52	749.7	86.6	30.3	72	ese.	7.2	3.2			4	ese.	ese.	0	0	d. clouds	
Hazaribagh	27.54	699.5	29.54	750.3	75.1	23.9	92	sse.	5.1	2.3			7			0.54	13.7	thud'rstorm	
Cuttack	29.46	748.4	29.54	750.4	83.5	28.6	80	sw.	1.0	0.4			10			0.06	1.5	overcast	
Calcutta, Alipore	29.51	749.6	29.53	750.1	79.3	26.3	93	s.	3.5	1.6			10		e.	0.31	7.9	drizzling	
Dhubri	29.44	747.9	29.50	750.8	82.6	28.1	87	calm	0	0			1			0.01	0.3	d. clouds	
Chittagong	29.50	749.3	29.59	751.6	82.7	28.2	84	s.	3.4	1.5			8			0	0	d. clouds	
Sibsagar	29.29	743.9	29.02	752.3	86.6	30.3	81	ene.	2.0	0.9			6	w.	w.	0	0	d. clouds	
Jeypore	28.02	711.7	29.44	747.8	80.8	27.1	83	sw.	2.2	1.0			10		s.	1.72	43.7	drizzling	
Zanzibar	29.98	761.5			78.6	25.9	74	nnw.	2.1	0.9			6	se.	e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.35	745.6	29.75	755.7	72.0	22.2	66	s.	1.3	0.6			9			0.811	20.6		Prof. Giovanni Clodig.
Milan	29.27	743.5	29.77	756.2	72.3	22.4	30	wnw.	6.9	3.1			5	w.		0.268	6.8		Prof. G.V.Schiapparelli
Padua	29.63	752.5	29.73	755.2	72.1	22.3	54	wnw.	8.7	3.9			3	wsw.		0.732	18.6		Prof. Dott. Lorenzoni.
Moncalieri	28.89	733.9	29.77	756.2	71.8	22.1	35	e.	3.1	1.4			7			0	0		Prof. F. F. Denza.
Genoa	29.62	752.3	29.80	757.0	73.0	22.8	50	sw.	7.4	3.3			8	sw.		0.102	2.6		Prof. G. M. Garibaldi.
Mondovi	27.94	709.6	29.81	757.1	68.4	20.2	40	w.			4		6			0	0		Prof. D. C. Bruno.
Pesaro	29.74	755.5	29.79	756.7	77.9	25.5	37	sw.	15.0	6.7			6	w.		0	0		Prof. Luigi Guidi.
Florence	29.60	751.7	29.84	758.0	74.1	23.4	48	sw.			6		8	sw.		0.012	0.3		Prof. Costantino Pittei.
Leghorn	29.72	754.8	29.80	756.9	71.2	21.8	55	sw.	17.4	7.8			3	sw.		0.020	0.5		Prof. P. Monte.
Rome	29.70	754.4	29.87	758.7	78.1	25.6	49	wsw.	11.2	5.0			4	w.		0.217	5.5		Prof. P. Tacchini.
Lecce	29.55	750.6	29.79	756.7	85.6	29.8	42	ssw.	7.4	3.3			1			0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.0	29.91	759.7	84.2	29.0	65	wsw.	1.8	0.8			7	sw.		0	0		Prof. D. Conti.
Cagliari	29.84	757.8	30.02	762.0	75.9	24.4	38	nw.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.74	755.5	29.98	761.6	80.2	26.8	56	nnw.	4.2	1.9			3	nw.		0	0		Prof. G. Cacciatore.
Syracuse	29.82	757.3	29.86	758.4	83.5	28.6	39	nne.	18.1	8.1			4	nne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.41	747.2	29.93	760.1	75.0	23.9	60	sw.	10.5	4.7			5	wsw.		0.012	0.3		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.84	757.8	29.88	758.8	67.5	19.7	92	e.			4		10n;ks		sw.	0.098	2.5	raining	H. Hattori.
Awomori	29.83	757.7	29.87	758.7	67.3	19.6	70	se.	6.7	3.0			9 s			0	0	cloudy	K. Ogawa.
Hamamatsu	29.87	758.7	29.90	759.4	79.4	26.3	88	s.			2	0	4 s			0	0	fair	Sekigawa & Yamazaki.
Kagoshima	29.92	759.9	29.93	760.2	70.9	24.9	80	calm			0	0	1 s			0	0	clear	G. Miyanoaza.
Kanazawa	29.77	756.2	29.87	758.7	78.4	24.1	94	calm	0	0			10ks;ck			0.050	1.3	overcast	S. Endo.
Kioto	29.71	754.0	29.88	759.0	78.0	25.6	78	wsw.	0.6	0.3		0	9 s			0	0	cloudy	M. Tojima.
Kochi	29.89	759.3	29.91	759.8	78.8	26.0	91	ne.	13.1	5.8			10 n		ne.	0.32	8.1	raining	K. Kusunose.
Miasaka	29.89	759.2	29.92	759.9	78.5	25.8	82	sw.	inap.	inap.			2 s		wsw.	0	0	fair	K. Masusaki.
Miyako	29.85	758.3	29.96	761.1	65.0	18.3	96	sw.					10 n			0.362	9.2	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.70	754.4	29.90	759.4	76.8	24.9	85	calm	0	0		0	0			0	0	clear	S. Takenayasu.
Niigata	29.82	757.4	29.85	758.2	71.8	22.1	90	se.	1.3	0.5			10 s		se.	2.225	56.5	covered	Satoo & Tomikawa.
Nohiru	29.91	759.7	29.93	760.1	65.1	18.4	98	n.	9.2	4.1			10 n			0.550	14.0	light rain	Yoshino & Midzushina.
Numazu	29.85	758.2	29.89	759.1	79.1	26.2	80	ssw.			4		10ks;s			0	0	cloudy	R. Kaneda.
Osaka	29.86	758.5	29.88	758.9	79.9	26.6	85	w.	11.7	5.2		0	0			0	0	clear	H. Omura.
Sakai	29.85	758.4	29.87	758.6	77.3	25.2	85	sw.			2		9 ks		sw.	0.067	1.7	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.74	755.4	29.89	759.1	77.0	25.0	88	calm			0	0	0			0	0	clear	S. Sakairo.
Tokei Obs'y, Yeddo	29.82	757.3	29.89	759.1	73.7	23.2	94	e.	4.4	2.0			10 s			0.025	0.6	covered	The Staff.
Wakayama	29.83	757.7	29.88	759.0	80.6	27.0	75	s;ssw.	5.8	2.6		0	3 ck			0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.95	760.7	30.14	765.5	73.0	22.8	60	ese.	20.0	8.9		0	2 k		ese.	0.06	1.5	clear	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.12	765.0	56.3	13.5	84	wnw.	0.9	0.4		5 c	5ck;s		se.	0.008	0.2	overcast	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.7	77.0	25.0	73	e.	1.6	0.8		6 ck	0	w.		0	0	fair	F. Quijano, C. E.
Sub-series.																			
Altata					74	23.3	85	e.			2	0	3 k		e.	0.20	5.1		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.78	756.4	29.78	756.4	60.4	15.8		ene.			4					0.091	2.3		
Groningen	29.71	754.5	29.76	755.9	57.9	14.4		nnw.			1					0.008	0.2		
Helder	29.78	756.4	29.78	756.4	59.2	15.1		nw.			2					0.016	0.4		
Hellevoetsluis	29.77	756.1	29.77	756.1	59.0	15.0	69	calm			0					0.185	4.7		
Utrecht	29.75	755.6	29.80	756.8	57.4	14.1	84	wsw.			2		5			0.177	4.5	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.86	758.4			80.8	27.1	72	nne.	0	0			6			0	0		Lt.J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.40	746.8	29.47	748.4	55.4	13.0	89	sse.	23.5	10.5			10			0.701	17.8		
Brono	29.40	748.2	29.50	749.2	55.0	12.8	89	n.			4		8			0.024	0.6		
Christiania	29.42	747.3	29.56	750.9	61.0	16.1	62	sw.	4	2			8			0.102	2.6		
Gjæsvær	29.40	746.8	29.43	747.4	48.2	9.0		w.			2		10						
Lodingen	29.47	748.6	29.52	749.8	52.2	11.2	72	sw.			3		8			0	0		
PORTUGUESE.																			
Angra, Azores					71.4	21.9	75	se.	4.9	2.2			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.21	767.2	30.29	769.4	73.4	23.0	50	nne.	4.3	1.9			4	n.		0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.94	760.5	30.27	768.9	67.6	19.8	41	n.	21.7	9.7			2			0	0		The Staff.
Ponta Delgada, Azores	30.42	772.7	30.49	774.5	70.9	21.6	69	calm	0	0			3			0	0		
Saint Paul de Loando	29.85	758.2	30.00	763.4	69.6	20.9	84	wnw.			2		10			0	0		
San Salvador, Congo	28.17	715.5	30.02	762.4	74.8	23.8	67	wnw.			2		9						
Serra da Estrella	25.49	647.5	30.21	767.4	53.1	11.7	37	nw.	9.8	4.4			3			0	0		
RUSSIAN.																			
Akmolinski	28.62	727.0	29.66	753.3	65.7	18.7	40	wnw.	11	5		0	3 k			0	0		Major K. Lasarew.
Archangel	29.89	759.3	29.91	759.8	55.2	12.9	98	se.	2	1			10			0.098	2.5	raining	Capt. Sselilwerstow
Ashurada	29.93	760.3	29.84	757.9	83.2	28.8	60	w.	7	3		0	1 k			0	0		
Astrakhan	30.04	763.1	29.97	761.3	79.9	26.6	45	s.	9	4		0	8 s			0	0	light clouds	Capt. Wisganow.
Baku	29.94	760.4	29.89	759.2	79.7	26.5	74	ese.	9	4		0	2 s			0	0		
Barnaul	29.22	742.2	29.71	754.6	57.4	14.1	51	w.	4	2			10			0.035	0.9		Meteorological Obs'y
Bielosersk	29.49	749.1	29.95	760.8	59.9	15.6	97	wnw.	2	1			10 s			0	0		
Dorpat	29.68	753.8	29.91	759.7	70.7	21.5	54	sse.	9	4		2 ck	0			0	0		Observatory.
Ekaterinburg	29.63	737.4	29.98	761.4	59.0	15.0	45	nnw.	11	5		2 c	0			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.48	748.9	29.91	759.7	80.4	26.9	37	ese.	9	2		2 ck	0			0	0		
Irkutsk	28.39	721.1	30.04	762.9	47.7	8.7	60	calm			0		1			0	0		
Kasalinsk					80.6	27.0	34	nw.	7	3		0	0						
Kasan	29.76	756.0	30.02	762.6	71.8	22.1	65	sse.	2	1		9c;ck	0			0	0		Observatory.
Kem	29.76	755.9	29.81	757.2	65.5	18.6	58	sw.	13	6		0	5 k			0	0		
Kertch	29.82	757.4	29.84	758.0	82.4	28.0	41	calm	0	0		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.32	744.8	29.93	760.2	74.3	23.5	47	s.	2	1		0	4 ks			0	0		Observatory.
Koslov	29.39	746.5	29.87	758.6	80.8	27.1	44	ese.	9	4		0	4 ks			0	0		
Libau	29.66	753.3	29.68	753.9	73.4	23.0	40	s.			6		3			0	0		E. Quaas.
Lugan	29.61	752.0	29.80	759.9	87.4	30.8	30	ene.	13	6			7			0	0		Meteorological Obs'y.
Moscow	29.46	748.2	29.91	759.7	71.1	21.7	63	calm	0	0		0	6 ks			0	0		Meteorological Obs'y
Nikolaiev	29.85	758.2	29.92	760.0	83.8	28.8	48	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					58.5	14.7	86	sw.	7	3		0	7 n						Iwanow.
Pekin, China	29.61	752.2	29.76	755.8	74.8	23.8	84	calm	0	0		0	6 k			0.173	4.4		Physical Observatory.
Petro-Alexandrovsk	29.60	751.8	29.93	760.2	85.3	29.6	19	nne.	2	1		0	0			0	0		
Petrozavodsk	29.71	754.7	29.90	759.5	65.5	18.6	60	w.	11	5		5 ck	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.34	745.3	29.82	757.4	74.5	23.6	51	se	22	10		5 cs	0			0	0	light clouds	
Poti	29.83	757.6	29.86	758.4	75.6	24.2	81	sw.	4	2		0	7 ks			0.472	12.0		
St. Petersburg	29.92	760.0	29.95	760.6	70.3	21.3	44	wsw.	4	2		0	3 kn			0.063	1.6		Central Physical Obs'y.
Samarkand	27.50	698.4	29.87	758.7	72.3	22.4	39	se.	5.4	1.5		0	0			0	0		
Semipalatinsk	29.09	738.9	29.73	755.1	61.0	16.1	71	w.	13	6			10			0.039	1.0		Major Lasarew
Sevastopol	29.64	752.8	29.84	758.0	81.0	27.2	62	wnw.	20	9		0	2 ks			0	0		
Staroi Bykhov	29.39	746.4	29.91	759.8	75.2	24.0	57	se.	7	3		0	5 k			0.039	1.0		
Tashkend Laboratory	28.26	717.9	29.84	757.9	80.6	27.0	34	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.50	724.0	29.85	758.2	78.8	26.0	47	calm	0	0		0	5 ks			0.374	9.5		Physical Observatory.
Vernoe	27.41	696.2	29.81	757.2	70.5	21.4	53	calm	0	0		1 c	0			0.138	3.5		
Viatka	29.47	748.4	30.09	764.2	58.5	14.7	72	e.	2	1			8			0	0		
Warsaw	29.27	743.4	29.67	753.6	74.8	23.8	54	ssw.	11	5		7 ck	0			0.315	8.0		Astronomical Obs'y.
Yeniseisk	29.85	758.1	30.13	765.3	50.2	10.1	55	e.	7	3			5			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	75.2	24.0	60	wsw.	5.6	2.5		0	3			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.17	766.4	30.23	767.9	64.6	18.1	61	n.	0.7	0.3			10			0.012	0.3	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.25	692.1	30.18	766.5	63.7	17.6	40	s.	3.1	1.4			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.5	30.14	765.5	72.7	22.6	28	nw.	8.9	4.0		2	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.97	761.3	30.11	764.7	81.1	27.3	47	sse.	2.7	1.2		3	2	se.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.47	748.6	30.23	767.9	59.9	15.5	90	e.	11.2	5.0		8 n	4 k	w.	w.	0.126	3.2	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.37	746.0	30.26	768.7	62.2	16.8	79	sw.	1.3	0.6			10			0.008	0.2	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.04	762.9	76.2	24.6	90	ese.	0.9	0.4		c;cs	k;s	n.		0.70	17.7	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.71	754.6	29.76	756.0	75.9	24.4	92	sse.	17.6	7.9			10 n			2.165	55.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.17	766.2	76.6	24.8	42	w.	10.6	4.7		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.92	760.0	30.01	762.3	82.4	28.0	84	se.	15.0	6.7		2 s	5 kn	ne.	e.	0.236	6.0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.64	752.8	29.68	753.8	54.7	12.6	91	s.			4		10			0.445	11.3		
Umea	29.61	752.0	29.66	753.3	56.5	13.6	89	sw.			4		9			0	0		
Hernosand	29.56	750.9	29.61	752.2	61.5	16.4	77	s.			4		8			0.008	0.2		
Stockholm	29.47	748.4	29.64	752.9	61.9	16.6	84	se.			2		10			0.020	0.5		
Wisby	29.54	750.3	29.60	751.8	68.0	20.0	66	s.			6		7			0	0		
Sub-series.																			
Upsala	29.54	750.4	29.63	752.6	63.1	17.3	82	se.	7.4	3.3			10		s.	0.264	6.7	raining	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.53	724.7	29.95	760.7	56.3	13.5	62	ssw.			3		10			1.000	25.4	covered	The Observatory.
Turkish.																			
Constantinople			29.84	757.9	80.6	27.0	52	ne.	17	7.5			1		ne.	0	0		The Observatory.
Valona			29.98?	761.4?	86.4	30.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.68	753.8	88.9	31.6	57	sw.			2		2 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.87	758.7	29.95	760.7	61.2	16.2	81	nw.	3	1.3		0	8 s		w.	0.32	8.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.14	765.5	44	6.7	93	w.	8	3.6		0	0			0.06	1.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	30.01	762.2	57	13.9	62	e.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.32	693.9	30.17	766.3	50	10.0	86	se.	1	0.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.13	765.3	69.5	20.8	92	nw.	1	0.4		0	fg;9ks;s		w.	0.09	2.3	threatening	Edward A. Beals.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	69	20.6	90	w.	12	5.4			10 s		sw.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	75.0	23.9	82	se.	2	0.9		4 k	0	s.		0	0	fair	D. J. Young.
Baltimore, Maryland	29.96	761.0	30.00	762.0	69	20.6	84	s.	4	1.8			10 ks		w.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	29.94	760.5	29.96	761.0	68.0	20.0	90	w.	18	8.0			10 s			inap.	inap.	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.73	755.1	29.75	755.6	42.5	5.8	98	nw.	13	5.8		0	0			inap.	inap.	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.72	729.5	30.31	769.9	46.0	7.8	86	nw.	1	0.4		4 ck	hz.	nw.		0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.44	697.0	30.28	769.1	60	15.6	78	calm	0	0		0	4 s			0	0	fair	Thomas Morgan.
Bismarck, Dakota	28.48	723.4	30.28	769.1	42	5.6	76	n.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	66	18.9	90	sw.	14	6.3			10 ks		sw.	inap.	inap.	threatening	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.03	762.7	46	7.8		w.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.72	754.9	29.87	758.7	62.5	16.9	86	s.	10	4.5			10 s		s.	0.01	0.3	light rain	O. B. Colt.
Brownsville, Texas	29.92	760.0	29.98	761.5	72.0	22.2	90	sw.	9	4.0			10 ks		w.	1.09	27.7	clearing	E. C. Imlay.
Buffalo, New York	29.33	745.0	30.06	763.5	50	10.0	90	w.	16	7.2		1 k	0	w.		0.19	4.8	clear	Wm. Finn.
Buford, Fort, Dakota	28.27	718.0	30.25	768.3	44	6.7	76	ne.	4	1.8		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.83	757.7	30.23	767.8	65.6	18.7	70	n.	12	5.4		0	0			0.18	4.6	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.79	756.7	29.99	761.7	55.1	12.8	98	n.	7	3.1		0	sk			inap.	inap.	dense smoke	O. D. Stewart.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	71.0	21.7	82	sw.	16	7.2			10 ks		sw.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.97	761.2	69.0	20.6	93	w.	24	10.7			10 s		w.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.35	745.5	30.03	762.7	56	13.3	74	nw.			2	0	sk.		nw.	0	0	dense smoke	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	83.5	28.6	67	calm	0	0		0	1 k		ne.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	78.0	25.6	90	sw.	3	1.3		0	fg.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.07	763.8	74.0	23.3	82	sw.	2	0.9		6 ck	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	68.5	20.3	92	nw.	1	0.4		7 ck	2s;fg	w.		0.21	5.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.36	618.7	30.22	767.6	51.8	11.0	74	sw.	1	0.4		0	0			0.04	1.0	clear	E. McGovern.
Chicago, Illinois	29.55	750.6	30.24	768.1	55.0	12.8	69	nw.	2	0.9		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.97	761.2	29.99	761.7	71	21.7	94	sw.	5	2.2			10s;hz		w.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.52	749.8	30.17	766.3	62.0	16.7	72	ne.	11	4.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.43	747.5	30.15	765.8	57.7	14.3	48	n.	13	5.8		2 k	0	n.		0.27	6.9	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.31	744.5	30.15	765.8	59	15.0	75	nw.	4	1.8		0	0			0.01	0.3	clear	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.12	765.0	70.0	21.1	76	calm	0	0		10 cs	0	e.		0	0	cloudy	J. McGlone.
Custer, Fort, M. T.	27.05	687.1	30.17	766.3	53	11.7	74	se.	5	2.2		8 c	0	s.		0	0	cloudy	T. Gibson.
Davenport, Iowa	29.03	752.6	30.28	769.1	49	9.4	77	n.	12	5.4		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.39	644.9	30.09	764.3	61	16.1	78	ne.	4	1.8			10 s		ne.	0	0	threatening	J. Williams.
Dayton, Washington T'y	28.25	717.5	30.00	762.0	62	16.7	72	e.	1	0.4			10 s			inap.	inap.	cloudy	D. Moore.
Deadwood, Dakota	25.59	650.0	30.15	765.8	54	12.2	77	s.	1	0.4		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	69	20.6	93	sw.	22	9.8			10 s		sw.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	25.05	636.3	30.16	766.1	59.5	15.3	60	s.	8	3.6		0	1 k			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.47	748.5	30.36	771.1	49	9.4	77	n.	2	0.9		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.50	749.3	30.19	766.8	51.0	10.6	80	w.	7	3.1		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.73	704.3	30.28	769.1	60	15.6	84	ne.	8	3.6		0	0			inap.	inap.	clear	J. H. Bryce.
Dubuque, Iowa	29.60	751.8	30.30	769.6	52.2	11.2	66	nw.	1	0.4		0	1ks;hz		n.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.54	750.3	30.28	769.1	48	8.9	77	w.	18	8.0		0	0			inap.	inap.	clear	N. B. Conger.
Eastport, Maine	29.74	755.4	29.81	757.2	54.5	12.5	93	s.	17	7.6			10n;fg		sw;s	inap.	inap.	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.48	698.0	30.17	766.3	60	15.6	84	e.	4	1.8		4 k	0	e.		0	0	fair	J. C. Rickli.
El Paso, Texas	26.46	672.1	30.11	764.8	68.0	20.0	49	calm	0	0		c	2 s		e.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.39	746.5	30.10	764.5	56	13.3	69	nw.	16	7.2		0	3 k		nw.	0.13	3.3	clear	C. A. Shaw.
Escanaba, Michigan	29.57	751.1	30.23	767.8	46.0	7.8	39	nw.	7	3.1		0	1 k			0	0	clear	George Heathcote.
Galveston, Texas	30.02	762.5	30.06	763.5	81	27.2	79	e.	0	2.7		6 cs	3 k		se.	0.14	3.6	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.57	751.1	30.23	767.8	54.0	12.2	74	n.	5	2.2		1 k	0	w.		inap.	inap.	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.39	644.9	29.99	761.7	77	25.0	27	e.	9	4.0		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	77.0	25.0	85	sw.	15	6.7		3 c	sk.	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.95	659.1	30.12	765.0	04	17.8	58	sw.	4	1.8		0	0			0	0	clear	I. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.96	735.6	30.34	770.6	41.8	5.4	90	e.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.18	766.6	57.0	13.9	74	ne.	2	0.9		0	0			inap.	inap.	clear	C. F. R. Wappenhans.
Indianola, Texas	29.97	761.2	30.00	762.0	75.2	24.0	99	e.	30	13.4			10 n		s.	4.30	109.2	thund'r st'm	I. A. Reed.
Jacksonville Florida	30.07	763.8	30.11	764.8	77.5	25.3	90	se.	2	0.9		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.66	753.4	30.31	769.9	53.5	11.9	76	nw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	80.0	26.7	82	calm.	0	0		0	4 ks			0.02	0.5	fair	A. W. Browne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	75	23.9	90	w.	15	6.7		4 c	0	w.		0.01	0.3	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.10	739.1	30.12	765.0	70	21.1	90	sw.	7	3.1			10 s		sw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.55	750.6	30.32	770.1	48	8.9	77	s.	4	1.8		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.47	748.5	30.35	770.9	57	13.9	69	n.	2	0.9		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.16	740.7	29.99	761.7	71.0	21.7	76	ne.	2	0.9			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	69	20.6	93	n.	4	1.8		0	3 s		n.	inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	62	16.7	87	se.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.57	751.1	30.12	765.0	64	17.8	73	n.	8	3.6		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.33	745.0	30.01	762.2	72	22.2	71	sw.	2	0.9		0	9 ks;s		sw.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.53	750.0	30.18	766.6	49.0	9.4	66	nw.	14	6.3		0	0			0.02	0.5	clear	D. B. Notson.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	79.0	26.1	88	sw.	18	8.0		0	4 k		sw.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.74	653.8	30.14	765.5	56	13.3	64	w.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.48	748.8	30.20	767.1	47.5	8.6	77	w.	5	2.2		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.14	765.5	68	20.0	93	nw.	11	4.9		2 cs	0	sw.		0.90	22.9	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.53	750.0	30.27	768.8	51	10.6	66	nw.	5	2.2		0	0			inap.	inap.	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	73	22.8	84	n.	2	0.9		4 k	hz.			0	0	fair	H. U. Jones.
Montgomery, Alabama	29.88	758.9	30.11	764.8	74	23.3	79	calm	0	0		4 cs	0			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.30	744.2	30.29	769.4	40	4.4	82	s.	4	1.8		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.60	599.4	29.75	755.6	34.5	1.4	100	nw.	56	25.0			10n;fg		nw.	0.43	10.9	light rain	S. W. Beall.
Nashville, Tennessee	29.52	749.8	30.11	764.8	70.0	21.1	94	nw.	4	1.8			10 ks		nw.	0.52	13.2	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.81	757.2	29.92	760.0	62	16.7	87	sw.	7	3.1		0	9 n		sw.	0.03	0.8	light rain	J. H. Sherman.
New London, Connecticut	29.91	759.7	29.96	761.0	64	17.8	100	sw.	4	1.8			9 s		nw.	0.03	0.8	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	79.0	26.1	74	ne.	4	1.8		2 c	5 s		nw.	0	0	fair	M. Herman.
New York, New York	29.80	756.9	29.97	761.2	63	17.2	90	sw.	7	3.1			10 s		sw	0	0	threatening.	H. J. Peurod.
Norfolk, Virginia	29.97	761.2	30.00	762.0	71.0	21.7	92	sw.	6	2.7			10 n		nw.	0.02	0.5	thnd'r storm	Wm. Davis.
North Platte, Nebraska	27.44	697.0	30.32	770.1	56.6	13.7	78	e.	4	1.8		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	52.0	11.1	93	calm	0	0			sk.			0	0	dense smoke	J. Dascomb.
Omaha, Nebraska	29.23	742.4	30.40	772.1	54.0	12.2	90	calm	0	0		0	0			0	0	clear	A. Pollak.
Ogglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.68	753.9	30.00	762.0	57.0	13.9	74	nw.	12	5.4		0	4 k		nw.	0.13	3.3	fair	J. G. Linsley
Palestine, Texas	29.59	751.6	30.14	765.5	72.0	22.2	76	n.	2	0.9		8ck;cs	fg.	ne.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	73.4	23.0	84	ne.	1	0.4		2 ck	5 s	ne.	e.	0	0	fair	M. McGauran.
Philadelphia, Pa	29.89	759.2	29.99	761.7	66	18.9	97	sw.	3	1.3			10s;fg		sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.20	463.8	30.24	768.1	33	0.6	85	sw.	34	15.2		0	1 s			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.33	745.0	30.12	765.0	60.0	15.6	60	n.	1	0.4		0	0			inap.	inap.	clear	G. C. Schaeffer.
Poplar River, Montana					54	12.2	37	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.45	748.0	30.12	765.0	48.3	9.1	86	nw.	7	3.1		0	0			0.13	3.3	clear	M. H. Perry
Portland, Maine	29.76	755.9	29.82	757.4	58.5	14.7	90	sw.	5	2.2			10 s		sw.	0.09	2.3	cloudy	W. W. Eichelberger.
Portland, Oregon	29.90	759.4	29.97	761.2	62.5	16.9	80	w.	2	0.9			sk.			inap.	inap.	dense smoke	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.96	634.0	30.06	763.5	55	12.8	55	s.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.88	758.9	29.91	759.7	64	17.8	92	sw.	10	4.5			10 n		w.	inap.	inap.	light rain	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.63	752.6	29.98	761.5	63	17.2	47	n.	1	0.4		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.03	762.7	60	15.6	87	e.	3	1.3		0	sk.			0.12	3.0	dense smoke.	J. J. Nanry.
Sacramento, California	29.90	759.4	29.97	761.2	61.0	16.1	78	se.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.70	754.4	30.29	769.4	58.4	14.7	77	n.	9	4.0		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.83	757.7	29.86	758.4	53	11.7	93	e.	0	2.7			10 n			0.05	1.3	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.48	748.8	30.33	770.4	47.5	8.6	80	nw.	2	0.9		0	hz.			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.34	715.2	30.20	767.1	36	2.2	100	sw.	4	1.8		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.82	655.8	30.06	763.5	69	20.6	39	nw.	9	4.0		5 k	0	sw.		inap.	inap.	fair	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	68.0	20.0	90	nw.	3	1.3			10s;fg			0	0	cloudy	F. R. Day.
Sanford, Florida	30.02	762.5	30.06	763.5	76.4	24.7	90	n.	4	1.8		4 cs	fg.	e.		inap.	inap.	fair	J. B. Marbury.
Sandusky, Ohio	29.51	749.5	30.18	766.6	58	14.4	58	n.	21	9.4		0	1 k		n.	0.20	5.1	clear	B. F. Hough.
Sandy Hook, New Jersey	29.93	760.2	29.96	761.0	65.0	18.3	84	w.	15	6.7			10 ks		w.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	56	13.3	90	s.	6	2.7			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	73.5	23.1	86	s.	4	1.8		0	fg.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.49	672.8	30.10	764.5	50	10.0	93	sw.	3	1.3		4 k	0	w.		0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.92	760.0	30.16	766.1	74.0	23.3	79	ne.	4	1.8			10 s		ne.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.98	736.1	30.20	767.1	70	21.1	84	ne.	8	3.6		0	0			inap.	inap.	clear	W. M. Mattingly.
Sitka, Alaska	30.00	762.0	30.06	763.5	52	11.1	86	w.	3	1.3			10 ks		w.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.73	755.1	30.20	767.1	69.1	20.6	90	calm	0	0		2 c	fg.			inap.	inap.	clear	J. B. Campbell.
Smithville North Carolina	30.05	763.3	30.09	764.3	78.5	25.8	84	sw.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.95	760.7	65	18.3	93	e.	1	0.4		8 ck	sk.			0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.59	751.6	30.26	768.6	53	11.7	69	n.	8	3.6		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.15	689.6	30.11	764.8	71	21.7	64	calm	0	0			10 s			0	0	cloudy	Louis Dorman.
Thomas, Camp, Arizona					63	17.2	68	s.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.50	749.3	30.18	766.6	53	11.7	72	n.	7	3.1		0	0			inap.	inap.	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskka, Alaska	29.08	753.9	29.70	754.4	51	10.0	80	se.	8	3.6			10 s			0.12	3.0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					63	17.2	36	sw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.87	758.7	30.12	765.0	74.4	23.0	80	ne.	1	0.4		6 cs	0			0	0	fair	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	68.1	20.1	89	s.	1	0.4			10 s		s.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.38	670.0	30.20	767.1	62.5	16.9	75	e.	14	6.3			10 n		w.	0.53	13.5	thund'r st'm	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	76.0	24.4	88	sw.	1	0.4		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	29.06	738.1	30.35	770.9	43.7	6.5	100	n.	1	0.4			fg.			0	0	dense fog	E. H. Thompson.
Yuma, Arizona	29.69	754.1	29.83	757.7	79.5	26.4	68	ne.	2	0.9		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					79	26.1		nw.			2		9 n		n			raining	W. H. Jackson.
Bogota, U. S. C.	22.07	560.7			45.5	7.5	81	calm	0	0		0	1 s			0.012	0.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3	79.7	26.5	81	n.	1	0.4		2 cs	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	79	26.1	82	se.			3	5 k	3 s	se.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.40	746.7	29.90	761.0	78	25.6	95	calm			0	6 ck	4 ks	calm	calm	0	0	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					78.5	25.8	88	ne.			2	0	0			0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	30.04	763.0	30.10	764.5	41.0	5.0	100	sw.	9	4.0			10 n		sw.	0.60	15.2	raining	Fortescue & W[illegible]

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 36° 31′, E. 23° 00′	29.85	758.2	89	31.7	80	nne.			3							sm'h		blue sky.
H M. S. Coquette, N. 39° 38′, E. 19° 56′	29.94	760.5	82	27.8		e.			1		2					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.20	767.1	79.5	26.4	82	wsw.			2		3	wsw.						d. clouds.
H. M. S. Iris, Port Said. Egypt	29.76	755.9	81	27.2	91	wsw.			2		0							blue sky.
H. M. S. Tenedos, St. Johns, N. F.	30.20	767.1	53	11.7	86	wsw.			1		4	calm						d. clouds.
U. S. Navy Yard, Portsmouth, N. H.*	29.79	756.7	60	15.6	94	sw.	8	3.6			10		sw.	0.1	3.			cloudy.
U. S. S. Alliance, Magdalen Isl'ds, Gulf St. Lawrence	29.89	759.2	57	13.9	81	sw.			6		5			0	0	mod.	sw.	fair.
U. S. S. Galena, New York, N. Y	29.97	761.2	66	18.9	89	wsw.			3		10					sm'h		cloudy.
U. S. S. Jamestown, Gibraltar, Mediterranean	30.15	765.8	73	22.8	81	wsw.			1		0							hazy
U. S. S. Kearsarge, N. 40° 07′. W. 38° 12′	30.35	770.9	77	25.0	82	s.			3		5		se.			sm'h		fair.
U. S. S. Lancaster, Villefranche, France	29.71?	754.6?	65	18.3	84	nw.			6		2		nw.			r'gh	nw.	fair.
U. S. S. Portsmouth, Provincetown, Mass	29.90	759.4	62	16.7	100	sw.			4		10		w.					rainy.
U. S. S. Powhatan, New York, N. Y	29.96	761.0	64	17.8	94	wsw.			2		10		wsw.					overcast.
U. S. S. Quinnebaug, N. 50° 11′. W. 3° 38′	29.97	761.2	57	13.9	?	n			5		2		w.			long	w.	fair.
U. S. S. Saratoga, Stratford Point Light, Conn	29.96	761.0	68	20.0	95	wsw.			4		0			light	light	sm'h	wsw.	raining.
U. S. S. Swatara, Madame Island, N. S	30.06	763.5	59	15.0	76	ne.			3		10		ne.	0	0	sm'h		cloudy.
U. S. S. Vandalia, Quebec, Canada	29.73	755.1	60	15.6	88	nw.			4		5							fair.
U. S. S. Yantic, N. 66° 50′ W. 55° 34′	29.28	743.7	43	6.1	83	ene.			4		10					sm'h		drizzling.
S. S. British Crown, N. 47° 46′, W. 43° 30′†	30.36	771.1	62	16.7		wsw.			3		0			0	0	h'vy	sw.	clear.
S. S. British Prince, N. 51° 32′, W. 8° 49′*†	29.98?	761.5?	56	13.3		nne.			3		9?		nne.	0	0	mod	nw.	clear.?
S. S. Lord Clive, N. 42° 11′. W. 59° 29′	30.19	766.8				s.			4		5		sw.	0	0	sm'h		fine.
S. S. Ohio, Liverpool, Eng†	29.93	760.2	69	20.6	65	nw.			4		4		wnw.	7 h'r	7 h'r			clear.
S. S. Circassian, N. 55° 18′ W. 42° 28′	29.45	748.0	45	7.2	92	wsw.			9		10		wsw.			8	sw.	showery.
S. S. Grecian, N. 49° 00′. W. 63° 42′	29.70	754.4	51	10.6	100	s.			7		10		sw.	1 h'r	1 h'r			raining.
S. S. Nova Scotian, N. 48° 45′, W. 48° 19′	30.22	767.6	54	12.2		s.			3		10		wnw.			mod.	w.	cloudy.
S. S. Prussian, Boston, Mass	29.83	757.7	65	18.3		sw.			4		10			1 h'r	1 h'r			
S. S. Scandinavian, N. 45° 55′. W. 49° 04′	30.26	768.6	57	13.9		sse.			1		k			0	0	con.	var.	blue sky.
S. S. Jason, N. 49° 47′, W. 6° 02′†	30.04	763.0	59.0	15.0		sw.			6		9 n					2-3	sw.	raining.
S. S. Alvo, N. 24° 12′, W. 74° 18′*	30.05	763.3	80	26.7		ese.			5		8		ese.	1 h'r	1 h'r	long	ese.	cloudy.
S. S. Andes, N. 23° 30′, W. 82° 30′*†	30.06	763.5				calm			0									
S. S. Avilla, San Juan, Porto Rico*†	30.00	762.0	83	28.3		ene.			3		7		ene.	rain	rain			
S. S. Australia, Malaga, Spain						calm			0		0			0	0			
S. S. Dorian, N. 46° 14′, W. 9° 20′	30.11	764.8	58	14.4		nw.			5		10		nnw.	shr's	shr's	r'gh	w.	hazy.
S. S. Furnesia New York, N. Y†	29.97	761.2	68	20.0	84	wsw.			4		10		wsw.	0	0			overcast.
S. S. Galatia, Port Said, Egypt *†	29.74	755.4	90	32.2	84	nnw.			2		0			0	0	sm'h		clear.
S. S. Landaff City, N 41° 40′, W. 54° 15′†	30.18?	766.6?	64	17.8		ene.			4		3			0	0	sm'h		clear.
S. S. Bothnia, N. 40° 32′, W. 73° 00′	29.93	760.2	69	20.6	?	s.			2		10		s.	2 h'r	2 h'r	sm'h	s.	gloomy.
S. S. Pavonia, N. 49° 24′, W. 29° 07′*	30.13?	765.3?	63	17.2	94	wsw.			5		10		wsw.	9 h'r	9 h'r	mod.	wsw.	squally.
S. S. Scythia, N. 49° 16′, W. 28° 28′	30.16	766.1	63	17.2	100	wsw.			1		10			0	0	mod.	w.	foggy.
S. S. Samaria, N. 46° 13′, W. 41° 27′			64	17.8		nne.			4		3		ne.	4 h'r	4 h'r	mod.	n.	fair.
S. S. Canada, N. 49° 27′, W. 25° 58′	30.22	767.5	57.2	14.0		wsw.			5							r'gh	ssw.	
S. S. Ville de Bordeaux, N. 41° 25′, W. 20° 57′*†	30.55?	770.0?	67	19.4		nne.			3		2		n.	0	0	long	nne.	clear.
S. S. Wisconsin, N. 41° 00′, W. 69° 15′			68	20.0		calm			0		0			0	0	sm'h		clear.
S. S. Bohemia, N. 47° 02′, W. 43° 37′†	30.36	771.1				n.			3-5		6		nw.	2 h'r	2 h'r	long	nnw.	fine.
S. S. Gellert, New York, N. Y	29.98	761.5	70	21.1	100	sw.			1		8		sw.	0	0			cloudy.
S. S. Silesia, N. 44° 30′, W. 50° 15′	30.34	770.6	59	15.0		nw.			1					0	0	mod.	wnw.	fair.
S. S. Westphalia, N. 50° 05′, W. 33° 07′			59	15.0	88	wnw.			5		8		w.	mist	mist	mod.	w.	fair.
S. S. Rhaetia, Havre, France*	29.82	757.5	57	13.9		wsw.			6		10		n.	10 h'r	10 h'r			stormy.
S. S. Bulgarian, N. 42° 42′, W. 66° 17′*	30.01	762.2				s.			3		1		s.	0	0	light	ssw.	fine.
S. S. Virginian, N. 45° 31′ W. 40° 39′*	30.24	768.1	61	16.1		ene.			4		10		e.	sli't	sli't	sm'h		drizzling.
S. S. Archimedes, N. 38° 38′ W. 72° 29′	29.95	760.7				w.			1-2		8		nw.	0	0	sm'h		light haze.
S. S. Rosse, N. 40° 08′, W. 58° 00′			72	22.2		ssw.			2		0			0	0	sm'h		clear.
S. S. Chalmette, N. 27° 40′, W 80° 06′†	30.10	764.5	78	25.6		sse.			5		10		sse.	4 h'r	4 h'r	sm'h	sse.	cloudy.
S. S. Allegheny, Baltimore, Md †.	30.01	762.2	68	20.0		w.			4		0			0	0			clear.
S. S. Archimede, Palermo, Sicily †	30.07?	763.8?	85	29.4		nw.			4		4		nw.	0	0			fair.
S. S. City of Merida, N. 39° 47, W. 74° 10′ *†	29.90?	759.4?	74	23.3		sw.			4		1?		sw.	½ h'r	½ h'r	r'gh	ne.	cloudy?
S. S. Canada, N. 45° 29′. W. 37° 47′			64	17.8		n.			5		10		calm	0	0	sm'h		overcast.
S. S. Denmark, London, Eng†	29.82	757.4	62	16.7		nnw.			6		8		nnw.	12 h'r	12 h'r			fair.
S. S. Egypt, Mersey river, Eng	30.04?	763.0?	50	10.0		nw.			4		5		nw	0	0			fair.
S. S. England, N. 45° 52′, W. 42° 07′	30.22	767.6				e.			3		10		e.	0	0	sm'h		overcast.
S. S. Holland, N. 48° 31′, W. 14° 18′	30.17	766.3	65	18.3		wnw.			3		10		nnw.	3 h'r	3 h'r	mod.	wnw.	hazy.
S. S. The Queen, St. Georges Channel	29.86?	758.4?	61	16.1		n.			6		5		n.	4 h'r	4 h'r	mod.	n.	fair.
S. S. Donau. N. 44° 14′, W. 55° 25′	30.28?	769.1?				s.			3		1		s.	0	0	mod.	s.	clear.
S. S. Elbe, N. 49° 41′, W. 18° 54′	30.20	767.1	61.7	16.5	95	w.			4		10			0	0	long	wsw.	foggy.
S. S. Gen. Werder, N. 50° 09′ W. 33° 34′	30.23	767.8				wnw.			5-6		8		wnw.	2 h'r	2 h'r	r'gh	wnw.	cloudy.
S. S. Neckar, N. 48° 53′, W. 37° 00′	30.27	768.8	59.0	15.0	70	nw.			2-3		8		nw.	rain	rain	r'gh	wnw.	cloudy.
S. S. Oder, N. 50° 03′, W. 3° 50′	29.96	761.0	60.8	16.0		nw.			4		2		wnw.	6 h'r	6 h'r	long	wsw.	clear.
S. S. Ohio, N. 40° 42′ W. 65° 53′	30.01	762.2				sw.			2		10		w.	4 h'r	4 h'r	mod	sw.	rainy.
S. S. Salier, N. 44° 40′, W. 52° 30′*	30.26	768.6	59.0	15.0	58	e.			1-2		2		ese.	0	0	high	n.	clear.
S. S. Strassburg, N. 44° 27′ W 53° 18′	30.26	768.6	60.0	15.6	54	sw.			1-2		3		sw.	0	0	2	var.	clear.
S. S. City of Augusta, Savannah, Ga †	30.19	766.8				nne.			2		6		nne.	0	0			foggy.
S. S. Muriel, St. Thomas, W. I.	29.94	760.5	85	29.4		ene.			4		10			light	light	sm'h		threatening.
S. S. Orinoco, New York, N. Y*†	29.94	760.5	66	18.9		wsw.			2		9		wsw.	shr's	shr's			cloudy.
S. S. Belgenland, N. 43° 00′, W. 52° 30′†	30.36?	771.1?	62	16.7	100	ne.			1		2		ene.	0	0	long	sse.	clear.
S. S. Nederland, N. 50° 19′, W. 13° 56′			59	15.0	48	w.			2		10		w.	5 h'r	5 h'r	cross	w.	overcast.
S. S. Rhynland, Antwerp, Belgium	29.76	755.9	59	15.0	94	calm			0		3			0	0			clear.
S. S. Pennland, N. 50° 07′, W. 3° 25′	30.01	762.2	60	15.6	88	n.			5		0			10 h'r	10 h'r	mod	nnw.	clear.
S. S. Vaderland, N. 50° 44′, E. 0° 13′			59	15.0		nne.			5		4?		n.	3 h'r	3 h'r	sm'h		overcast.?
S. S. Waesland, N. 41° 01′. W. 67° 12′	30.00	762.0	64	17.8		ssw.			3		2		wsw.	0	0	sm'h	wsw.	clear
S. S. Zeeland, Antwerp, Belgium *†	29.75	755.6	58	14.4		w.			5		1		w.	0	0			clear.
S. S. P. Caland, N. 50° 02′, W. 14° 00′ *†	30.07	763.8	64.0	17.8	94	w.			3		10		w.			4	w.	foggy.
S. S. W. A. Scholten, N. 47° 44′, W. 39° 23′	30.41?	772.4?	59.0	15.0	78	nne.			6		6		n	2 h'r	2 h'r	6	wnw.	foggy.
S. S. Belize, Port Antonio, Jamaica, W. I.			89	31.7		calm			0		6		se.	4 h'r	4 h'r	sm'h		fair
S. S. Valencia, Cxracoa. W. I†	29.99	761.7	85	29.4	72	ne.			4		3		ene.	2 h'r	2 h'r			clear.
S. S. State of Indiana, N. 40° 37′ W 69° 12′*†	29.95	760.7	59	15.0		sw.			2		3		w.	0	0	sm'h		clear.
S. S. State of Nevada, New York, N. Y †.	29.98	761.5	68	20.0		wsw.			2		2?		wsw.	0	0			cloudy?
S. S. State of Alabama, N. 40° 33′. W. 52° 41′			67	19.4		ene.			2		2		e	0	0	sm'h		
S. S. Thingvalla, Copenhagen. Denmark			56.3	13.5		sw.			3		10		sw.	5 h'r	5 h'r			covered.
S. S. Romano, N. 49° 50′, W. 6° 06′*†	30.04	763.0	58	14.4		wnw.			5		4		nw.	0	0	mod.	w.	fair.
S. S. Salerno, N. 40° 47′, W. 70° 54′*†	30.06?	763.5?	62	16.7		wsw.			3		6		wsw.	0	0	sm'h	w.	hazy.
S. S. Lake Manitoba, N. 56° 22′, W. 24° 20′	29.59	751.6	57	13.9		sw.			5		7		sw.	7 h'r	7 h'r	mod.	sw.	fair.
S. S. Daniel Steinmann, N. 43° 13′ W. 57° 47′ *†	30.28?	769.1?	60	18.9		se.			1		0			0	0	sm'h		clear.
S. S. Plantyn, N. 49° 29′, W. 19° 11′									4		5		w.			sm'h	w.	fair.
S. S. Saxon, Boston, Mass †	29.94	760.5				sw.			2		10			light	light			raining.
S. S. Adriatic, N. 43° 28′, W. 59° 35′ *†	30.20?	767.1?	57	13.9		wsw.			3				w.	0	0	sm'h	wsw.	clear.
S. S. Celtic, N. 48° 06′, W. 32° 41′†	30.19	766.8	62	16.7	77	n.			4		8		n.	5 h'r	5 h'r	sm'h		overcast.
S. S. Iowa, N. 49° 25′, W. 41° 54′†	30.31?	769.9?	61	16.1		w.			5		3		w.	0	0	r'gh	w.	clear.
S. S. Algiers, N. 24° 50′ W. 80° 25′*†	30.08	764.0				se.			1							sm'h		raining.
S. S. City of Alexandria, Havana, Cuba *†	30.02	762.5	81	27.2		calm			0									d. clouds.
Bg. Abbie Clifford, N. 42° 00′, W. 69° 55′†	30 04?	763.0?	63	17.2		sw.			6		10		w.			sm'h		threatening.
Schr. Arthur Burton, N. 39° 00′, W. 73° 00′ †	30.03?	762.7?				sw.			2		2		wsw.	0	0	r'gh	sw.	clear.
Schr. Abbie H. Gheen, Philadelphia, Pa †	30.03	762.7	68	20.0		wnw.			2									cloudy.
S. S. Antonio Lopez, Havana, Cuba	30.06	763.5	75	23.9	95	ese.			1		2			1 h'r	1 h'r			clear.
Bk. Aquidneck, N. 30° 32′, W. 68° 19*†	30.30?	769.6?	89	31.7		se.			1				s.	0	0	light	ne.	clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bg. Alcira, N. 30° 31′ W. 73° 56′	30.17	766.3	82	27.8		s.			4		10		s.	0	0		se.	cloudy.
Bgt. Achsah, N. 13° 51′, W. 59° 51′†	29.95	760.7	85	29.4		se.			4		4		se.	0	0	cross	se.	fair.
Bk. Aureola, N. 28° 00′, W. 23° 50′†	30.20	767.1	80	26.7		ne.			4		5		ne.	0	0	mod.	ne.	fair.
Bk. Adelaide, N. 33° 01′, W. 53° 58′ *†	30.37?	771.4?				wnw.			4		1		nw.	0	0	light	wnw.	clear.
Bg. Belle of the Bay, N. 34° 13′, W. 74° 22′†	30.11	764.8				sw.			6		6		s.	0	0	r'gh	sw.	fair.
S. S. Burswell, N. 42° 00′, W. 45° 16′ *†	30.14?	765.5?	76	24.4		ssw.			2		8		wsw.	3 h'r	3 h'r	light	wsw.	raining.
S. S. Cannonbury, N. 5° 25′, W. 48° 52′ *†	30.10?	764.5?				var.			1		6		e.	2 h'r	2 h'r	sm'h		fair.
Bk. Celestina, N. 40° 41′ E. 3° 52′ *†	30.17?	766.3?				sw.			3		1			0	0	r'gh	var.	clear.
Bk. Childwall, N. 46° 20′, W. 10° 00′			62	16.7	94	wnw.			6		10		w.	rain	rain	r'gh	w.	raining.
Bk. Cato, N. 45° 16′ W. 13° 30′ †	30.25	768.3				w.			4		3?		nw.			long	nw	cloudy.?
Bk. Don Justo, N. 58° 19′, E. 2° 00′						nnw.			5		10		nnw.	1 h'r	1 h'r	r'gh	nw.	overcast.
Bg. Daphne, N. 36° 30′, W. 65° 21′ *†	30.30?	769.6?	79.5	26.4		sw.			2		2		ssw.	0	0	light	sw.	clear.
S. S. State of Nebraska, N. 49° 53′, W. 40° 52′ *†	30.23	767.8	52	11.1		nw.			5		2		nw.	0	0	high	nw.	clear.
S. S. D. J. Foley, N 21° 50′ W. 74° 10′ *†	29.95?	760.7?	85	29.4	83	ne.			4		3		ne.	0	0	long	ne.	hazy.
Bkt. David A. Preston, N. 43° 55′. W. 68° 35′						sw.			3		2		nw.	2 h'r	2 h'r	sm'h		threatening.
S. Dora, N. 47° 12′ W. 33° 13′ *†	30.28?	769.1?	52.6	17.0		nnw.			4–5					8 h'r	8 h'r	mod.	sw.	hazy.
S. David Stewart, N. 38° 51′ W. 45° 43′ †	29.88?	758.9?	88	31.1		var.			2		5		sse.	8 h'r	8 h'r	mod.	ene.	
S. E. J. Spicer, Antwerp, Belgium	29.83	757.7	61	16.1	94	ese.			3		1?		w.	1 h'r	1 h'r			cloudy.?
Schr. Edith R. Seward, Doboy Island, Ga†	29.97?	761.2?	80	26.7		sw.			1		3		wsw.	0	0			clear.
Bk. E. D. Bigelow, N. 27° 39′ W. 89° 17′ †	30.07	763.8	90?	32.2?		nnw.			1		2		ne.	0	0	sm'h		clear
Bk. Edmund Phinney, N. 12° 30′ W. 46° 03′ †	30.08	764.0				wsw.			2		10			3 h'r	3 h'r	mod.	var.	raining.
Bk. E. L. Pettingill, N. 12° 30′ W. 34° 40′ *†	30.15?	765.8?	80	26.7		ene.			4		2		e.	0	0	mod.	se.	clear
S. Festina Lente, Pilgrims Islands, Canada						wnw.			5		4		wnw.	11 h'r	11 h'r			clearing.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	29.99	761.7	65	18.3		sw.			5		8		sw.	0	0			cloudy.
Bg. George, N. 30° 08′ W. 60° 42′ *†	30.23	767.8	81	27.2		ene.			1		2			0	0	mod.	se.	fair.
Bk. Galeon, N. 50° 05′, W. 4° 40′†	29.96?	761.0?	59	15.0		nw.			5		1		nw.	2 h'r	2 h'r		sw.	blue sky.
Bk. Grey Eagle, N. 31° 27′ W. 53° 07′ *†	30.15?	765.8?				wnw.			1		1		w.	0	0	sm'h		clear.
Bg. Giles Loring, N. 28° 01′ W. 73° 46′ *†	30.25?	768.3?	86	30.0	80	ese.			4		5		e.	0	0			fine.
S. Hedwig, N. 37° 44′ E. 3° 00′	30.16?	766.0?	74.3	23.5	65	nw.			2		1			0	0	3	w.	fine.
Schr. Isabel Alberto, N. 26° 08′ W. 76° 44′ †	30.09	764.3				w.			1		10		var.	hv'y	h'vy	high	se.	squally.
Bkt. Josephine, N. 30° 33′ W 70° 28′ †	30.18	766.6	83	28.3	71	sse.			3		2			½ h'r	½h'r	sm'h	sse.	fair.
Bk. Johanne, N. 53° 42′, E 4° 00′*†	29.75	755.6	64	17.8		nnw.			5		8		n.	0	0	mod.	nnw.	fine.
Schr. John L. Thomas, Vivorilla Cays, C. A *†	29.90	761.0	85	29.4	83	ene.			2		2		e.	0	0			clear.
Schr. Jennie N. Huddell, Boston, Mass†	29.92	760.0	62	16.7	94	sw.			5		10		nw.	light	light			cloudy.
Bg. Josefa, Bristol, Eng †	29.97	761.2				ne.			2		4		ene.	4 h'r	4 h'r			fair.
Bk. Lady Hincks, N. 43° 28′, W. 17° 05′ *†	30.30	769.6				wnw.			4–5					0	0			
Bg. L. & W. Armstrong, St. Pierre, Martinique, W.I†	30.02	762.5				s.			9		7		s.	10 h'r	10 h'r	h'vy	wsw.	clearing.
S. S. Madrid, N. 42° 04′, E. 11° 05′ †	29.88	758.9	75	23.9	77	w.			5		hz.			4 h'r	4 h'r	mod.	w.	fair.
Bk. Mohican, N. 6° 46′ W. 33° 31′	29.91?	759.7?	78	25.6		s.			1		9		s.	14 h'r	14 h'r	r'gh	se.	cloudy.
Schr. Norena, N. 22° 19′, W. 64° 56′†	30.11	764.8				e.			4		1		e.	0	0	light	ene.	fine.
Bk. Orpheus, N. 58° 24′, W. 17° 49′	29.75	755.0	58	14.4		s.			6		10			0	0	mod.		cloudy
Bk. Ottawa, N. 42° 05′ W. 63° 30′	29.98	761.5	63	17.2		sse.			4		3		nw.	0	0	mod.	wsw.	fair.
S. Paramita, N. 40° 54′ W. 70° 01′†	29.90	759.4	64	17.8		var.			1–2		4		sw.	0	0	sm'h		fair.
Schr. Rollin Sanford, N. 26° 55′ W. 83° 18′ *†	30.06	763.5				e.			2		5		e.	0	0	sm'h		fair.
Bg. Rising Sun, San Juan, Porto Rico, W. I †	30.00	762.0	83	28.3		ene.			4		10		ese.	0	0			cloudy.
Bgt. Sunlight, Demerara, British Guiana*†	29.94	760.5				e.			3		3		ese.	0	0			fair.
Bk. Scud, N. 39° 00′ W. 69° 48′ *†	30.22	767.0	85	29.4		se.			4		3		se.	0	0	sm'h		fine.
Bk. Southern Belle, off Cape Trafalgar, Spain†	30.10	764.5				ne.			2									clear.
Bk. Tuck Sing, off Cienfuegos Light, Cuba*†	30.01	762.2				se.			2		0			0	0	sm'h		fine.
S. S. Tower Hill, N. 49° 10′ W. 2° 16′ *†	30.29?	769.4?				w.			4		5		w			high	nw.	fair.
Schr. Viola Reppard, Baltimore, Md †	30.02	762.5	72	22.2										0	0			fair.
Bgt. Willie, N. 11° 40′ W. 37° 20′ *†	30.05	763.3	86	30.0		ene.			1		4		ene.	light	light	mod.	cross	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.07	763.8	69	20.6	82	calm			0		0							misty.
H. M. S. Opal, Elephant Bay, Benguela	30.05	763.3	68	20.0	90	nnw.			1		5	ssw.						d clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.04	763.0	49.7	9.8	96	s.			5		10					4	s.	misty.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.98	761.5	53	11.7	93	s.	8	3.6			10		calm	0.18	4.6	sm'h		rain & fog.
U. S. S. Nipsic, Montevideo, Uruguay *	29.99	761.7	53	11.7	93	sw.			3		10					sm'h	sw.	misty.
S. S. Hevelius, Rio de Janeiro, Brazil *†	30.25	768.3	74	23.3		ese.			2		0		nw.	0	0	sm'h		hazy.
Bk. Great Surgeon, S. 9° 17′ W. 28° 35′ *†	30.30	769.6	77	25.0		se.			4		3		se.	½h'r	½h'r	short	se.	fair.
S. Gatherer, S. 20° 00′ W. 34° 00′ *	30.16	766.1	74	23.3	68	var.			3		2		ne.	0	0	sm'h	sse.	clear
Bk. Godeffroy, S. 41° 11′ W. 57° 26′	30.08	764.0				e.			3	k	6?		wnw.	2 h'r	2 h'r	mod.	var.	clear.?
Bkt. Louise Adelaide, N. 3° 12′ W. 29° 10′ †	30.06	763.5	82	27.8		se.			4		2			1 h'r	1 h'r	long	s.	clear.
S. S. Olbers, Bahia, Brazil	30.26	768.6	77	25.0	82	calm			0		10			0	0	sm'h		overcast.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.97	761.2	60	15.6		nnw.			2–5		10	wnw.						raining.
Bg. John Wesley, Rio de Janeiro, Brazil *†	30.08	764.0	73	22.8		calm			0		0			0	0			hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.83	757.7	66	18.9	74	se.			1		1		e.			sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 20′ E. 125° 58′	29.80	756.9	72	22.2	90	sse.			1		0							misty.
H. M. S. Magpie, N. 5° 27′ E. 119° 10′	29.80	756.9	81.5	27.5	78	sse.			1		0							blue sky.
H. M. S. Mutine, N. 24° 49′ W. 114° 40′	29.93	760.2	73	22.8		nw.			3		3					2	nw.	blue sky.
H. M. S. Zephyr, N. 42° 24′ E. 135° 05′	29.89	759.2	70	21.1	?	ese.			2		10					2	se.	d. clouds.
H. P. M S. Tamega, Macao, China	29.77	756.2	84.6	29.2	71	e.			2		8			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.92	760.0	75.5	24.2	98	calm			0		0			sli't	sli't			clear.
U. S. S. Essex, Nagasaki, Japan	29.92	760.0	83	28.3	75	calm			0		0					sm'h		clear.
U. S. S. Monocacy, Roze Id, Corea	29.81	757.2	73	22.8	85	ese.			2		0					sm'h		clear.
U. S. S. Palos, Hong Kong, China	29.85	758.2	82	27.8	83	se.			1		5		calm					fair.
U. S. S. Pensacola, N. 20° 35′, W. 162° 02′ *..	30.00	762.0	79	26.1	78	ene.			3		2		ene.	0	0	sm'h		fair.
U. S. S. Richmond, Yokohama, Japan	29.87	758.7	79	26.1	95	calm			0		7		ne.	0	0			fair.
S. S. Coptic, N. 34° 16′, E. 138° 26′	29.90	759.4	82.5	28.1	85	sw.			2		8			0	0	sm'h		blue sky.
S. S. Oceanic, N. 44° 29′, E. 167° 14′	29.62	752.3	60	15.6	94	ne.			4		10		ne.	sh'rs	sh'rs	con.		showery.
S. S. Columbia, Columbia River, Oregon†	29.99	761.7	61	16.1	88	calm			0		2		calm					smoke & fog.
S. S. Oregon, N. 46° 11′, W. 123° 50′†	30.03	762.7	55	12.8	93	sse.			2		2		nw.			sm.h		hazy.
S. S Ancon, San Francisco, Cal†	30.00	762.0	56	13.3	94	s.			1		2							fair.
S. S. State of California, San Francisco, Cal †	30.05	763.3	53	11.7	93	sw.			2		10							foggy.
S. S. Queen of the Pacific, Columbia River, Oregon †..	30.03	762.7	57	13.9	94	nw.			4		0			0	0	sm'h		foggy.
S. S. City of New York, N. 35° 50′ W. 131° 06′ †	30.21?	767.3?	67	19.4	74	ne.			2		0					sm'h		clear.
S. S. City of Pekin, N. 38° 21′, W. 125° 06′†	30.11	764.8	58	14.4	94	nnw.			5		10		nnw.	0	0	sm'h		cloudy
S. S. City of Tokio, N. 35° 52′ E. 139° 14′ †	30.00?	762.0?	78	25.6	86	n.			5		3		nnw	0	0	small	sw.	clear.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.81	757.2	83	28.3	83	ene.			2		7		ne.	0	0	sm'h		cloudy.
S. S. Colima, La Libertad, San Salvador†	29.94	760.5	82	27.8	67	n.			3		3		calm	0.14	3.6	mod.	ssw.	clear.
S. S. Granada, N. 24° 43′, W. 113° 12′ †	29.95	760.7	79	26.1	91	se.			1		2		e.	0	0	light	nw.	clear.
S. S. San Juan, Panama, Panama			78	25.6		wnw.			1		10 8		nw.	0	0	gr'd	nw.	overcast
S. S. Benledi, N. 2° — E. 104° 30′ *	29.90	759.4	83	28.3	79	sse.			3–4		0			0	0	sm'h		hazy.
S. Mt. Washington, N. 41° 24′ W. 133° 23′ *†	29.97	761.2	69.3	20.7	92	sw.			7		10		sw.	6 h'r	6 h'r	h'vy	ssw.	cloudy.
S. Saint David, N. 39° 16′, E. 154° 09′ *†	29.88	758.9	73	22.8	83	nw.			6		9		nw.	8 h'r	8 h'r	long	nw.	rainy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 58′, E. 150° 05′	29.89	759.2	80.3	26.8	85	calm			0		6					sm'h		th'nd'r storm
U. S. S. Hartford, Callao Bay, Peru*	29.97	761.2	61	16.1	94	sse.			1		10			0	0			cloudy.
U. S. S. Iroquois, Callao, Peru	30.08	764.0	60	15.6	94	se.			2		10							drizzling.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Lackawanna, Callao, Peru*	30.02	762.5	60	15.6	88	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward. Callao, Peru *†	30.16	766.1	60	15.6	82	se.	.....	.....	2	.....	10	.....	se.	.....	.....	mod.	w.	misty.
U. S. S. Wachusetts, Callao, Peru*†	30.21	767.3	59	15.0	100	se.	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W*†	29.95	760.7	57	13.9	81	s.	.....	.....	2	.....	6 n	.....	s.	.....	.....	.....	.....	fair.
S. S. Zealandia, Sydney, N. S. W	30.03	762.7	54	12.2	87	sse.	.....	.....	3	.....	4	.....	se.	.....	.....	.....	.....	fine.
Bk. Chas. Stewart, S. 19° 00′, W. 79° 00′†	30.30	769.6	60	15.6	.....	se.	.....	.....	7	.....	8	.....	ssw.	0	0	long	sw.	cloudy.
S. David Crocket, S. 21° 18′, W. 119° 43′ *	30.06	763.5	72	22.2	80	ne.	.....	.....	4	.....	9	.....	ne.	5 h'r	5 h'r	long	ne.	showery
S. Sovereign of the Seas, S. 51° 29′, W. 84° 23′ *†	29.18	741.2	38	3.3	.....	wsw.	.....	.....	5–8	.....	8	.....	w.	8 h'r	8 h'r	long	wsw.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 16° 50′, E. 50° 10′	30.09	764.3	.....	.....	.....	ese.	.....	.....	3	.....	9	ese.	.....	.....	.....	4	sse.	showery
H. M. S. Euryalus, S. 13° 10′, E. 51° 30′	30.00	762.0	77	25.0	82	ese.	.....	.....	2	.....	2	calm	.....	.....	.....	2	ese.	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	78	25.6	91	nnw.	.....	.....	1	.....	3	nnw.	.....	.....	.....	2	nnw.	d clouds.
H. M. S. Woodlark, Bushire, Persia	29.60	751.8	92.5	33.6	85	n.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Juniata, S. 3° 27′, E. 106° 29′	29.87	758.7	82	27.8	100	sse.	.....	.....	3	.....	10	.....	calm	h'vy	h'vy	sm'h	.....	cloudy.
Bk. Pilgrim, S. 21° 30′, E. 64° 45′*†	30.15	765.8	.....	.....	.....	se.	.....	.....	4	.....	3	.....	se.	0	0	high	s.	clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 6, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.08	764.0	77.0	25.0	79	s.			2		0			0	0	clear	Roziere.
Algiers			30.09	764.2	76.3	24.6	59	n.			4		6			inap.	inap.	cloudy	Thève.
La Galle			30.01	762.2	76.3	24.6	63	nw.			6		4			0.028	0.7	cloudy	Fonfrède.
Tunis			30.02	762.4	77.0	25.0	47	nnw.			5		3			0	0	pretty fair	Delord.
Saida			30.14	765.5															Pérès.
Tebessa			30.06	763.4	74.8	23.8	40	n.			4		4			0	0	cloudy	St. Martin.
Geriville					86.0	30.0	16	n.			1		0			0	0	clear	Forfert.
Laghouat			29.98	761.5	82.0	27.8	21	nw.			2		0			0	0	clear	Abraham.
Biskra			29.95	760.7	90.7	32.6	29	w.			5		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.23	767.8	49.9	9.9	82	w.	11	4.9			2 k			0.028	0.7	showery	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.95	760.7	30.04	763.0	46.0	7.8	93	sw.	2	0.9			5			0.09	2.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	745.9	29.91	759.7	57.0	13.9	66	ne.			2		10			0.055	1.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.2	29.89	759.3	63.5	17.5	52	wsw.	1.8	0.8			4			0.146	3.7		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.40	721.4	29.75	755.7	77.0	25.0	64	nw.			2		2			0.295	7.5		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.1	29.96	760.9	56.1	13.4	89	calm			0		10			0	0	gloomy	The Staff.
Lemberg	28.93	734.8	29.90	759.4	61.5	16.4	71	n.			3		10			0	0		Dr. T. Stanecki.
Pola	29.67	753.6	29.78	756.3	68.2	20.1	57	ne.			5		4			0	0		I. R. Hydrographic Office.
Szathmar	29.39	746.4	29.83	757.7	69.4	20.8	58	e.			3		4			0.146	3.7		Joseph Midlinszky, S. J
Szegedin	29.54	750.3	29.81	757.2	68.0	20.0	56	n.			2		5			0	0		Karl Stu...cel.
Trieste	29.75	755.6	29.85	758.1	62.6	17.0	46	e.			4		8			0.291	7.4		Royal Academy.
Vienna	29.24	742.8	29.95	760.7	63.0	17.2	57	nw.			2.		7			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.40	746.7	29.50	749.3	54.3	12.4	70	w.	11	4.9			5			0.010	0.3	blue sky	W. Boswell.
Armagh, Observatory	29.57	751.1	29.81	757.2	54.4	12.4	87	w.	11	4.9			10					showery	S. Call.
Bidston, Liverpool Obs'y			29.78	756.4	56.4	13.6	84	w.	31	13.9			9					overcast	John Hartnup.
Bolton, Sharples	29.21	741.9	29.74	755.4	51.3	10.7	96	sw.	6	2.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.33	745.0	29.72	754.9	53.1	11.7	98	se.			3		10			0.01	0.3	raining	McLandsborough & Preston
Bridgetown, Barbadoes	29.99	761.0	29.99	761.7	81.0	27.2	78	se.			1		6					gloomy	Corpl. W. I. Cull, A. H. C
Cardington	29.84	757.9	29.94	760.5	55.2	12.9	86	sw.			4.0		10					overcast	John McLaren.
Chatham, School M. E.	29.79	756.7	29.97	761.2	57.0	13.9	72	s.			1		10			blank	blank	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.75	755.6	29.98	761.5	59.4	15.2	65	sw.			3		10					overcast	The Staff.
Fort Napier, Natal	27.52	699.0	29.74	755.4	83.0	28.3	29	e.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.82	757.4	29.86	758.4	54	12.2	80	w.			3		9			0.20	5.1	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.95	760.7	30.00	762.0	78.4	25.8	85	e.			3		0					blue sky	Sgt. F. Norris, A. H.O.
Glasgow, Observatory	29.42	747.3	29.63	752.6	52.3	11.3	86	wnw.			2		3					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	57.1	13.9	69	wsw.			5		10					overcast	The Staff.
Guernsey	29.76	755.9	30.06	763.5	54.0	12.2	96	sw.			2		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.94	760.5	29.98	761.5	55.4	13.0	60	w.	18	8.0			10					threatening	The Staff.
Leicester, Museum	29.58	751.3	29.84	757.9	53.0	11.7	81	sw.			3		10					raining	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.90	759.4	77.0	25.0	59	nw.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.03	762.7	85.5	29.7	78	s.			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.34	745.2	29.87	758.7	51.2	10.7	86	ssw.			4		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.72	754.9	29.95	760.7	52.7	11.5	76	ssw.			4		10					drizzling	The Staff.
Plymouth	29.91	759.7	29.98	761.5	55.8	13.2	97	sw.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.33	745.0	29.43	747.5	53	11.7	85						3					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.66	753.4	29.73	755.1	87.2	30.7	44	ne.			2		3					d. clouds	W. H. Lyne.
Sheffield			29.79	756.7	52.0	11.1	79	sw.								0.04	1.0		W. F. Cooper.
Silloth Rectory	29.65	753.1	29.68	753.9	50.0	13.3	88	wsw.			5		10			0.130	3.3	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.74	755.4	54.0	12.2	87	sw.	18	8.0			8					d. clouds	W. C. Carlisle.
Strathfield Turgiss					54.3	12.4	74	sw.			1.5		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.92	760.0	30.00	762.0	62	16.7	72	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.02	762.5	58.2	14.6	85	wsw.	19	8.5			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.48	748.8	29.88	758.9	74.8	23.8	51	nw.	14.9	6.7		3 c	5 n	w.	nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.88	758.9	29.92	760.0	53	11.7	67	sw.	10	4.5		1 c	0	nw.		0.05	1.3	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.96	761.0	30.00	762.0	53	11.7	74	w.	13	5.8		0	0			0.24	6.1	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.00	762.0	45	7.2	86	sw.	6	2.7		0	0			0.23	5.8	clear	G. A. Blair.
Cornwall, Ontario	29.89	759.2	30.09	764.3	48.2	9.0	86	w.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.83	757.7	29.88	758.9	48.5	9.2		w.			1	0	0			0.011	0.3	blue sky	H. A. Johnson.
Edmonton, N. W. T	27.72	704.1			41	5.0	74	ne.	8	3.6			10 n		w.	0	0	cloudy	Alex. Taylor.
Father Point, Quebec*	29.78	756.4	29.80	756.9	49	9.4	93	sw.	30	13.4		0	5 k		s.	0	0	fair	... McWilliams.
Fort Garry, Manitoba*	29.09	738.9	29.91	759.7	54	12.2	93	nw.	7	3.1			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	30.01	762.2	30.08	764.0	52.0	11.1	67	w	4.0	1.8		0	0			0.100	2.5	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.05	763.3	30.11	764.8	54	12.2	64	wsw.	17	7.6		0	0			0.15	3.8	clear	J. Chipman Seeley
Granton, Ontario	29.08	738.6	30.19	766.8	46.0	7.8	84	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.99	761.7	30.12	765.0	53	11.7	80	w.	2	0.9		0	0			0.050	1.3	clear	A. Allison.
Hamilton, Ontario	29.74	755.4	30.13	765.3	51.1	10.6	85	sw.			1	2 k	1 ks	w.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.24	768.1	51	10.6	80	w.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A
Little Glace Bay, N. S	29.83	757.7	29.87	758.7	68.0	20.0	79	sw.			2	0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.31	744.5	30.23	767.8	41.7	5.4	96	calm	0	0		0	0			0	0	blue sky	E. B. Reed.
Medicine Hat	27.72	704.1	29.99	761.7	49	9.4	80	n.	4	1.8		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.85	758.2	30.06	763.5	52	11.1	74	sw.	16	7.2		2 ck	0	w.		0	0	clear	C. H. McLeod, O. E.
Ottawa, Ontario	29.85	758.2	30.09	764.3	46.1	7.8	92	sw.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.40	746.7	30.09	764.3	54	12.2	86	sw.	7	3.1		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.40	746.7	30.14	765.5	52.7	11.5	79	w.			2	1 c	0	w.		0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.50	749.3	30.20	767.1	47	8.3	100	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.21	767.3	44	6.7	96	nw.	6	2.7		0	0			0	0	clear	M. Payne.
Que Appelle, N. W. T	27.66	702.6	29.89	759.2	51	10.6	96	ne.	18	8.0			10 n		w.	0.02	0.5	light rain	Leslie Gordon.
Quebec, Quebec*	29.63	752.6	29.99	761.7	49	9.4	89	w.	8	3.6		5 ck	0	w.		0	0	fair	Capt. Asse, R. N.
Rockliffe, Ontario*	29.57	751.1	30.04	763.0	42	5.6	93	calm	0	0			fg			0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B	30.01	762.2	30.06	763.5	47	8.3	88	w.	1	0.4		0	0			inap.	inap.	clear	
St. John, N. B	29.95	760.7	30.09	764.3	48.3	9.1	98	w.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.66	753.4	29.91	759.7	58	14.4	88	nw.			2	0	0			0.18	4.6	clear	The Commandant.
Saugeen, Ontario*	29.46	748.3	30.19	766.8	46	7.8	89	sw.	11	4.9		0	0			0	0	clear	
Stratford, Ontario	28.90	734.0	30.20	767.1	46.5	8.1	87	calm	0	0		0	0			0	0	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F			29.88	758.9	54.7	12.6		nw.			3					0	0		The Commandant.
S. W. Point, Anticosti	29.75	755.6	29.78	756.4	51	10.6	90	nw.	4	1.8		0	0			0.58	14.7	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill		
CANADIAN.—Continued.																			
Sydney, C. B	29.91	759.7	29.97	761.2	55	12.8	74	w.	12	5.4	.....	0	0	.....	.....	0.01	0.3	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.80	756.9	30.19	766.8	47	8.3	83	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.14	740.1	30.22	767.6	49.7	9.8	80	w.	9	4.0	.....	0	0	.....	.....	0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.08	764.0	30.14	765.5	52	11.1	83	w.	6	2.7	.....	0	0	.....	.....	0.10	2.5	clear	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	58.5	14.7	88	w.	6.8	3.0	.....	.....	10 n	.....	.....	0.030	0.8	drizzling	I Garfelt.
Springbok Fontein	27.89	708.4	.....	.....	58	14.4	55	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. T. Eustace
CHILIAN.																			
Coquimbo	29.98	761.5	30.06	763.5	51.1	10.6	94	se.	.....	.....	1	0	0	.....	.....	.....	.....	clear	Samuel Redolez.
Iquique	30.03	762.7	30.06	763.4	58.1	14.5	78	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	cloudy	Rafael Moreno.
Niebla	29.69	754 2	29.80	756.9	39.2	4.0	93	s.	.....	.....	1	.....	7	.....	calm	0.622	15.8	drizzling	Federico Kühling.
Punta Caldera	29.94	760.4	30.02	762.6	54.5	12.5	79	ne.	.....	.....	1	8 ck	.....	n.	.....	.....	.....	fair	Manuel Tobar.
Punta Corona	29.82	757.5	30.01	762.3	.....	.....	.....	n.	.....	.....	6	.....	10	.....	.....	0.047	1.2	cloudy	Ignacio Ayala.
Valparaiso	30.11	764.9	30.26	768.5	49.5	9.7	86	sw.	.....	.....	1	.....	.....	.....	.....	.....	.....	clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.09	637 3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.82	757.3	77.9	25.5	88	se.	10.1	4.5	.....	0	0	.....	.....	0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.70	754 4	29.75	755.6	59.4	15.2	51	nnw.	18	8	.....	.....	8	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.77	756.1	29.79	756.6	54.1	12.3	82	wnw.	9	4	.....	.....	9	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. Kleinschmidt.
Stykkisholm, Iceland	29.28	743.8	29.33	744.9	50.0	10.0	86	se.	4	2	.....	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.30	744.3	29.33	744.9	49.3	9.6	96	se.	18	8	.....	.....	10	.....	.....	.....	.....	raining	Overloerer Bergh.
Vestervig	29.60	751.7	29.69	754.0	55.0	12.8	66	wsw.	13	6	.....	.....	2	.....	.....	.....	.....	.....	Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.57	751.1	.....	.....	92.7	33.7	.....	n.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Albert Ismaïun.
FRENCH.																			
Agen, Normal School	29.47	748.5	30.08	764.0	61.2	16.2	58	wsw.	.....	.....	4	.....	10	.....	nw.	0.677	17.2	raining	M. Labroue, Director.
Alençon, Normal School	29.56	750.8	30.07	763.8	60.8	16	76	sw.	.....	.....	1	.....	k	.....	ne.	0.472	12.0	.....	M. Nicot, Director.
Avignon, Normal School	29.98	761.4	30.06	763 4	64.4	18	55	n.	.....	.....	6	.....	0	.....	.....	0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.55	750.6	30.10	764.5	61.5	16.4	61	wnw.	.....	.....	2	.....	8 kn	.....	wnw.	0.571	14.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.82	757.4	30.08	764.1	61.9	16.6	95	wsw.	.....	.....	1	.....	10	.....	wsw.	0.244	6.2	covered	M. Frère Eugène Marlè.
Besançon, Normal School	29.14	740.1	30.03	762.7	63.0	17.2	68	ene.	.....	.....	1	.....	.....	.....	.....	0	0	.....	M. Gobin, Director.
Bordeaux, Observatory	29.95	760.8	30.21	767.4	65.3	18.5	55	w.	.....	.....	1	.....	5	.....	n.	0.331	8.4	cloudy	M. Rayet, Director.
Bourges, Normal School	29.59	751.6	30.18	766.5	62.6	17	77	sw.	.....	.....	1	.....	.....	.....	sw.	0.20	5.	.....	M. Malet, Director.
Brest, Naval Observatory	29.91	759.8	30.16	766.0	57.2	14.0	95	sw.	.....	.....	2	.....	10	.....	sw.	.....	.....	raining	M. de Kermarès, Dir.
Caen, Normal School	30.00	761.9	30.08	764.0	60.4	15.8	87	w.	.....	.....	1	.....	8	.....	w.	0.197	5.0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	754.8	30.03	762.8	61.2	16.2	82	wsw.	.....	.....	2	.....	5	.....	.....	0.354	9.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.50	749.2	30.00	762.1	60.8	16	57	ssw.	.....	.....	1	.....	8	.....	.....	0.12	3.	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.79	731.3	30.15	765.8	55.4	13.0	62	n.	.....	.....	2	.....	8	.....	nnw.	0.835	21.2	.....	M. Alluard, Director.
Cluny, Normal School	29.25	743.0	30.10	764.4	59.0	15	69	n.	.....	.....	1	.....	.....	.....	n.	0.307	7.8	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.23	742.4	30.09	764.2	58.3	14.6	70	nw.	.....	.....	4	c	5 kn	nw.	nw.	0.28	7.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.33	694.1	29.80	756.8	62.6	17	58	n.	.....	.....	6	1 c	.....	.....	.....	0	0	.....	M. Jarach, Director.
Gréasque, du Rhone	28.73	729.8	29.84	757.8	64.0	17.8	46	nw.	.....	.....	8	.....	2	.....	nw.	0.047	1.2	.....	M. Kina, Director.
Grenoble, Normal School	29.24	742.6	30.00	762.1	57 9	14.4	70	nw	.....	.....	6	.....	kn	.....	n.	0.724	18.4	.....	M. Ablard, Directoor
Guéret, Normal School	28.58	725.8	30.14	765.6	57.2	14	65	n.	.....	.....	4	.....	8 kn	.....	se.	0	0	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.85	758 2	30.13	765.2	58.1	14.5	74	w.	.....	.....	2	.....	10	.....	w.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.64	752.9	30.27	768 8	63.1	17.3	58	w.	.....	.....	1	.....	2 k	.....	.....	0.567	14.4	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.08	764.0	30.18	766.6	60.1	15.6	66	sw.	.....	.....	2	.....	10	calm	sw.	0.055	1.4	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.04	737.5	30.10	764.4	55.4	13.0	73	nnw.	.....	.....	2	.....	10 n	.....	.....	0.421	10.7	covered	M. André, Director
Mans, Normal School	29.85	758.3	30.16	766.1	61.3	16.3	.....	wsw.	.....	.....	6	.....	8 kn	.....	sw.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.60	751.8	29.87	758.6	65.5	18.6	34	nw.	.....	.....	8	.....	3	.....	nw.	0	0	.....	M. Stephan, Director.
Montlouis*	24.87	631.8	29.72	754.8	61.2	16.2	31	nw.	16.8	7.5	.....	.....	0	.....	.....	0	0	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.1	29.95	760.8	67.6	19.8	73	nnw.	.....	.....	6	.....	2	se.	se.	0	0	slightly cl'dy	M. Galzin, Director.
Nantes, Observatory	30.05	763.3	30.21	767.4	62.4	16.9	59	wnw.	.....	.....	1-2	.....	10 n	.....	wnw.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.98	761.4	30.09	764.2	66.4	19.1	42	nw.	31.8	14.2	.....	.....	2	.....	nnw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.7	.....	.....	29.5	1.4	.....	nw.	.....	.....	2	.....	0	.....	.....	0.630	16.0	clear	M. Vaussenat, Director.
Privas, Normal School	28.94	735.0	29.99	761 8	60.4	15.8	67	n.	.....	.....	1	.....	2 k	.....	nw.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.24	641.0	.....	.....	36.3	2.4	100	wnw.	.....	.....	4	.....	5	.....	nnw	1.394	35.4	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.17	766.3	30.20	767.1	68.0	20.0	62	calm	.....	.....	0	.....	5	n.	ssw.	0.24	6.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.96	761.0	30.17	766.3	64.6	18.1	90	w.	.....	.....	4	.....	5	nw.	sw.	0.008	0.2	cloudy	M. Brotier, Director.
Rodez, Normal School	28.02	711.8	30.19	766.9	50.7	10.4	82	nw.	.....	.....	1	.....	10	.....	n.	0.583	14.8	raining	M. Seger, Director.
Rouen, Normal School	30.07	763.7	30.11	764.9	61.5	16.4	85	w.	.....	.....	1	.....	5	w.	.....	0.752	19.1	raining	M. Mouillot, Dir.
Saint Maur, Observatory	29.95	760.6	30.11	764.8	61.2	16.2	59	w.	.....	.....	1	.....	10	.....	nw.	0.126	3.2	.....	M. Renou, Director.
Toulouse, Observatory	29.53	750.0	30.26	768.5	61.2	16.2	62	wnw.	.....	.....	4	.....	5	nw.	.....	0.303	7.8	cloudy	M. Baillard, Director.
Tours	29.97	761 3	30.15	765.8	64.4	18.0	62	wnw.	.....	.....	2	.....	8	.....	w.	0.008	0.2	very cloudy	M. de Tastes.
Versailles, Observatory	29.61	752.2	30.11	764.7	60.4	15.8	62	n.	.....	.....	2	.....	9	.....	.....	0	0	.....	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.12	765.0	30.27	768.8	63.9	17.7	63	n.	5.8	2.6	.....	.....	7 k	w.	ne.	0.909	23.1	.....	M. Cartier, Director.
GERMAN.																			
Ansbach	28.55	725.2	29.98	761.5	59.7	15.4	52	w.	.....	.....	2	.....	5	w.	.....	0.102	2.6	.....	Prof. Jnedt.
Bamberg	29.12	739 7	29 97	761.1	61.7	16.5	60	nw.	.....	.....	1	.....	6 k	.....	w.	0.024	0.6	.....	Prof. Dr. Hoh.
Berlin	29.76	755.8	29.89	759.3	66.2	19.0	46	w.	.....	.....	3	.....	7	.....	.....	0	0	.....	Dr. Leifsch.
Breslau	29.43	747.4	29.95	760 8	62.6	17.0	51	w.	.....	.....	2	.....	4	ssw.	.....	inap.	inap.	.....	Royal University Obs'y.
Carlsruhe	29.59	751.6	30.04	763.1	60.6	15 9	67	sw.	.....	.....	1	.....	10	sw.	.....	0.004	0.1	raining	Albert Senz.
Cassel	29.26	743.3	29.98	761.4	59.5	15.3	54	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.63	752.5	29.98	761 5	64.2	17.9	57	w.	.....	.....	1	.....	7	.....	.....	0.004	0.1	.....	Physical Society.
Friedrichshafen	28.61	726.6	30.00	762.1	60.1	15.6	69	sw.	.....	.....	2	.....	9	w.	.....	0.150	3.8	.....	Wilhelm, Chief Tel.
Hamburg	29.80	756 8	29.89	759.1	56.1	13.4	86	wsw.	.....	.....	4	.....	10	.....	.....	0.043	1.1	raining	E. Preller.
Kiel	29.73	755.2	29.75	755.6	56.7	13.7	71	w.	.....	.....	2	.....	7	.....	.....	0.031	0.8	.....	Prof Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.52	749.9	29.93	760.3	66.9	19.4	40	sw.	.....	.....	2	.....	5	w.	.....	0	0	.....	H. Leppig, Asst.
Magdeburg	29.73	755.1	29.91	759.8	64.2	17.9	51	w.	.....	.....	3	.....	5	wsw.	.....	0	0	.....	Weather Observatory.
Memel	29.79	756.6	29.84	757.8	62.4	16.9	70	wnw.	.....	.....	5	6 c	.....	.....	.....	.....	.....	.....	Issermann.
Munich	28.17	715.6	30.04	762.9	54.1	12.3	85	calm	.....	.....	0	.....	10	sw.	.....	0.354	9.0	.....	Central Station.
Neufahrwasser	29.82	757.5	29.84	757.9	63.3	17.4	69	w.	.....	.....	2	.....	6	.....	.....	0.039	1.0	.....	A. Lothes.
Neustadt, Palatinate	29.48	748.8	30.01	762.2	59.5	15.4	73	wnw.	.....	.....	1	.....	10	.....	.....	0.075	1.9	raining	Dicknether.
Stuttgart	29.05	737.8	29.93	760.2	61.7	16.5	57	n.	.....	.....	1	.....	6	w.	.....	.....	.....	light rain	Prof. Dr. Schoder.
Wustrow	29.78	756 3	29.80	756.9	57.2	14.0	70	sw.	.....	.....	5	.....	10 s	.....	.....	0.142	3.6	.....	Profs. Brandes & Reimer.
GREEK.																			
Athens	29.37	745.9	29.73	755.2	89.8	32.1	.....	s.	.....	.....	1.5	.....	0	.....	.....	0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.47	748.6	29.52	749.8	83.0	28.3	75	wsw.	34.0	15.2	.....	.....	4	.....	wsw.	0	0	d. clouds	
Deesa	29.02	737 0	29.48	748.9	84.1	28.9	74	wsw.	11.0	4.9	.....	.....	10	w.	w.	0.04	1.0	overcast	
Bombay	29.61	752.1	29.65	753.0	79.7	26.5	90	w.	21.0	9.4	.....	.....	10	.....	wnw.	0.66	16.8	overcast	
Poona, Yarrowda	27.82	706.7	29.69	754.1	72.6	22.0	86	w.	22.0	9.8	.....	.....	10	.....	.....	0.03	0.8	overcast	
Trichinopoly	29.48	748.8	29.76	755.8	89.2	31.8	46	w.	0.7	0.3	.....	.....	10	.....	.....	0	0	overcast	
Bellary	28.21	716.5	29.66	753.5	81.0	27.2	60	w.	16.0	7.2	.....	.....	9	.....	.....	0	0	gloomy	
Belgaum	27.18	690 4	29.74	755.4	69.4	20.8	90	w.	18.0	8.0	.....	.....	10	w.	.....	0.70	17.8	overcast	
Lahore	28.77	730.8	29.52	749.7	73.8	23.2	95	ne.	10.0	4.5	.....	.....	10	.....	n.	1.83	46.5	raining	
Roorkee	28.63	727.1	29.52	749.8	78.2	25.7	90	se.	5.0	2.2	.....	.....	10	s.	.....	1.35	34.4	overcast	
Agra	28.92	734.5	29.47	748.6	83.2	28.4	82	e.	.....	.....	.....	.....	10	.....	e.	0	0	overcast	
Nagpur	28.49	723.5	29.52	749.8	78.3	25.7	91	sse.	3.0	1.3	.....	.....	10	.....	w.	0.49	12.4	thund'rst'm	
Jubbulpore	28.16	715 3	29.50	749.3	81.4	27.4	80	w.	6.0	2.7	.....	.....	7	.....	w.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.12	739.5	29.48	748.9	89.1	31.7	66	ese.	2.5	1.1			2	sw.		0.04	1.0		
Allahabad	29.17	740.8	29.48	748.7	80.7	27.1	93	calm	0	0			6			0.62	15.7	d. clouds	
Patna	29.33	745.1	29.52	749.7	87.6	30.9	69	ene.	6.2	2.8			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.51	698.8	29.50	749.2	79.3	26.3	76	ese.	8.3	3.7			8		ese.	0.02	0.5	drizzling	
Cuttack	29.39	746.5	29.47	748.5	83.0	28.3	81	calm	0	0			5			0.04	1.0	d. clouds	
Calcutta, Alipore	29.47	748.5	29.49	749.1	84.5	29.2	77	sse.	8.5	3.8			7		e.	0.05	1.3	d. clouds	
Dhubri	29.43	747.5	29.54	750.4	83.2	28.4	87	calm	1.3	0.6			8	nne.		0.38	9.6	d. clouds	
Chittagong	29.47	748.6	29.56	750.8	83.2	28.4	85	calm	1.6	0.7			9			0	0	d. clouds	
Sibsagar	29.19	741.5	29.52	749.8	88.3	31.3	75	ne.	2.0	0.9			5	e.	e.	0.09	2.3	d. clouds	
Jeypore	28.04	712.1	29.46	748.2	81.2	27.3	84	calm	3.6	1.6			9		s.	0.13	3.3	d. clouds	
Zanzibar	29.96	761.0			79.0	26.1	73	calm	1.5	0.7			9		e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.47	748.6	29.87	758.7	60.8	16.0	67	e.	4.9	2.2			10			0.398	10.1		Prof. Giovanni Clodig.
Milan	29.34	745.2	29.84	757.9	66.6	19.2	58	sw.	1.8	0.8			9	ene.		1.417	36.0		Prof. G. V. Schiapparelli
Padua	29.74	755.4	29.85	758.1	58.6	14.8	77	ne.	16.8	7.5			10	ne.		0.315	8.0		Prof. Dott. Lorenzoni.
Moncalieri	28.99	736.3	29.87	758.6	64.8	18.2	55	sw.	1.8	0.8			4			0.024	0.6		Prof. F. F. Denza.
Genoa	29.58	751.2	29.76	755.9	64.9	18.3	55	ne.	9.4	4.2			4	n.		0.484	12.3		Prof. G. M. Garibaldi.
Mondovi	28.00	711.3	29.87	758.8	55.6	13.1	88	n.			2		10			0	0		Prof. D. C. Bruno.
Pesaro	29.72	754.9	29.77	756.1	69.8	21.0	52	ne.	6.3	2.8			10	se.		0.079	2.0		Prof. Luigi Guidi.
Florence	29.51	749.5	29.76	755.8	67.3	19.6	69	sse.			2		10	e.		0.165	4.2		Prof. Costantino Pittei.
Leghorn	29.62	752.3	29.70	754.4	68.4	20.2	56	w.	21.7	9.7			10	sw.		0.114	2.9		Prof. P. Monte.
Rome	29.56	750.8	29.73	755.1	69.8	21.0	63	sw.	8.1	3.6			10	sw.		0.031	0.8		Prof. P. Tacchini.
Lecce	29.48	748.8	29.72	754.9	81.3	27.4	21	wsw.	8.7	3.9			1			0	0		Prof. C. de Giorgi.
Cosenza	28.90	734.1	29.76	755.8	79.5	26.4	63	sw.	1.3	0.6			3	s.		0.087	2.2		Prof. D. Conti.
Cagliari	29.64	752.8	29.83	757.6	65.7	18.7	71	nw.			4		8	w.		0.165	4.2		Prof. A. Pacinotti.
Palermo	29.56	750.8	29.80	756.9	78.1	25.6	45	w.	3.8	1.7			6	wsw.		0	0		Prof. G. Caccialore.
Syracuse	29.72	755.0	29.77	756.1	81.5	27.5	49	w.	18.6	8.3			10	wsw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.26	743.1	29.76	756.0	72.0	22.2	64	sw.	4.3	1.9			10	sw.		0.055	1.4		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.83	757.7	29.87	758.7	71.9	22.2	94	calm			0		10n;k		w.	0.161	4.1	raining	H. Hattori.
Awomori	29.81	757.2	29.84	757.9	69.6	20.9	91	sw.	4.0	1.8		0	2 s			0.031	0.8	fair	K. Ogawa.
Hamamatsu	29.90	759.4	29.93	760.1	78.4	25.8	94	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	29.96	760.8	29.97	761.2	76.6	24.8	77	nw.			2	0	9 s			0	0	cloudy	G. Miyanonaza.
Kanazawa	29.81	757.2	29.91	759.7	76.0	24.4	81	calm	0	0		1 ck	2 ck		sw.	0	0	fair	S. Endo.
Kioto	29.74	755.4	29.91	759.8	79.4	26.3	84	ese.	3.8	1.7		0	1 s			0	0	clear	M. Tojima.
Kochi	29.94	760.5	29.96	761.0	78.9	26.1	85	ne.	1.1	0.4		0	1 s			0	0	clear	K. Kusunose.
Miasaka	29.94	760.4	29.96	761.1	75.2	24.0	93	sse.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.76	755.5	29.87	758.6	66.5	19.2	97	w.	2.2	1.0		7 cs	0			0.008	0.2	fair	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.76	755.9	29.95	760.7	74.0	23.7	85	calm	0	0		0	0			0	0	clear	S. Takehayasu.
Niigata	29.84	757.9	29.87	758.7	75.5	24.2	90	sw.	2.1	0.9		0	2ks;s		s.	0.155	3.9	fair	Satoo & Tomikawa.
Nobiru	29.86	758.4	29.87	758.8	72.6	22.6	92	wsw.	7.5	3.4			10ks;s			0.010	0.3	covered	Yoslino & Midzushina.
Numazu	29.89	759.2	29.93	760.2	77.1	25.1	89	nne.			1		10 ks		w.	0	0	cloudy	R. Kaneda.
Osaka	29.91	759.6	29.92	760.0	79.6	26.4	86	w.	9.5	4.2		0	0			0	0	clear	H. Omura.
Sakai	29.89	759.3	29.90	759.5	74.5	23.6	82	calm			0	0	0			0	0	clear	Yamawchi & Sakamoto.
Shimonoseki	29.79	756.7	29.94	760.4	76.8	24.9	89	calm			0	0	0			0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	29.86	758.4	29.93	760.3	74.7	23.7	93	nne.	3.0	1.3			9 s		sw.	0	0	cloudy	The Staff.
Wakayama	29.86	758.5	29.91	759.8	79.2	26.2	70	s;ssw.	6.8	3.0		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	72.3	22.4	65	se.	14.5	6.5		2c;cs	6 ks;kn	wnw.	se.	0.08	2.0	cloudy	The Staff.
MEXICAN.																			
Leon	24.40	619.7	30.07	763.8	59.5	15.3	94	nnw.	0.9	0.4		6 c	4ck;s		nnw.	0.066	1.7	overcast	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	761.9	79.0	26.1	78	ene.	0.9	0.4		2cs	3 n		ne.	0.039	1.0	fair	F. Quijano, C. E.
Sub-series.																			
Altata					76	24.4	82	e.			1		9 s			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.00	761.9	30.00	761.9	62.4	16.9		wsw.			4					0.043	1.1		
Groningen	29.86	758.4	29.91	759.8	55.8	13.2		w.			1					0	0		
Helder	29.92	759.9	29.92	759.9	58.3	14.6		sw.			4					0.142	3.6		
Hellevoetsluis	29.98	761.6	29.98	761.6	59.9	15.5	65	wsw.			3					0.035	0.9		
Utrecht	29.93	760.3	29.98	761.5	60.3	15.7	64	w.			2		8			0.020	0.5	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.9			80.2	26.8	74	nne.	0	0			5			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.47	748.5	29.53	750.1	50.7	10.4	86	e.	3.8	1.7			10			0.461	11.7	raining	
Brono	29.14	740.1	29.18	741.1	60.4	15.8	61	s.			6		9			0.148	3.6		
Christiania	29.29	743.9	29.43	747.5	60.6	15.9	70	sw.	4	2			9			0	0	foggy	
Gjesvær	29.78	756.3	29.80	756.9	53.2	11.8		ese.			2		1						
Lodingen	29.45	747.9	29.49	749.1	50.9	10.5	88	ne.			4		9			0.315	8.0	raining	
PORTUGUESE.																			
Angra, Azores					71.1	21.7	74	se.	11.2	5.0			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.11	764.9	30.21	767.2	72.7	22.6	54	se.	3.1	1.4			2	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.8	30.12	765.1	73.6	23.1	52	ne.	15.4	6.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.39	771.8	30.46	773.6	73.8	23.2	59	ne.	6.3	2.8			5			0	0		
Saint Paul de Loando	29.79	756.7	30.00	761.9	71.6	22.0	78	n.			2		8			0	0		
San Salvador, Congo	28.15	715.0	30.02	762.5	68.7	20.4	69	w.			2		10						
Serra da Estrella	25.48	647.1	30.14	765.5	58.6	14.8	59	ese.	9.4	4.2			0			0	0		
RUSSIAN.																			
Akmolinski	28.79	731.3	29.85	758.3	56.5	13.6	38	n.	13	6		0	4 k			0	0		Major K. Lasarew.
Archangel	30.00	762.0	30.02	762.5	69.1	20.6	60	calm	0	0		0	5 ks			0	0		Capt. Sselliwerstow.
Ashurada	29.86	758.5	29.77	756.1	82.8	28.2	58	nnw.	11	5		0	2 k			0	0		
Astrakhan	29.97	761.1	29.89	759.3	81.7	27.6	41	n.	11	5			10 s;n			inap.	inap.		Capt. Wisganow.
Baku	29.84	757.8	29.79	756.6	84.7	29.3	57	calm	0	0		2 cs	0			0	0		
Barnaul	29.22	742.3	29.72	754.8	54.0	12.2	68	w.	9	4			10			0.421	10.7		Meteorological Obs'y
Bielosersk	29.53	750.1	29.99	761.7	62.2	16.8	92	calm	0	0			9 ks			0	0		
Dorpat	29.47	748.6	29.71	754.5	67.3	19.6	71	s.	7	3			10 kn			0.091	2.3		Observatory.
Ekaterinburg	29.21	741.8	30.17	766.4	51.8	11.0	61	nne.	9	4			9			0	0		Meteorological Obs'y.
Elisawetgrad	29.41	746.9	29.83	757.6	87.3	30.7	21	sw.	7	3		2 cs	0			blank	blank		
Irkutsk	28.36	720.3	30.01	762.2	46.0	7.8	63	sse			1		3			0	0		
Kasalinsk					79.7	26.5	41	ne.	18	8		2c;cs	0						
Kasan	29.78	756.3	30.04	762.9	69.8	21.0	46	ese.	11	5		0	7 k			0	0		Observatory.
Kem	29.90	759.5	29.95	760.8	63.1	17.3	57	se.	18	8		0	6 ks			0	0	light clouds	
Kertch	29.74	755.5	29.77	756.1	83.5	28.6	73	calm	0	0		0	1 k			0	0		Lagorio & Sastyrea.
Kieff	29.17	740.8	29.76	755.9	80.4	26.9	43	s.	7	3		0	8ks;n			0	0	light clouds	Observatory.
Kosiov	29.41	746.9	29.88	759.0	81.1	27.3	37	ese.	4	2		0	3 ks			0	0		
Liban	29.74	755.5	29.77	756.1	59.9	15.5	70	wsw.			6		9			0.571	14.5		E. Quaas.
Lugan	29.01	752.2	29.81	757.1	86.4	30.2	24	se.	13	6			0			0	0		Meteorological Obs'y.
Moscow	29.42	747.3	29.86	758.5	80.6	27.0	45	sw.	2	1		0	1 k			0	0		Meteorological Obs'y
Nikolaiev	29.76	755.9	29.83	757.7	88.7	31.5	30	sw.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					48.7	9.3	79	nne.	18	8			9 n						Iwanow.
Pekin, China	29.81	757.1	29.95	760.7	56.7	13.7	89	calm	0	0			9 n			1.110	28.2		Physical Observatory.
Petro-Alexandrovsk	29.48	748.9	29.82	757.3	86.4	30.2	17	nne.	1.1	0.5		0	0			0	0		
Petrozavodsk	29.74	755.5	29.94	760.4	61.0	16.1	79	ese.	11	5		1 cs	0			0.012	0.3		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mils. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.37	746.1	29.86	758.5	61.0	16.1	90	wnw.	9	4			10 s			0	0		
Poti	29.80	756.9	29.83	757.7	79.3	26.3	84	ssw.	4	2		0	2 s			0	0		
St. Petersburg	29.82	757 4	29.84	758 0	67.5	19.7	54	se.	18	8		0	5 k			0	0		Central Physical Obs'y.
Samarkand	27.40	696.0	29.72	754.8	82.9	28.3	37	calm	0	0		0	0			0	0		
Semipalatinsk	29.20	741.7	29.86	758.4	50.2	10.1	66	w.	4	2			5			0.130	3.3		Major Lasarew
Sevastopol	29.60	751.8	29.80	756.9	83.8	28.8	41	sw.	20	9		0	1 s			0	0		
Staroi Bykhov	29.25	742.9	29.78	756.3	75.0	23.9	73	se.	7	3			9 ks			0	0		
Tashkend Laboratory	28.16	715.3	29.72	754.8	84.6	29.2	31	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.43	722.0	29.76	755.8	82.0	27.8	31	se.	2	1		0	0			0.437	11.1		Physical Observatory.
Vernoe	27.26	692.4	29.64	752.8	73.4	23.0	50	calm	0	0		0	0			0	0		
Viatka	29.50	749.2	30.12	765.0	60.4	15.8	73	se.	2	1			8			0	0		
Warsaw	29.49	749.1	29.91	759.7	59.4	15.2	74	w.	9	4		0	7 k			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.84	757.9	30.13	765.2	49.3	9.6	54	e.	9	4			0			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.86	758.4	29.96	761.0	77.4	25.2	55	wnw.	16.1	7.2		0	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.19	766.7	30.24	768.2	71.6	22.0	52	nw.	2.9	1.3		2	2	ne.		0.083	2.1	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	692.8	30.21	767.4	63.1	17.3	47	n.	4.9	2.2			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.3	30.06	763.6	77.9	25.5	30	e.	10.7	4.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.88	759 0	30.03	762.8	84.2	29.0	43	se.	3.4	1.5		0	1			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.48	748.8	30.24	768.1	60 8	16.0	86	e.	5.4	2.4		6 n	4 k	w.	e.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.32	744.6	30.20	767.1	65.1	18.4	71	n.	3.8	1.7			1			0.051	1.3	almost clear.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.5	30.00	762.1	75.4	24.1	90	se.	1.3	0.6		1 cs	0	n.		1.32	33.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.70	754.4	29.76	755.8	79.9	26.6	84	wsw.	33.0	14.8			10 n		sw.	1.220	31.0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.8	30.05	763.2	82.6	28.1	33	nw	8.5	3.8		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.94	760.4	30.03	762.7	81.7	27.6	88	ne.	13.9	6.2		3 s	4 k	e.	s.	0.087	2.2		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.68	753 8	29.72	754.8	61.9	16.6	71	se.			4		10			0	0		
Umea	29.45	748.0	29.50	749.3	56.1	13.4	98	s.			2		10			1.154	29.3		
Hernosand	29.37	740.0	29.42	747.3	59.7	15.4	85	sw.			2		8			0.299	7.6		
Stockholm	29.38	746 3	29.56	750 8	60.8	16.0	59	ssw.			2		10			0.224	5.7		
Wisby	29.56	750.8	29.62	752.3	59.4	15.2	74	wsw.			6		7			0.059	1.5		
Sub-series.																			
Upsala	29.43	747 5	29.52	749.7	59.7	15.4	72	ssw.	11.2	5.0			8	s.	wsw.	0.134	3.4		H.H. Hildebrandesson,
Swiss.																			
Geneva	28.62	727.0	30.03	762.7	61.2	16.2	51	nne.			3		5			0.122	3.1	cloudy	The Observatory.
Turkish.																			
Constantinople			29.78	756.4	79.2	26.2	61	nne.	19	8.5			3		ne.	0	0		The Observatory.
Valona			29.93?	760.1?	82.0	27.8		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.70	754.3	88.0	31.1	60	sw.			1		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.83	681.5			85	29.4	65	calm			0		5 k		w.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.15	765.8	30.23	767.8	53	11.7	80	s.	4	1.8		0	fg			0	0	clear.	J. O. Barnes.
Alpena, Michigan	29.44	747.8	30.08	764.0	52	11.1	80	w.	11	4.9		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.24	641.1	30.04	763.0	56	13.3	67	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.09	764.3	57	13.9	77	sw.	9	4.0		0	7 s		sw.	0.01	0.3	fair	B. O. Lenoir.
Atlanta, Georgia	28.97	735.8	30.14	765.5	66.3	19.1	91	ne.	7	3.1		hz.	sk.			0	0	dense smoke	Edward A. Beals.
Atlantic City, New Jersey	30.23	767.8	30.24	768.1	53	11.7	66	n.	4	1.8		6 c	0			inap.	inap.	fair	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.12	765 0	73.0	22.8	83	ne.	8	3.6		5 k	5 s	sw.	ne.	inap.	inap.	cloudy	D. J. Young.
Baltimore, Maryland	30.24	768.1	30.29	769.4	54	12.2	74	n.	7	3.1		0	hz.			0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.23	767.8	30.25	768.3	56.0	13.3	69	n.	12	5.4		5 c	0	w.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.83	757.7	29.85	758.2	39.6	4.2	95	w.	4	1.8		0	1 s			0	0	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.29	718.6	29.88	758 9	62.0	16.7	84	s	3	1.3		4 c	4 s	nw.		0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.19	766.8	60	15.6	48	calm	0	0		0	hz.			0.10	2.5	clear	Thomas Morgan.
Bismarck, Dakota	28.04	712.2	29.84	757.9	61	16.1	78	e.	3	1.3		1 cs	8 k		w.	0	0	threatening.	Cyrus Cramer.
Block Island, Rhode Island	30.18	766.6	30.22	767.6	58	14.4	70	ne.	7	3.1		0	0			inap.	inap.	clear	J. T. Elker.
Boise City, Idaho	27.20	692 4	30.03	762.7	50	10.0		se.	2	0.9		0	0			0.11	2.8	clear	J. Kenealy.
Boston, Massachusetts	30.04	763.0	30.19	766.8	53.0	11.7	66	sw.	8	3.6		0	hz.			0.02	0.5	clear	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.07	763.8	72.0	22.2	97	ne.	1	0.4		8 c	2 s	s.		0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.44	747.8	30.17	766.3	54	12.2	81	s.	5	2.2		1 k	sk.	sw.		0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.92	709.2	29.90	759.4	55	12.8	93	w.	2	0.9		2 k	1 s	w.		0	0	clear	A. Schneider.
Cairo, Illinois	29.85	758 2	30.25	768.3	59.6	15.3	72	n.	6	2.7			0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.87	758.7	30.07	763.8	54.3	12.4	96	se.	12	5.4		0	fg.			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	68.0	20.0	73	ne.	20	8.9			10 s			0.95	24.1	cloudy.	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	58.0	14.4	57	n.	13	5.8		6c;cs	0			0	0	fair	W. E. Smith.
Cape Mendocino, California	29.39	740 5	30.07	763.8	52	11.1	100	nw.			2		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.99	761.7	30.01	762 2	78.5	25.8	89	ne.	2	0.9		1 c	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.01	762.2	30.00	763.5	73.0	22.8	97	ne.	7	3.1			10 s		ne.	0.14	3.6	threatening	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.20	767.1	63.0	17.2	63	ne.	8	3.6			10 s		ne.	1.21	30.7	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.16	766.1	62.0	16.7	87	calm	0	0		0	fg.			0.16	4.1	clear	B. L. Gouldin.
Cheyenne, Wyoming	24.23	615.4	30.09	764.3	54.3	12.4	60	sw.	1	0.4		0	5 s		nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.50	749.3	30.10	766.8	53.0	11.7	71	sw.	4	1.8		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	61	16.1	72	n.	19	8.5		5 ck	0			0.01	0.3	fair	C. F. Dickens.
Cincinnati, Ohio	29.60	751.8	30.25	768.3	58.0	14.4	65	ne.	1	0.4		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.50	749.3	30.22	767.6	47	8.3	79	se.	6	2.7		1 k	0	sw.		0	0	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.42	747.3	30.26	768.6	49	9.4	71	n.	1	0.4		0	fg.			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.25	717.5	30.15	765.8	68.0	20.0	90	ne.	6	2.7		10 cs	0			0.51	13.0	cloudy	J. McGlone.
Custer, Fort, M. T	26.91	683.5	30.03	762.7	57	13.9	83	s.	3	1.3		0	4 ks		se.	inap.	inap.	fair	T. Gibson.
Davenport, Iowa	29.53	750.0	30.18	766.6	50	13.3	69	W.	4	1.8		4 ck	hz.	W.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.05	763.3	58	14.4	90	n.	4	1.8			10 s		n.	0.82	20.8	cloudy	J. Williams.
Dayton, Washington T'y	28.34	719 8	30.09	764.3	56	13.3	69	e.	2	0.9		0	0			inap.	inap.	clear	D. Moore.
Deadwood, Dakota	25.44	646.2	30.00	762.0	62	16.7	70	se.	2	0.9			10 s		se.	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del.	30.24	768.1	30.20	768.6	63	17.2	68	ne.	26	11.7		7 c;cs	0	nw.		0.01	0.3	fair	T. S. Townsend.
Denver, Colorado	24.90	632.4	30.01	762.2	59.0	15.0	62	se.	8	3.0		0	2 s			0.23	5.8	clear	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.16	766.1	55	12.8	74	nw.	2	0.9		7 cs	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.52	749 8	30.21	767.3	48.0	8.9	77	w.	4	1.8		0	0			0	0	clear	L. R. Brace.
Dodge City, Kansas	27.56	700.0	30.11	764.8	60	15.6	84	se.	12	5.4		4 c	0	w.		0	0	fair	H. Bryce.
Dubuque, Iowa	29.47	748.5	30.17	766.3	51.8	11.0	75	nw.	1	0.4		5 c	0	nw.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.22	742.2	29.96	761.0	57	13.9	80	w.	1	0.4		0 k	0	w.		0	0	fair	N. B. Conger.
Eastport, Maine	30.02	762.5	30.09	764.3	53.0	11.7	69	sw.	4	1.8		0	hz.			0.15	3.8	dense haze.	D. C. Murray.
Elliott, Fort, Texas	27.48	698.0	30.17	766.3	57	13.9	77	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.50	673.1	30.15	765.8	60.0	15.6	87	calm	0	0		7 cs	0			0.13	3.3	fair	J. O'Dowd.
Erie, Pennsylvania	29.51	749.5	30.22	767.6	51	10.6	80	s.	8	3.6		2 cs	0	W.		0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.40	746.7	30.06	763 5	50.0	10.0	84	sw.	8	3.6		2 cs	hz.	nw.		0	0	clear	George Heathcote.
Galveston, Texas	30.06	763.5	30.10	764.5	77	25.0	82	e.	4	1.8		4 ck	5 ks		sw.	0.31	7.9	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.51	749.5	30.17	766.3	61.0	16.1	84	sw.	15	6.7		0	0			0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.41	645.4	30.01	762.2	66.9	19.4	54	sw.	2	0.9		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.08	764.0	30.10	764 5	71.0	21.7	87	ne.	28	12.0			10 s		ne.	inap.	inap.	cloudy	R. S. Crawford.
Helena, Montana	25.90	657.8	30.07	763.8	63	17.2	45	w.	3	1.3		0	0			0	0	clear	I. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.47	723.1	29.85	758.2	61.7	16.5	87	se.	11	4.9			10 ks			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.44	747.8	30.22	767.6	52.0	11.1	72	ne.	1	0.4		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.06	763.5	30.09	764.3	78.1	25.6	94	e.	11	4.9			10 s		e.	0.45	11.4	cloudy	I. A. Reed.
Jacksonville Florida	29.98	761.5	30.02	762.5	75.0	23.9	90	se.	2	0.9		2 cs	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.56	750.8	30.21	767.3	55.0	12.8	80	e.	2	0.9		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	81.5	27.5	82	calm	0	0		0	7 ks		w.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	70	21.1	73	ne.	28	12.5			10 s		ne.	2.16	54.9	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.15	740.4	30.17	766.3	60.1	15.6	74	ne.	1	0.4		2 ck	0	sw.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.13	765.3	52	11.1	80	s.	9	4.0		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.32	744.7	30.20	767.1	56	13.3	86	s.	1	0.4		2 c	0	w.		0	0	clear	T. S. Outram.
Lewiston, Idaho	29.25	742.9	30.08	764.0	60.0	15.6	54	se.	1	0.4			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.88	758.9	30.19	766.8	63	17.2	84	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	64	17.8	78	ne.	5	2.2		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.65	753.1	30.20	767.1	54	12.2	77	n.	4	1.8		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.58	751.3	30.26	768.6	57.3	14.1	70	n.	2	0.9		0	8ks;s		nw.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.41	747.0	30.06	763.5	57.9	14.4	80	sw.	15	6.7		2 cs	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	70.0	21.1	84	ne.	16	7.2		4 cs	5 n	sw.	sw.	0.01	0.3	light rain	William Daly.
Maginnis, Fort, Montana	25.71	653.0	30.11	764.8	59	15.0	84	w.	13	5.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.28	743.7	30.00	762.0	56.0	13.3	69	w.	16	7.2		4 c	0			0	0	fair	J. Gilligan.
Memphis, Tennessee	29.85	758.2	30.19	766.8	64	17.8	73	n	5	2.2		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.44	747.8	30.18	766.6	53	11.7	72	sw.	8	3.6		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.04	763.0	30.08	764.0	74	23.3	82	n.	7	3.1		8 c	hz.	ne.		0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.86	758.4	30.09	764.3	70	21.1	79	calm	0	0		3 cs	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.92	734.6	29.90	759.4	46	7.8	83	s.	6	2.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.90	607.0	30.05	763.3	30.0	— 1.1	62	nw.	40	17.9		0	0			0.07	1.8	clear	S. W. Beall.
Nashville, Tennessee	29.59	751.6	30.16	766.1	60.0	15.6	75	n.	2	0.9		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.11	764.8	30.22	767.6	52	11.1	66	n	4	1.8		0	hz.			inap.	inap.	clear	J. H. Sherman.
New London, Connecticut	30.20	767.1	30.24	768.1	60	15.6	65	n.	3	1.3		1 c	0			0.03	0.8	clear	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	76.5	24.7	75	e.	8	3.6		3 c	hz.	nw		0	0	clear	M. Herman.
New York, New York	30.10	764.5	30.27	768.8	53.1	11.7	66	w.	3	1.3		1 c	2 s	w.		inap.	inap.	clear	H. J. Penrod.
Norfolk, Virginia	30.16	766.1	30.18	766.6	67.0	19.4	63	ne.	10	4.5		3 ck	0	nw.		2.04	51.8	clear	Wm. Davis.
North Platte, Nebraska	27.11	688.6	29.99	761.7	64.6	18.1	82	s.	6	2.7		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	51.0	10.6	93	calm	0	0			fg.			0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.96	735.6	30.13	765.3	60.6	15.9	67	s.	4	1.8		2 cs	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.85	758.2	30.17	766.3	52.0	11.1	83	s.	5	2.2		0	0			0	0	clear	J. G. Linsley.
Palestine, Texas	29.63	752.6	30.18	766.6	71.5	21.9	83	ne.	8	3.6		10 ck;cs	0	n.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.06	763.5	73.8	23.2	76	nw.	5	2.2		5 c	0	w.		0	0	fair	M. McGaurau.
Philadelphia, Pa	30.18	766.6	30.28	769.1	58.5	14.7	78	n.	4	1.8		2 cs	hz.	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.19	462.0	30.17	766.3	34	1.1	85	ne.	16	7.2		0	1 s			0.12	3.0	clear	H. Hall.
Pittsburg, Pennsylvania	29.47	748.5	30.20	768.0	46.6	8.1	93	calm	0	0			fg.			0	0	dense fog	G. C. Schaeffer.
Poplar River, Montana					59	15.0	70	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.49	749.0	30.16	766.1	47.0	8.3	83	sw.	5	2.2		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.09	764.3	30.14	765.5	54.0	12.2	66	sw.	2	0.9		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	53.0	11.7	100	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.96	634.0	30.06	763.5	60	15.6	58	e.	1	0.4		0	0			inap.	inap.	clear	N. D. Lane.
Provincetown, Mass	30.17	766.3	30.20	767.1	59.5	15.3	65	w.	1	0.4		1 c	0			inap.	inap.	clear	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.63	752.6	29.98	761.5	66	18.9	40	n.	3	1.3		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.56	750.8	30.11	764.8	48.8	9.3	89	calm	0	0		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.90	759.4	29.96	761.0	63.0	17.2	68	se.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.66	753.4	30.25	768.3	58.0	14.4	80	n.	3	1.3		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.70	754.4	29.74	755.4	52	11.1	93	s.	15	6.7			10 n			0.25	6.3	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.15	740.4	30.00	762.0	54.0	12.2	80	se.	6	2.7		9 k	0	w.		0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.01	736.8	29.88	758.9	49	9.4	93	n.	4	1.8			10 s			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.81	655.6	30.06	763.5	68	20.0	44	nw.	4	1.8		0	0			0.02	0.5	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	65.0	18.3	93	nw.	3	1.3		0	fg.			0	0	clear	F. R. Day.
Sanford, Florida	29.94	760.5	29.99	761.7	74	23.3	97	calm	0	0		0	7 k		se.	0.02	0.5	fair	J. B. Marbury.
Sandusky, Ohio	29.56	750.8	30.23	767.8	51.5	10.8	70	w.	7	3.1		0	0			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.23	767.8	30.26	768.6	58.0	14.4	65	nw.	11	4.9		1 k	0	nw.		0	0	clear	B. A. Blundon.
San Francisco, California	29.98	761.5	30.05	763.3	54.5	12.5	90	w.	13	5.8			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.96	761.0	30.05	763.3	73	22.8	90	n.	6	2.7		4 ck	4 ks		n.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.47	672.3	30.08	764.0	53	11.7	80	w.	5	3.0		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.95	760.7	30.19	766.8	67.3	19.6	73	ne.	1	0.4		7 c	0	nw.		0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.98	736.1	30.20	767.1	61	16.1	72	n.	5	2.2		1 c	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.99	761.7	30.05	763.3	52	11.1	86	e.	2	0.9		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.76	755.9	30.23	767.8	57.6	14.2	86	e	3	1.3		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.06	763.5	30.10	764.5	69.5	20.8	88	ne.	6	3.0		7 cs	3 k	w.	e	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.08	764.0	53	11.7	93	calm	0	0		0	sk.			0.01	0.3	clear	John F. Hemenway.
Springfield, Illinois	29.56	750.8	30.23	767.8	55	12.8	74	s.	5	2.2		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.21	691.1	30.17	766.3	66	18.9	90	w.	1	0.4		10 cs	0			0.26	6.6	cloudy	Louis Dorman.
Thomas, Camp, Arizona					71	21.7	51	se.			1	0	2 ks			0	0	clear	R. C. Lord.
Toledo, Ohio	29.52	749.8	30.20	767.1	53	11.7	72	w.	4	1.8		0	0			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.68	753.9	29.70	754.4	50	10.0	77	se.	12	5.4			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					67	19.4	35	nw.			1	0	0			inap.	inap.	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.91	759.7	30.10	766.1	65.5	18.6	87	n.	4	1.8		4 c	4 s	nw.		0	0	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.18	766.6	30.29	769.4	53.0	11.7	82	calm	0	0		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.10	664.5	29.98	761.5	62.4	16.9	70	sw.	4	1.8		4 cs	0	w.		0.03	0.8	fair	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	68.0	20.0	90	ne.	7	3.1			10 s		ne.	0.05	1.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.63	727.2	29.92	760.0	66.3	19.1	67	w.	4	1.8		7 k	0	w.		inap.	inap.	fair	E. H. Thompson.
Yuma, Arizona	29.72	754.9	29.80	758.4	83.6	28.7	52	sw.	1	0.4		0	1 s		ne.	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		ne			2		3 k		ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.09	561.0			53.2	11.8	76	calm	0	0		3 k	0 ks;s	w.	nw.	0.012	0.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.92	760.0	79.2	26.2	87	calm	0	0		10 c	0	e.		0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	82	se.			3	4 c	4 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	740.2	29.94	760.5	82	27.8	85	s.			1	0	5 ks		calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77.6	25.3	89	ne.			1	2 ck	2 ks	se.	ne.	0.79	20.1	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	29.98	761.5	30.04	763.0	40.0	4.4	91	s.	11	4.9		3 k	2 s	s.	s.	1.30	33.0		Fortescue & Wilson.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 36° 20′, E. 23° 20′	29.75	755.6	86	30.0	65	sse.			1							sm'h		blue sky.
H. M. S. Coquette, N. 39° 38′, E. 19° 56′	29.76	755.9	82	27.8		calm			0		2					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.17	766.3	80	26.7	78	ssw.			2		4	ssw.						d. clouds.
H. M. S. Iris, Port Said, Egypt	29.70	754.4	83	28.3	91	nnw.			3		0							blue sky.
H. M. S. Tenedos, St. Johns, N. F.	29.86	758.4	61	16.1	71	wnw.			3		5	wnw.						d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.11	764.8	53	11.7	80	nw.	8	3.6			0			0	0			clear.
U. S. S. Alliance, N. 47° 18′, W. 61° 41′	29.94	760.5	55	12.8	74	w.			5		2			h'vy	h'vy	mod.		clear.
U. S. S. Galena, New York, N. Y	30.29	769.4	60	15.6	88	w.			1		0					sm'h		clear.
U. S. S. Jamestown, Gibraltar, Mediterranean	30.05	763.3	72	22.2	67	nne.			2		0							hazy.
U. S. S. Kearsarge, N. 40° 12′, W. 36° 15′	30.35	770.9	76	24.4	86	sse			3		0?					sm'h		fair?
U. S. S. Lancaster, N. 42° 10′ E. 60° 32′	29.88?	758.9?	66	18.9	89	wnw.			6		2		nw.			r'gh	nw.	fair.
U. S. S. Portsmouth, Provincetown, Mass	30.08?	764.0?	57	13.9	94	nw.			2		0							clear.
U. S. S. Powhatan, New York Bay, N.Y	30.28	769.1	64	17.8	83	w.			1		2							clear.
U. S. S. Quinnebaug, N. 48° 12′, W. 60 46′	30.25?	768.3?	61	16.1	94	w.			6		8		w.			mod.	sw.	cloudy.
U. S. S. Saratoga, Oyster Bay, Long Island			58	14.4	100	nw.			2		2		nw.	0	0	sm'h		fair.
U. S. S. Swatara, Madame Island, N. S	29.98	761.5	55	12.8	74	nw.			3		2		nw.	light	light	sm'h		clear.
U. S. S. Vandalia, Green Island, Quebec, Canada	29.84	757.9	49	9.4	85	sw.			4		10		sw.					cloudy.
U. S. S. Yantic, N. 66° 06′ W. 55° 49	29.54	750.3	40	4.4	82	sw.			2–3		5						e.	fair
S. S. British Crown, N. 45° 55′, W. 49° 33′ †	29.93?	760.2?	60	15.6		wsw.			5		10			½ h'r	½ h'r	sli't	wsw.	heavy rain.
S. S. Lord Clive, N. 43° 45′, W. 53° 30′	30.10	764.5				nw.			1		10		w.	6 h'r	6 h'r	sm'h		cloudy
S. S. Ohio, Liverpool, Eng †	29.81	757.2	57	13.9	81	wnw.			3		10		wnw.	4 h'r	4 h'r			cloudy
S. S. Circassian, N. 54° 12′, W. 48° 03′	29.48	748.8	49	9.4		s.			6		10		s.			5	ssw.	raining.
S. S. Grecian, N. 50° 45′, W. 57° 41′	29.68	753.9	60?	15.6?	88	sw.			4		8		wsw.	7 h'r	7 h'r			fair
S. S. Nova Scotian, St. Johns, N.F	29.89	759.2	60	15.6		wsw.			3		2		w.					clear
S. S. Prussian, Boston, Mass	30.17	766.3	66	18.9		wnw.			1		0			½ h'r	½ h'r			
S. S. Scandinavian, N. 48° 16′, W. 43° 30′	29.96	761.0	57.5	14.2		calm			0		10 s		sw.	10 h'r	10 h'r	con	var.	drizzling.
S. S. Alvo, N. 20° 27′, W. 74° 19′*	29.92	760.0	81	27.2		ene.			6		8		ene.	0	0	long	ne.	squally.
S. S. Avilla, San Juan, Porto Rico, W.I. *†	30.02	762.5	81	27.2		e.			2		5		e.	rain	rain			
S. S. Australia, Gibraltar, Mediterranean						calm			0		0			0	0			
S. S. Dorian, N. 42° 28′ W. 9° 45′	30.28?	769.1?	62	16.7		n.			2		8		n.	0	0	mod.	nw.	hazy.
S. S. Furnesia, New York, N. Y †	30.25	768.3	62	16.7	83	wsw.			1		0			0	0			clear.
S. S. Llandaff City, N. 42° 49′ W. 50° 12′ †	30.13	765.3	58	14.4		s.			3		7		sw.	0	0	sm'h		cloudy.
S. S. Gallia, N. 40° 32′, W. 66° 55′	30.08?	764.0?	69	20.6	90	e.			4		10?		calm	0	0	sm'h		fair?
S. S. Pavonia, N. 47° 30′ W. 36° 10′*	30.10	764.5	66	18.9	94	wsw.			5		10			0	0	4	nw.	foggy.
S. S. Scythia, N. 50° 23′, W. 19° 52′	30.26	768.6	62	16.7	94	wnw.			3		9?		nw.	0	0	mod.	nw.	clear ?
S. S. Samaria, N. 44° 25′ W. 47° 09′			62	16.7		ssw.			5		2		wsw.	0	0	sm'h		clear.
S. S. Canada, N. 49° 15′, W. 33° 39′	30.31?	769.9?	55.4	13		calm			0		10		ssw.	0	0	r'gh	wnw.	covered.
S. S. Ville de Bordeaux, N. 42° 50′, W. 13° 30′ *†	30.45?	770.9?	65	18.3		ne.			4		6		ne.	0	0	long	ne.	fair.
S. S. Wisconsin, N. 42° 50′ W. 61° 10′			59	15.0		nnw.			1		0			0	0	sm'h		clear.
S. S. Bohemia, N. 45° 41′, W. 48° 44′	30.12?	765.0?				s.			5		10		sw.	0	0	long	nw.	hazy.
S. S. Gellert, New York, N.Y	30.24	768.1	69	20.6	52	w.			1		1			0	0			clear.
S. S. Silesia, N. 45° 56′, W. 44° 30′			60	15.6		w.			2		8		wsw.	0	0	mod.	nnw.	cloudy.
S. S. Westphalia, N. 48° 27′, W. 41° 01′			65	18.3	78	s.			5–6		8		sw.	0	0	long	nw.	foggy.
S. S. Rhaetia, N. 49° 51′, E. 0° 20′*			57	13.9		sw.			6		9		nw.	5 h'r	5 h'r			covered.
S. S. Bulgarian, N. 42° 43′, W. 60° 10 *	30.14	765.5				n.			1		3			3 h'r	3 h'r	light	sw.	clear.
S. S. Virginian, N. 46° 54′, W. 34° 57′*	30.14	765 5	69	20.6		sw.			5		10		sw.	3 h'r	3 h'r	long	n.	drizzling.
S. S. Rosse, N. 40° 23′, W. 52° 45′	30.16	766.1	77	25.0		ssw.			4		1		ssw.	0	0	sm'h		clear.
S. S. Rio Grande, N. 38° 07′, W. 74° 28′†	30.29	769.4	70	21.1		nne.			2		7		ne.	0	0	small	ene.	hazy.
S. S. Chalmette, N. 24° 24′, W. 81° 47′†	30.03	762.7	81	27.2		sw.			3		5?		sw.	6 h'r	6 h'r	sm'h		clear?
S. S. New York, N. 38° 26′, W. 74° 30′*†	30.20	767.1	69	20.6		ene.			2		7		ne.	0	0	sm'h		cloudy
S. S. Alleghany, Baltimore, Md			58	14.4		ne.			2		0			0	0			clear.
S. S. Archimede, Palermo, Sicily†	29.86	758.4	78	25.6		nw.			4		5?		wnw.	0	0			cloudy?
S. S. City of Merida, N. 40° 44′, W. 74° 01′*†	30.18?	766.6?	62	16.7		nw.			1		1		sw.	0	0	mod.	sw.	fine.
S. S. Canada, N. 46° 55′, W. 31° 30′			65	18.3		se			4		5			5 h'r	5 h'r	sm'h		fair.
S. S. Denmark, Dungeness, Eng †	30.01	762.2	61	16.1		sw.			6		8		sw.	0	0	sli't	e.	cloudy.
S. S. Egypt, N. 51° 43′, W. 8° 17′	29.99	761.7	51	10.6		wnw.			6		8		wnw.	6 h'r	6 h'r	mod.	wnw.	fair.
S. S. England, N. 43° 58′, W. 47° 45′	30.10	764.5				w.			4		0					sm'h		clear.
S. S. Helvetia, Liverpool, Eng	29.73	755.1	62	16.7	88	w.			7		5			8 h'r	8 h'r			fair.
S. S. Holland, N. 49° 31′, W 7° 39′	30.07	763.8	64	17.8		nw.			4		5		nw.	5 h'r	5 h'r	mod.	wnw.	fair.
S. S. Donau, N. 42° 30′ W. 62° 18′	30.21?	767.3?				nnw.			3		2		n.	2 h'r	2 h'r	sm'h	nnw.	clear.
S. S. Elbe, N. 49° 42′, W. 9° 01′	30.16?	766.1?	61.7	16.5	84	nw.			4		4		nw.	0	0	long	wnw.	cloudy.
S. S. Fulda, N. 40° 46′, W. 66° 40′	30.18	766.6	62.6	17.0	70	ne.			4		3			0	0	mod.	ne.	clear.
S. S. Gen. Werder, N. 49° 07′, W. 40° 00′	30.05	763 3				s.			4		8		s.			long	s.	rain & fog.
S. S. Neckar, N. 46° 52′, W. 44° 04′	30.06	763.5	58.0	14.4	94	sw.			3		8		sw.			mod	sw.	foggy.
S. S. Oder, N. 50° 01′, W. 11° 30′	30.10	764.5	59.0	15.0		nw.			3–4		9		nnw.	2 h'r	2 h'r	mod.	wnw.	cloudy.
S. S. Ohio, N. 39° 15′ W. 71° 01′	30.23	767.8				ene.			3		8		ne.	3 h'r	3 h'r	mod.	ne.	cloudy.
S. S. Salier, N. 46° 30′, W. 46° 15′*	29.98	761.5	51.8	11.0	75	sw.			4		9		sw.	1 h'r	1 h'r	high	ne.	foggy.
S. S. Strassburg, N. 45° 58′, W. 48° 08′	29.98	761.5	52.5	11.4	93	s			4		9		s.	0	0	4	var.	cloudy.
S. S. Werra, N. 50° 46′, E. 0° 40′	29.99	761.7	58.1	14.5		wnw.			6		10		wnw.	4 h'r	4 h'r	r'gh	wnw.	cloudy.
S. S. City of Augusta, Savannah, Ga †	30.12	765.0				nne.			3		10		nne.	0	0			clear ?
S. S. Muriel, Saint Thomas, W.I	29.95?	760.7?	84	28.9		e.			3		0			0	0	sm'h		clear.
S. S. Orinoco, New-York, N. Y *†	30.20	767.1	67	19.4		nw.			1		1			0	0			clear.
S. S. Belgenland, N. 44° 56′, W. 46° 15′†	30.12	765.0	60	15.6	82	var.			2		2		calm	0	0	long	s.	clear.
S. S. Nederland, N. 50° 44′, W. 19° 42′			60	15.6	65	w.			5		10		w.	3 h'r	3 h'r	long	wnw.	cloudy.
S. S. Rhynland, Antwerp, Belgium	30.00	762.0	58	14.4	76	sw.			3		8		sw.	4 h'r	4 h'r			cloudy.
S. S. Pennland, Flushing, Netherlands	30.08	764.0	60	15.6	88	sw.			4		8		sw.	0	0			cloudy.
S. S. Vaderland, Schelde river, Netherlands			59	15.0		ne.			3		8		ne.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Waesland, N. 40° 26′, W. 73° 28′	30.24	768.1	63	17.2		wnw.			3		0			0	0			clear
S. S. Zeeland, Owers Light-ship, Eng.*†	29.96	761.0	50	10.0		wsw.			4				wsw.	sh'rs	sh'rs	sm'h		overcast.
S. S. P. Caland, N. 50° 02′ W. 20° 45′	30.26	768.6	59.0	15.0	88	w.			4		7		wnw.			4	w.	fair.
S. S. W. A. Scholten, N. 49° 15′ W. 32° 56′			55.4	13.0	100	se.			5		10		s.	3 h'r	3 h'r	6	wnw.	foggy.
S. S. Belize, N. 19° 34′, W. 74° 34′			88	31.1		ne.			4		2		ne.	0	0	mod	ne.	clear.
S. S. Valencia, Curacoa, W. I†	29.92	760.0	86	30.0	74	ne.			3		2		ene.	0	0			clear.
S. S. Caracas, N. 37° 44′, W. 72° 51′*†	30.21	767.3	70	21.1	70	ene.			6		10		ene.	15 h'r	15 h'r	mod.	ne.	overcast.
S. S. State of Nevada, New York, N. Y †	30.26	768.6	61	16.1		wnw.			2		1		wnw.	0	0			clear.
S. S. State of Alabama, N. 41° 23′, W. 47° 00′ *	30.21	767.3	66	18.9		calm			0		2		e.	0	0	sm'h		clear.
S. S. Thingvalla, Copenhagen, Denmark †	29.83?	757.7?	59.0	15.0		ssw.			3		3		ssw.	2 h'r	2 h'r			clear.
S. S. Romano, N. 50° 44′, W. 0° 12′ *†	30.06	763.5	58	14.4		w.			4		5		w.	0	0	light	w.	fair.
S. S. Salerno, New York, N. Y *†	30.23	767.8	63	17.2		w.			2		8			0	0			hazy.
S. S. Oregon, Liverpool, Eng	29.76	755.9																
S. S. Lake Manitoba, N. 56° 14′, W. 14° 48′	29.62	752.3	55	12.8		sw.			7		9		sw.	4 h'r	4 h'r	h'vy	sw.	squally.
S. S. Daniel Steinmann, N. 44° 38′, W. 53° 00′*†	30.00	762.0	62	16.7		wnw.			2		0			0	0	mod.	wnw.	foggy.
S. S. Plantyn, N. 49° 47′, W. 12° 43′	30.07	763.8							5		5		w.	5¾ h'r	5¾ h'r	sm'h	nw.	fair.
S. S. Saxon, N. 41° 00′, W. 71° 45′ †	30.21	767.3				nnw.			2		10?			0	0		s.	fair?
S. S. Adriatic, N. 41° 10′, W. 66° 10′ *†	30.30?	769.6?	59	15.0		w.			2				w.	0	0	sm'h	wnw.	clear.
S. S. Celtic, N. 50° 01′, W. 23° 56′ †	30.30	769.6	64	17.8	67	nw.			3		8		n.	6 h'r	6 h'r	h'vy	nw.	cloudy.
S. S. Iowa, N. 50° 41′, W 34° 27′ †	30.16	766.1	58	14.4		sse.			4		9		sse.	0	0	long	nw.	cloudy.
S. S. Algiers, N. 29° 50′, W. 79° 32′*†	30.08	764 0				var.			1							sm'h		raining.
S. S. City of Alexandria, N. 22° 22′, W. 86° 04′*†	29.97	761.2	82	27.8		sw.			2									d. clouds.
Schr. Arthur Burton, N. 39° 54′, W. 72° 53′†	30.27	768.8				ne.			5		2		ne.	0	0	r'gh	ne.	clear.
Schr. Abbie H. Gheen, Philadelphia, Pa †	30.25	768.3	64	17.8		nnw.			2									clear.
S. S. Antonio Lopez, N. 22° 57′, W. 79° 20′	30.03	762.7	83.5	28.6	81	calm			0		1			1 h'r	1 h'r	sm'h		clear.
Bk. Aquidneck, N. 31° 40′, W. 69° 46′*†	30.20?	767.0?	88	31.1		se.			2				sse.	0	0	light	se.	clear
Bg. Alcira, N. 31° 59′, W. 73° 58′	30.13	765 3	82	27.8		s.			2		10		s.	2 h'r	2 h'r	mod.	sse.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, N. 15° 45′, W. 59° 23′†	30.00	762.0	85	29.4	.....	e.	.....	.....	3	.....	4	.....	e.	0	0	long	e.	clear.
Bk. Aureola, N. 25° 50′, W. 25° 00′†	30.19	766.8	80	26.7	.....	nne.	.....	.....	6	.....	3	.....	ene.	1 h'r	1 h'r	hv'y	ne.	clear.
Bk. Adelaide, N. 32° 33′, W. 53° 24′*†	30.36?	771.1?	.....	.....	.....	ne.	.....	.....	2	.....	1	.....	ne.	0	0	sm'h	nnw.	clear.
Bg. Belle of the Bay, N. 34° 02′, W. 73° 23′†	30.10	764.5	.....	.....	.....	se.	.....	.....	2	.....	10	.....	se.	20 h'r	20 h'r	r'gh	se.	raining.
S. S. Burswell N. 43° 02′, W. 40° 18′*†	30.21	767.3	79	26.1	.....	ssw.	.....	.....	3	.....	4	.....	sw.	0	0	sm'h	.....	fair.
S. S. Cannonbury, N. 8° 10′, W. 52° 15′*†	30.08?	764.0?	.....	.....	.....	var.	.....	.....	1	.....	7	.....	e.	1 h'r	1 h'r	mod	ne.	cloudy
Bk. Celestina, N. 40° 25′, E. 5° 30′*†	30.04?	763.0?	.....	.....	.....	nw.	.....	.....	8	.....	5	.....	nw.	3 h'r	3 h'r	h'vy	nw.	fair.
Bk. Childwall, N. 44° 03′, W. 11° 00′*	30.11?	764.8?	67	19.4	89	nw.	.....	.....	5	.....	10	.....	w.	.....	.....	r'gh	wnw.	dense fog
Bk. Cato, N. 42° 53′, W. 12° 37′†	30.30	769.6	.....	.....	.....	nnw.	.....	.....	3	.....	4?	.....	n	.....	.....	long	nnw.	cloudy.?
Bk. Don Justo, N. 58° 08′, E. 1° 50′	.....	.....	.....	.....	.....	s.	.....	.....	4	.....	10	.....	s.	3 h'r	3 h'r	sm'h	nw.	heavy rain.
Bg. Daphne, N. 36° 47′, W. 65° 40′*†	30.25?	768.3?	79	26.1	.....	w.	.....	.....	3	.....	10	.....	wsw.	4 h'r	4 h'r	mod.	sw.	showery.
S. S. State of Nebraska, N. 52° 09′, W. 33° 30′*†	30.17	766.3	52	11.1	.....	ssw.	.....	.....	3	.....	8	.....	sw.	0	0	high	nw.	cloudy.
S. S. D. J. Foley, N. 18° 58′, W. 75° 28′*†	29.95	760.7	85	29.4	83	ne.	.....	.....	3	.....	2	.....	ne.	0	0	long	ne	clear.
Bkt. David A. Preston, N. 45° 07′, W. 66° 03′	.....	.....	.....	.....	.....	wsw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	
S. Dora, N. 46° 56′, W 36° 15′*†	30.20?	767.1?	64.9	18.3	.....	sw.	.....	.....	6	.....	.....	.....	.....	10 h'r	10 h'r	long	w.	foggy.
S. David Stewart, N. 9° 24′, W. 45° 17′†	29.86?	758.4?	86	30.0	.....	var.	.....	.....	1	.....	5	.....	var.	8 h'r	8 h'r	mod.	ene.	
S. E. J. Spicer, Antwerp, Belgium	30.04	763.0	58	14.4	94	wnw.	.....	.....	2	.....	5	.....	wnw.	6 h'r	6 h'r	.....	.....	fair.
Schr. Edith R. Seward, Doboy Island, Ga†	29.89?	759.2?	78	25.6	.....	ne.	.....	.....	1	.....	5	.....	ne.	0	0	.....	.....	fair.
Bk. E. D. Bigelow, N. 28° 18′, W. 90° 48′†	30.04	763.0	90?	32.2?	.....	n.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Edmund Phinney, N. 13° 10′, W. 46° 35†′	30.06	763.5	.....	.....	.....	ene.	.....	.....	2	.....	0	.....	.....	6 h'r	6 h'r	mod.	var.	fair.
Bk. E. L. Pettingill, N. 10° 58′, W. 33° 17′*†	30.15?	765.8?	80	26.7	.....	ene.	.....	.....	3	.....	5	.....	e.	0	0	sm'h	se.	d clouds
S. Festina Lente, Pilgrims Islands, Canada	29.84	757.9	.....	.....	.....	sw.	.....	.....	8	.....	2	.....	sw.	0	0	mod.	sw.	clear.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.19	766.8	57	13.9	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. George, N. 28° 30′, W. 61° 15′*†	30.20	767.1	80	26.7	.....	ese.	.....	.....	4	.....	2	.....	se.	light	light	mod.	se.	squally.
Bk. Galeon, N. 49° 22′ W. 6° 20′†	30.04	763.0	61	16.1	.....	w.	.....	.....	5	.....	10	.....	w.	4 h'r	4 h'r	.....	w.	misty.
Bk. Grey Eagle, N. 31° 17′, W. 53° 15′*†	30.15?	765.8?	.....	.....	.....	wnw.	.....	.....	1	.....	1	.....	nne.	0	0	sm'h	nw.	clear.
Bg. Giles Loring, N. 26° 42′, W. 75° 45′*†	30.20?	767.1?	85	30.0	80	var.	.....	.....	4	.....	6	.....	sse.	0	0	.....	.....	fine.
S. Hedwig, N. 37° 57′, E. 1° 33′	30.08?	764.1?	73.9	23.2	65	nnw.	.....	.....	5	.....	2	.....	nw.	0	0	2	nnw.	
Schr. Isabel Alberto, N. 25° 25′, W. 78° 29′†	29.97	761.2	.....	.....	.....	sse.	.....	.....	1	.....	2	.....	se.	sh'rs	sh'rs	.....	.....	fair.
Bkt. Josephine, N. 31° 50′, W. 71° 15′†	30.11	764.8	82	27.8	75	sse.	.....	.....	4	.....	8	.....	.....	½ h'r	½ h'r	mod.	sse.	cloudy.
Bk. Johanne, N. 55° 29′, E. 5° 47′*†	29.75	755.6	60	15.6	.....	wnw.	.....	.....	4	.....	5	.....	w.	0	0	mod.	nw.	fine.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	29.95	760.7	85	29.4	83	ene.	.....	.....	2	.....	2	.....	e.	½h'r	½h'r	.....	.....	clear.
Schr. Jennie N. Huddell, East Cambridge, Mass†	30.20	767.1	62	16.7	83	wnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Josefa, Bristol, Eng†	29.92	760.0	.....	.....	.....	wnw.	.....	.....	5	.....	9	.....	nw.	3 h'r	3 h'r	.....	.....	cloudy.
Bkt. Kryolith, Ivigtut, Greenland*†	29.37	746.0	.....	.....	.....	ese.	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
Bk. Lady Hincks, N. 41° 40′, W. 19° 14′*†	30.30	769.6	.....	.....	.....	.....	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	
Bg. L. & W. Armstrong, St. Pierre, Martinique, W. I*†	30.04	763.0	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	0	0	mod.	wsw.	clear.
S. S. Madrid, N. 39° 16′ E. 14° 32′†	29.80	756.9	76	24.4	73	wnw.	.....	.....	4	.....	4	.....	wsw.	0	0	mod.	wnw.	fair.
Bk. Mohican, N. 0° 35′, W. 32° 30′	29.95	760.7	80	20.7	.....	calm	.....	.....	0	.....	10	.....	ese.	8 h'r	8 h'r	short	s.	cloudy.
Schr. Norena, N. 25° 33′, W. 65° 57′*†	30.05	763.3	.....	.....	.....	e.	.....	.....	4	.....	2	.....	ese.	0	0	light	e.	fine.
Bk. Orpheus, N. 58° 47′, W. 20° 50′	29.42	747.3	57	13.9	.....	w.	.....	.....	7	.....	10	.....	.....	0	0	h'vy	w.	cloudy.
Bk. Ottawa, N. 41° 00′. W. 65° 40′	30.15	765.8	64	17.8	.....	ne.	.....	.....	3	.....	2	.....	wnw.	5 h'r	5 h'r	sm'h	n.	clear.
S. Paramita, N. 40° 12′, W. 72° 57′†	30.11?	764.8?	72	22.2	.....	var.	.....	.....	1-6	.....	3	.....	nw.	0	0	small	wsw.	clear.
Sch. Rollin Sanford, N. 26° 21′, W. 82° 30′†	30.01	762.2	.....	.....	.....	calm	.....	.....	0	.....	5	.....	nw.	0	0	sm'h	.....	fair.
Bg. Rising Sun, San Juan, Porto Rico, W. I†	30.00	762.0	83	28.3	.....	e.	.....	.....	4	.....	0	.....	ese.	0	0	.....	.....	fair.
Bgt. Sunlight, Demerara, British Guiana*†	29.99	761.7	.....	.....	.....	ese.	.....	.....	3	.....	0	.....	ese.	0	0	.....	.....	fair.
Bk. Scud, N. 31° 28′, W. 70° 13′*†	30.18	766.6	84	28.9	.....	sse.	.....	.....	4	.....	0	.....	sse.	0	0	sm'h	.....	fine.
Bk. Southern Belle, Gibraltar, Mediterranean†	29.97?	760.7?	70	21.1	.....	w.	.....	.....	2	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Tuck Sing, off Cienfuegos Light, Cuba*†	29.98	761.5	.....	.....	.....	nne.	.....	.....	1	.....	0	.....	.....	1 h'r	1 h'r	sm'h	.....	fine.
S. S. Tower Hill, N. 49° 42′, W. 16° 39′*†	30.30?	769.6?	.....	.....	.....	nw.	.....	.....	4	.....	3	.....	nw.	.....	.....	mod.	nw.	fair.
Schr. Viola Reppard, New Point Comfort, Va †	30.19	766.8	68	20.0	.....	ne.	.....	.....	7	.....	8	.....	ne.	0	0	.....	.....	fair.
Bgt. Willie, N. 10° 56′, W. 37° 20′*†	30.05	763.3	84	28.9	.....	ese.	.....	.....	2	.....	6	.....	ese.	sq'lls	sq'lls	cross	var.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.01	762.2	70	21.1	78	n.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Opal, Elephant bay, Benguela	29.98	761.5	69	20.6	95	wsw.	.....	.....	1	.....	4	wsw.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Sylvia, Buenos Ayres, La Plata	30.23	767.8	49.2	9.6	90	w.	.....	.....	1	.....	1	calm	.....	.....	.....	.....	.....	blue sky
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.29	769.4	52	11.1	93	sw.	6	2.7	.....	.....	0	.....	.....	0	0	sm'h	.....	clear.
U. S. S. Nipsic, Montevideo, Uruguay*	30.21	767.3	54	12.2	80	ssw.	.....	.....	3	.....	5	.....	calm.	.....	.....	sm'h	.....	fair.
S. S. Hevelius, Rio de Janeiro, Brazil*†	30.20	767.1	76	24.4	.....	ne.	.....	.....	2	.....	2	.....	nne.	0	0	sm'h	.....	hazy.
Bk. Great Surgeon, S. 12° 08′, W. 29° 37′*†	30.32	770.1	76	24.4	.....	se.	.....	.....	5	.....	3	.....	se	0	0	short	se.	fair.
S. Gatherer, S. 17° —′, W. 34° —′*	30.09	764.3	75	23.9	72	e.	.....	.....	4	.....	1	.....	ene.	0	0	cross	nne.	clear.
Bk. Godeffroy, S. 42° 54′, W. 59° 16′	29.80	756.9	46.2	7.9	80	sw.	.....	.....	3-4	c	4	.....	.....	0	0	mod.	nw.	fair.
Bkt. Louise Adelaide, S. 6° 00′, W. 30° 55′†.	30.07	763.8	83	28.3	.....	se.	.....	.....	5	.....	2	.....	se.	½h'r	½h'r	long	s.	clear
S. S. Olbers, Bahia, Brazil	30.23	767.8	76.5	24.7	86	sw.	.....	.....	2	.....	6	.....	sw.	1 h'r	1 h'r	sm'h	.....	fair.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.12	765.0	57	13.9	.....	wnw.	.....	.....	2-4	.....	8	wsw.	.....	.....	.....	.....	.....	drizzling.
Bg. John Wesley, Rio de Janeiro, Brazil*†	30.05	763.3	74	23.3	.....	calm.	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.85	758.2	66	18.9	74	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Flying Fish, N. 37° 09′, E. 126° 09′	29.83	757.7	74.2	23.4	80	sw.	.....	.....	2	.....	6	.....	.....	.....	.....	2	sw.	misty.
H. M. S. Magpie, N. 5° 27′, E. 119° 10′	29.83	757.7	82.2	27.9	83	s.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Mutine, N. 24° 05′, W. 113° 52	29.94	760.5	75	23.9	.....	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	2	ne.	blue sky.
H. P. M. S. Tamega, Macao, China	29.77	756.0	83.3	28.5	71	ne.	.....	.....	2	.....	1	.....	.....	5 h'r	5 h'r	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.96	761.0	77	25.0	95	calm	.....	.....	0	.....	2	.....	sw.	0	0	.....	.....	clearing.
U. S. S. Essex, N. 32° 54′. E. 128° 08′	29.90	759.4	81	27.2	87	sw.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Monocacy, Roze Island, Corea	29.80	756.9	80	26.7	82	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	fair.
U. S. S. Palos, Hong Kong, China	29.75	755.6	82	27.8	83	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	fair.
U. S. S. Pensacola, N. 20° 05′, W. 164° 09′*	29.99	761.7	76	24.4	86	ene.	.....	.....	5	.....	5	.....	ene.	light	light	light	e.	fair.
U. S. S. Richmond, Yokohama, Japan	29.90	759.4	78	25.6	95	nne.	.....	.....	1	.....	10	.....	nne.	0	0	.....	.....	cloudy.
S. S. Coptic, Yokohama, Japan	29.93	760.2	79.5	26.4	95	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	blue sky.
S. S. Oceanic, N. 45° 39′, E. 172° 29′	29.94	760.5	55	12.8	74	ne.	.....	.....	3	.....	8	.....	ne.	0	0	con.	.....	d. clouds.
S. S. Columbia, N. 43° 33′ W. 124° 32′ †	30.07	763.8	55	12.8	100	sse.	.....	.....	2	.....	10	.....	se.	.....	.....	sm'h	s.	dense fog.
S. S. Oregon, Columbia River, Oregon†	30.13	765.3	55	12.8	68	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
S. S. Ancon, N. 35° 20′, W. 121° 02′	.....	.....	57	13.9	87	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	light	wnw	foggy.
S. S. State of California, San Francisco, Cal†	30.07	763.8	52	11.1	100	w.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Queen of the Pacific, Astoria, Oregon†	30.11	764.8	57	13.8	87	ene.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	smoky.
S. S. Victoria, N. 39° 05′, W. 124° 05′ †	30.10	764.5	54	12.2	93	n.	.....	.....	5	.....	10	.....	nnw.	.....	.....	mod.	nnw.	rainy.
S. S. City of New York, N. 36° 31′ W. 125° 56′†	30.27	768.8	64	17.8	94	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. City of Pekin, N. 40° 29′, W. 130° 04′†	30.13	765.3	64	17.8	100	w.	.....	.....	4	.....	10	.....	w.	0	0	small	w.	cloudy.
S. S. City of Tokio, Yokohama, Japan †	30.04	763.0	79	26.1	82	ssw.	.....	.....	4	.....	5	.....	ssw.	0	0	.....	.....	fine.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.81	757.2	82	27.8	83	wsw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Colima, San Jose, Costa Rica†	29.92	760.0	79	26.1	82	nw.	.....	.....	2	.....	4	.....	calm	0	0	mod.	s.	clear.
S. S. Granada, N. 22° 53′, W 109° 22′†	29.97	761.2	84	28.9	83	se.	.....	.....	2	.....	5?	.....	e.	0	0	light	se.	clear?
S. S. San Juan, Panama, Panama	.....	.....	79	26.1	.....	wnw.	.....	.....	2	.....	7ks	.....	nw.	0	0	gr'd	nw.	d. clouds.
S. S. Benledi, Singapore, Malay Peninsula*	29.91	759.7	85	29.4	83	var.	.....	.....	1-3	.....	7	.....	.....	2 h'r	2 h'r	sm'h	.....	cloudy.
S. Mt. Washington, N. 43° 00′, W. 131° 10′ *†	30.15	765.8	64.3	17.9	71	wsw.	.....	.....	5	.....	3	.....	w.	0	0	h'vy	wsw.	fair.
S. St. David, N. 41° 01′, E. 159° 49′*†	29.87	758.7	69.3	20.7	90	n.	.....	.....	3	.....	10	.....	n.	3 h'r	3 h'r	long	var.	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.88	758.9	81.3	27.4	89	e.	.....	.....	1	.....	5	.....	.....	.....	.....	sm'h	.....	d. clouds.
U. S. S. Hartford, Callao Bay, Peru *..	29.97	761.2	60	15.6	94	sse	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	60	15.6	88	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Lackawanna, Callao, Peru*	29.96	761.0	60	15.6	88	s.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Onward, Callao, Peru*†	30.12	765.0	59	15.0	88	s.	.....	.....	2	.....	10	.....	s.	.....	.....	mod.	w.	misty.
U. S. S. Wachusetts, Callao, Peru*†	30.20	767.1	58	14.4	100	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
S. S. City of Sydney, Sydney, N. S. W *†	30.03	762.7	55	12.8	74	wsw.	.....	.....	1	.....	2 k	.....	sw.	.....	.....	.....	.....	clear.
Bk. Chas. Stewart, S. 14° 30′, W. 80° 00′†	30.13	765.3	60	15.6	.....	se.	.....	.....	7	.....	10	.....	ssw.	0	0	long	sw.	cloudy.
S. David Crockett, S. 22° 54′, W. 119° 29′*	30.06	763.5	71.5	21.9	83	n.	.....	.....	2	.....	2	.....	.....	0	0	long	sw.	blue sky.
S. Sovereign of the Seas, S. 49° 24′, W. 84° 28′*†	29.82	757.4	40	4.4	73	sw.	.....	.....	7	.....	4	.....	sw.	10 h'r	10 h'r	h'vy	wsw.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 15° 14′, E. 50° 30′	30.08	764.0	.....	.....	.....	se.	.....	.....	2	.....	8	ese.	.....	.....	.....	3	sse.	d. clouds.
H. M. S. Euryalus, S. 11° 10′, E. 48° 40′	29.94	760.5	75	23.9	86	ese.	.....	.....	6	.....	4	ese.	.....	.....	.....	4	ese.	d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.98	761.5	76	24.4	91	var.	.....	.....	1	.....	2	nnw.	.....	.....	.....	2	sse.	blue sky.
H. M S. Woodlark, Bushire, Persia	29.65	753.1	91.5	33.1	74	wnw.	.....	.....	5	.....	0	.....	.....	.....	.....	2	wnw.	misty.
U. S. S. Juniata, Batavia, Java	29.92	760.0	84	28.9	96	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	hazy
S. S. Galatia, N. 26° 37′, E 34° 56′†	29.65	753.1	82	27.8	91	nne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Pilgrim, S. 22° 33′, E. 61° 23′*†	30.20	767.1	.....	.....	.....	ese.	.....	.....	5	.....	6	.....	ese.	2 h'r	2 h'r	high	cf'd	fair.

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

UNITED STATES OF AMERICA.

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

Signal Office 1th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 7, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.5	77.4	25.2	77	n.			6		1			0	0	very fair	Roziere.
Algiers			30.04	762.9	76.3	24.6	57	ne.			3		0			0	0	clear	Thève.
La Calle			30.06	763.6	77.0	25.0	50	nnw.			5		3			0	0	pretty fair	Fonfrède.
Tunis			29.95	760.6	78.1	25.6	40	nnw.			4		3			0	0	pretty fair	Delord.
Saida			30.08	764.1															Pérès.
Tebessa			30.00	762.0	69.8	21.0	41	nw.			4		1			0	0	very fair	St. Martin.
Geriville					78.8	26.0	13	n.			2		0			0	0	clear	Forfert.
Laghouat			29.95	760.8	76.6	24.8	27	ese.			1		0			0	0	clear	Abraham.
Biskra			29.98	761.4	88.2	31.2	24	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.29	769.4	50.9	10.5	92	wsw.	9	4.0			10 kn			0.091	2.3	showery	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.96	761.0	30.05	763.3	48.0	8.9	87	w.	5	2.2			9			0.19	4.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	744.9	29.86	758.4	68.9	20.5	40	ne.			4		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.3	29.94	760.4	65.1	18.4	62	ene.	3.1	1.4			10			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.32	719.2	29.65	753.2	78.4	25.8	49	e.			3		2			0.484	12.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.1	29.99	761.7	59.4	15.2	65	w.			2		7			0	0	gloomy	The Staff.
Lemberg	28.94	735.0	29.91	759 8	56.7	13.7	94	ne.			2		10			0.177	4.5		Dr. T. Stanecki.
Pola	29.71	754.7	29.82	757.4	73.2	22.9	47	ne.			5		2			0.283	7.2		I. R.Hydrographic Office.
Szathmar	29.29	744.0	29.74	755.3	73.0	22.8	68	e.			3		5			0	0		Joseph Midlinszky, S. J
Szegedin	29.49	749.0	29.76	755.9	68.0	20.0	91	n.			2		10			1.925	48.9		Karl Stu[illegible]cel.
Trieste	29.78	756.5	29.88	759.0	72.3	22.4	38	ne.			1		6			0	0		Royal Academy.
Vienna	29.25	743.0	29.95	760.7	67.6	19.8	48	nw.			3		7			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.34	745.2	29.44	747.8	56.9	13.8	61	w.	25	11.2			4			0.175	4.4	blue sky	W. Boswell.
Armagh, Observatory	29.57	751.1	29.80	756.9	57.1	13.9	69	wsw.	14	6.3			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.77	756.1	56.1	13.4	66	w.	43	19.2			9					overcast	John Hartnup.
Bolton, Sharples	29.22	742.2	29.75	755.6	53.4	11.9	77	wsw.	36	16.1			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.53	745.0	29.73	755.1	56.0	13.3	88	sw.			5		10			0.14	3.6	raining	McLandsborough&Preston
Bridgetown, Barbadoes	29.96	761.0	30.00	762.0	83.0	28.3	71	se.			2		6					gloomy	Corpl. W. I. Cull, A. H.C
Cardington	29.76	755.9	29.86	758.4	58.0	14.4	59	w.			3.0		8					overcast	John McLaren.
Chatham, School M. E.	29.70	754.4	29.87	758.7	60.6	15.9	59	w.			1		7					gloomy	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.82	757.4	30.05	763.3	59.3	15.2	62	w.			3		7					d. clouds	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	69.8	21.0	46	e.			1		5					d. clouds	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.82	757.4	29.86	758.4	56	13.3	75	w.			4		8			0.02	0.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	74.0	23.3	90	e.			4		7					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.39	746.5	29.60	751.8	57.7	14.3	66	w.			5		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.71	754.6	29.88	758.9	59.7	15.4	63	wsw.			5		10					overcast	The Staff.
Guernsey	29.74	755.4	30.04	763.0	60.0	15.6	71	w.			2	c	5	n.				d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.86	758.4	29.90	759.4	59.7	15.4	48	wnw.	14	6.3			9					d. clouds	The Staff.
Leicester, Museum	29.56	750.8	29.81	757.2	58.0	14.4	64	w.			1		8					overcast	J. C. Smith.
Malta, Mediterranean	29.73	755.1	29.80	756.9	76.6	24.8	65	nw.			2		3			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.90	759.4	29.94	760.5	85.0	29.4	79	e.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.66	753.4	29.89	759.2	57.7	14.3	62	wsw.			4		9					overcast	The Staff.
Plymouth	29.93	760.2	30.01	762.2	62.7	17.1	64	w.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.31	744.5	29.41	747.0	54	12.2	87						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.62	752.3	29.68	753.9	83.8	28.8	60	calm			0		1					blue sky	W. H. Lyne.
Sheffield			29.70	754.4	55.0	12.8	68	sw.								0.04	1.0		W. F. Cooper.
Silloth Rectory	29.63	752.6	29.66	753.4	54.3	12.4	86	w.			5		5			0.085	2.2	d clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.76	755.9	54.8	12.7	74	w.	27	12.1			10					overcast	W. C. Carlisle.
Strathfield Turgiss					59.8	15.4	61	w.			2.0		8					d clouds	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	29.98	761.5	30.06	763.5	63	17.2	78	w.			4		9					gloomy	W. Newcomoe.
Valencia, Observatory	29.96	761.0	29.99	761.7	55.6	13.1	75	wsw.	18	8.0			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.50	749.3	29.90	759.4	73.8	23.2	62	nw.	18.6	8.3			4 n		nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.00	762.0	30.03	762 7	52	11.1	73	calm	0	0			10 ks			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.89	759.2	29.93	760.2	58	14.4	84	sw.	8	3.6		0	2 s		W.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.00	762.0	51	10.6	83	n.	5	2.2			10 ks		n.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.76	755.9	29.95	760.7	55.4	13.0	89	w.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	29.97	761.2	30.02	762.5	45.0	7.2		w.			3	c?	c?			0	0	overcast?	H A. Johnson.
Edmonton, N. W. T.	27.89	708 4			39	3.9	82	se.	12	5.4		10 cs	0	W.		0	0	cloudy	Alex. Taylor.
Father Point, Quebec*	30.04	763.0	30.07	763.8	44	6.7	93	nw.	5	2.2		5 cs	2 ks	n.	n.	0.08	2.0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.52	749.8	30.38	771.6	38	3.3	89	n.	8	3.6		0	5 ks		ne.	0.14	3.6	fair	James Stewart.
Fredericton, N. B.	29.93	760.2	30.00	762.0	50.0	10.0	86	nw.	4.0	1.8		0	0			0	0	blue sky	Prof.Thos. Harrison
Grand Manan, N. B.	29.92	760.0	29.97	761.2	56	13.3	83	se.	3	1.3		2 c	0	n.		0	0	hazy	J. Chipman Seeley
Granton, Ontario	28.86	733.0	29.95	760.7	55.0	12.8	87	sw.	2	0.9		9 cs	0	sw.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.89	759.4	30.02	762.5	55	12.8	86	sw.	5	2.2		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.52	749.8	29.91	759.7	53.9	12.2	96	w.			1		10 ks			0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.04	752.8	29.97	761.2	60	15.6	60	sw.	4	1.8			10 k		s.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.88	758.9	29.91	759.7	59.0	15.0	88	sw.			3	0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.14	740.1	30.03	762.7	56.7	13.7	90	calm	0	0			10 n			0.42	10.7	overcas	E. B. Reed.
Medicine Hat	27.92	709.2	30.22	767.6	45	7.2	86	n.	12	5.4		0	0			0	0	smoky	John Ewart.
Montreal, Quebec*	29.80	756.9	30.01	762.2	51	10.6	72	nw.	6	2.7			10 s		n.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.74	755.6	29.99	761.7	52.4	11.3	87	n.					10 s			0.016	0.4	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.25	742.9	29.94	760.5	50	10.0	93	ne.	18	8.0			10 n		sw.	0.07	1.8	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.20	741.7	29.93	760.2	54.2	12.3	87	w.			1	0	0			0	0	hazy	Wm. O'Connor,M.A.
Port Dover, Ontario	29.25	742.9	29.96	761.0	62	16.7	94	sw.	11	4.9			10 cs		sw.	0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.33	745.0	29.97	761.2	61	16.1	90	w.	6	2.7			10 n		W.	inap.	inap.	cloudy	M. Payne.
Que Appelle, N. W. T.	28.08	713.2	30.41	772.4	35	1.7	96	e.	10	4.5			10 n		e.	0.08	2.0	thund'rst'm	Leslie Gordon.
Quebec, Quebec*	29.66	753.4	30.01	762.2	48	8.9	100	ne.	6	2.7			10 n		ne.	0.02	0.5	light rain	Capt. Asne, R. N.
Rockliffe, Ontario*	29.60	751.8	30.06	763.5	45	7.2	93	ne.	6	2.7			10 s		ne.	0.10	2.5	light rain	W. H. McIntyre.
St. Andrews, N. B.	29.89	759.2	29.94	760.5	51	10.6	92	calm	0	0		0	0			0.20	5.1	clear	
St. John, N. B	29.83	757.7	29.98	761.5	51.0	10.6	100	w.	1	0.4			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F.	29.73	755.1	29.98	761.5	57	13.9	81	w.	2	0.9		0	0			0	0	clear	The Commandant.
Saugeen, Ontario*	29.20	741.7	29.90	759.4	58	14.4	83	w.	2	0.9			10 ks			0	0	cloudy	
Stratford, Ontario	28.70	729.0	29.97	761.2	53.9	12.2	93	w.	2.0	0.9			10 s			0	0	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F.			29.90	759.4	59.0	15.0		w.			4					0	0		The Commandant.
S. W. Point, Anticosti	29.84	757.9	29.87	758.7	44	6.7	83	nw.	6	2.7		7 ck	0	nw.		0	0	cloudy	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	OBSERVERS
Canadian.—Continued.																			
Sydney, C. B.	29.90	759.4	29.96	761.0	56	13.3	74	sw.	25	11.2		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.59	751.6	29.97	761.2	55	12.8	90	sw.	4	1.8			10 n		sw.	inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.94	735.1	29.99	761.7	56.9	13.8	87	w.	5.5	2.5			10 s			0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.97	761.2	30.03	762.7	54	12.2	93	sw.	4	1.8		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House.	30.09	764.3	30.12	765.0	61.0	16.1	69	sw.	10.2	4.6			10 ks			0.90	22.9	cloudy	I. Garfelt.
Springbok Fontein	27.89	708.4			55	12.8	71									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	29.95	760.6	30.02	762.6	50.9	10.5	94	s.			1	4 k	0	e.				fair	Samuel Redolez.
Iquique	29.98	761.6	30.01	762.3	58.8	14.9	79	sw.			3							cloudy	Rafael Moreno.
Niebla	29.89	759.3	30.00	762.0	35.6	2.0	93	e.			1	0	1 n		s.	0	0		Federico Köhling.
Punta Caldera	29.90	759.5	29.99	761.7	55.4	13.0	88	nw.			2		9 nk		se.			fair	Manuel Tobar.
Punta Corona	30.15	765.8	30.34	770.6				w.			4		4 k		nw.	0.244	6.2	fair	Ignacio Ayala.
Valparaiso	29.95	760.8	30.10	764.4	54.3	12.4	77	nw.			1							fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.11	637.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.88	758.9	29.91	759.6	80.6	27.0	90	e.	1.8	0.8			7 k			0	0	very cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.68*	753.8	29.72	755.0	57.7	14.3	74	sw.	11	5			9						Oversergent Fischer.
Fanoe	29.58	751.3	29.60	751.8	58.5	14.7	74	wsw.	13	6			8						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.45	747.9	29.49	749.0	47.5	8.6	91	calm	0	0			8						A. O. Thorlacius.
Thorshavn	29.43	747.5	29.45	748.1	52.2	11.2	88	ene.	9	4			5						Overloerer Bergh.
Vestervig	29.45	747.9	29.54	750.2	55.8	13.2	83	sw.	13	6			9					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.63	752.6			91.8	33.2		ne.	3.1	1.4			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.57	751.1	30.22	767.6	62.4	16.9	87	wnw.			1	ck		w.		0	0		M. Labroue, Director.
Alençon, Normal School	29.64	752.8	30.15	765.8	60.4	15.8	87	nw.			1		2		se.	0	0		M. Nicot, Director.
Avignon, Normal School	29.93	760.3	30.01	762.3	68.4	20.2	50	n.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.51	749.5	30.06	763.4	61.5	16.4	66	wsw.			1		8 kn		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.3	30.00	762.0	62.1	16.7	67	w.			1		10		w.	0.004	0.1	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.13	740.0	30.02	762.6	65.5	18.6	67	sw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.87	758.6	30.13	765.2	66.7	19.3	68	w.			1		10		w.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.51	749.5	30.06	763.4	60.8	16	84	s.			1				s.	0.04	1.		M. Malet, Director.
Brest, Naval Observatory	29.92	759.9	30.16	766.1	62.2	16.8	73	nw.			2		10		nw.	0.177	4.5		M. de Kermarec, Dir.
Caen, Normal School	29.94	760.4	30.02	762.5	62.6	17	72	w.			1		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.66	753.4	29.97	761.3	63.3	17.4	88	ssw.			6		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.46	748.2	29.97	761.1	59.5	15.3	74	sse.			1		10			0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.74	730.0	30.07	763.7	66.6	19.2	58	w.			1		8			0	0		M. Alluard, Director.
Cluny, Normal School	29.25	742.9	30.09	764.3	64.4	18	56	nw.			1				nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.4	30.04	763.1	57.6	14.2	76	w.			4		5 kn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.18?	690.4?	29.63?	752.6?	65.3	18.5	56	n.			6	1 c				0	0		M. Jarach, Director.
Grésasque, du Rhone	28.86	733.1	29.99	761.7	72.0	22.2	35	nw.			2		7		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.30	744.1	30.06	763.4	66.9	19.4	54	ene.			1		k		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.52	724.3	30.08	764.1	57.2	14	89	sw.			4		8 kn		ne.	0	0	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.84	758.0	30.12	765.0	60.8	16	79	sw.			2		5		sw.	0.04	1.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.56	750.9	30.19	766.9	67.6	19.8	57	w.			1	2 c				0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	763.0	30.14	765.6	61.5	16.4	69	nw.			1		10		calm	nw.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.5	30.08	763.9	65.3	18.5	47	n.			1		k		n.	0	0	clear	M. André, Director.
Mans, Normal School	29.79	757.7	30.10	764.4	62.1	16.7		w.			4		8 kn		nw.	0	0	very cloudy	M. Richard, Director.
Marseille, Observatory	29.68	753.9	29.95	760.6	73.0	22.8	60	wnw.			2-4		7		wnw.	0	0		M. Stephan, Director.
Montlouis	29.93	633.3	29.78	756.3	63.5	17.5	17	w.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.7	29.98	761.4	78.1	25.6	62	nnw.			2		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	30.00	761.9	30.16	766.0	63.1	17.3	59	nnw.			1-2		9 k; kn		n.	0.079	2.0		M. Larocque, Director.
Perpignan, Observatory	29.95	760.7	30.06	763.4	73.9	23.3	35	nw.	15.0	6.7			2	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			41.7	5.4		ne.			1		2		nw.	0	0	slightly cl'dy	M. Vaussenat, Director.
Privas, Normal School	29.01	736.8	30.06	763.6	61.9	16.6	73	ne.			1		2 s		nw.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.1			44.6	7.0	100	w.			3		10			0.016	0.4	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.07	763.7	30.10	764.5	66.2	19.0	81	calm			0		10		w.	0.059	1.5	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.3	30.11	764.7	63.7	17.6	90	nw.			2		5		nw.	0.12	3.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.99	710.8	30.14	765.5	54.1	12.3	81						10		se.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.97	761.2	30.02	762.4	62.2	16.8	87	w.			6		10	w.		0.004	0.1	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.87	758.7	30.03	762.8	64.2	17.9	59	w.			1		10		w.	0.012	0.3		M. Renou, Director.
Toulouse, Observatory	29.46	748.3	30.19	766.8	67.1	19.5	61	nnw.			2		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.90	759.5	30.08	764.0	64.4	18.0	62	w.			1		5	w.	wsw.	0.004	0.1	cloudy	M. de Tastes.
Versailles, Observatory	29.54	750.4	30.04	763.0	61.2	16.2	58	w.			2		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.03	762.7	30.18	766.5	69.4	20.8	59	w.	5.8	2.6		ck	4 k		wnw.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.57	725.7	29.99	761.8	61.9	16.6	48	w.			2		9	w.		0	0		Prof. Jnedt.
Bamberg	29.17	740.8	30.01	762.2	60.8	16.0	60	w.			2		9 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.75	755.7	29.89	759.2	64.0	17.8	53	sw.			3		9			0	0		Dr. Lensch.
Breslau	29.45	747.9	29.98	761.4	67.8	19.9	42	sse.			2		5	sw.		0	0		Royal University Obs'y.
Carlsruhe	29.58	751.2	30.03	762.7	61.9	16.6	62	sw.			4		10	sw.		0	0		Albert Senz.
Cassel	29.21	742.0	29.93	760.1	58.6	14.8	72	sw.			6		6	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	26.62	752.3	29.98	761.5	61.2	16.2	67	sw.			1		10			0	0		Physical Society.
Friedrichshafen	28.64	727.4	30.03	762.7	62.6	17.0	62	sw.			1		2	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.69	754.2	29.78	756.5	61.5	16.4	73	sw.			6		6	w.		0.047	1.2		E. Preller.
Kiel	29.74	755.4	29.76	755.8	55.2	12.9	83	wsw.			2		10			0.098	2.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.52	749.7	29.93	760.1	66.9	19.4	42	sw.			4		8	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.69	754.0	29.87	758.6	66.7	19.3	51	sw.			4		8	sw.		inap.	inap.		Weather Observatory.
Memel	29.94	760.4	29.98	761.6	62.6	17.0	78	sw.			3	7 cs							Issermann.
Munich	28.20	716.3	30.06	763.6	61.0	16.1	54	nw.			1		5	w.		0.012	0.3		Central Station.
Neufahrwasser	29.92	760.0	29.94	760.4	67.5	19.7	50	s.			3		7	s.		0	0		A. Lothes.
Neustadt, Palatinate	29.48	748.9	30.01	762.3	61.0	16.1	66	w.			3		10	w.		0	0		Dicknether.
Stuttgart	29.05	737.8	29.92	760.0	64.0	17.8	50	sw.			4		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.75	755.7	29.78	756.3	62.2	16.8	68	se.			2		10 s			0.020	0.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.32	744.6	29.69	754.0	82.8	28.2		sw.			2.0		7			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.51	749.5	29.56	750.7	83.7	28.7	73	sw.	32.0	14.3			2	sw.		0	0	d. clouds	
Deesa	29.06	738.0	29.52	749.9	83.5	28.6	69	sw.	13.0	5.8			10	sw.	sw.	0	0	overcast	
Bombay	29.65	753.1	29.69	754.0	81.1	27.3	88	w.	16.0	7.2			10		w.	0.04	1.0	overcast	
Poona, Yarrowda	27.83	706.9	29.69	754.0	75.3	24.1	82	nw.	19.0	8.5			8			0.24	6.1	d. clouds	
Trichinopoly	29.50	749.3	29.77	756.2	93.1	33.9	42	w.	0.8	0.4			10			0	0	overcast	
Bellary	28.22	716.8	29.67	753.7	83.0	28.3	56	w.	12.0	5.4			10			0	0	gloomy	
Belgaum	27.22	691.3	29.75	756.4	68.4	20.2	95	wsw.	9.0	4.0			10	w.		0.63	16.0	overcast	
Lahore	28.84	732.6	29.58	751.3	77.9	25.5	95	e.	4.0	1.8			10		s.	2.41	61.2	raining	
Roorkee	28.64	727.4	29.51	749.6	87.8	31.0	67	calm	0.5	0.2			2			0.20	5.1		
Agra	28.94	735.0	29.48	748.9	90.2	32.3	63	se.					4		e.	0	0	d. clouds	
Nagpur	28.50	723.9	29.53	750.1	79.5	26.4	83	w.	6.0	2.7			8		w.	0.17	4.3	d. clouds	
Jubbulpore	28.16	715.4	29.59	749.2	82.7	28.2	75	sw.	4.0	1.8			9		sw.	0.01	0.3	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.15	740.3	29.51	749.6	87.1	30.6	70	calm	0	0	.....	.....	0	.....	.....	0.01	0.3	blue sky	
Allahabad	29.17	740.8	29.47	748.6	87.9	31.1	76	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.32	744.6	29.50	749.2	88.6	31.4	69	ne.	4.9	2.2	.....	.....	5	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.50	698.4	29.48	748.9	77.5	25.3	87	e.	10.0	4.5	.....	.....	10	.....	.....	0.68	2.0	drizzling	
Cuttack	29.37	746.1	29.46	748.2	78.8	26.0	82	w.	5.0	2.2	.....	.....	7	.....	.....	4.00	101.6	d. clouds	
Calcutta, Alipore	29.47	748.6	29.49	749.1	81.2	27.3	83	sse.	10.5	4.7	.....	.....	4	.....	e.	0.10	2.5	d. clouds	
Dhubri	29.43	747.4	29.54	750.4	87.4	30.8	76	calm	0.8	0.4	.....	.....	4	e.	.....	0	0	d. clouds	
Chittagong	29.52	749.9	29.62	752.2	81.6	27.6	82	se.	5.9	2.6	.....	.....	8	.....	.....	0	0	d. clouds	
Sibsagar	29.24	742.6	29.56	750.9	89.8	32.1	73	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.08	713.3	29.49	749.1	86.7	30.9	69	ese.	4.0	1.8	.....	.....	5	.....	ese.	0.34	8.6	d. clouds	
Zanzibar	29.98	761.5	.....	.....	79.7	26.5	70	calm	1.6	0.7	.....	.....	9	.....	se.	0	0	misty	
ITALIAN.																			
Udine	29.48	748.8	29.88	758.9	71.4	21.9	44	calm	0	0	.....	.....	2	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.43	747.4	29.93	760.1	71.2	21.8	57	s.	1.8	0.8	.....	.....	1	.....	.....	0	0	.....	Prof. G.V.Schiapparelli
Padua	29.78	756.4	29.89	759.1	70.5	21.4	42	wsw.	1.8	0.8	.....	.....	2	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.7	29.92	760.0	68.4	20.2	46	sw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.71	754.5	29.89	759.2	75.2	24.0	29	n.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	29.93	760.3	66.6	19.2	40	w.	.....	.....	4	.....	3	.....	.....	0.138	3.5	.....	Prof. D. C. Bruno.
Pesaro	29.82	757.4	29.87	758.6	70.9	21.6	58	nnw.	11.9	5.3	.....	.....	1	.....	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.62	752.3	29.87	758.6	72.5	22.5	37	nne.	.....	.....	4	.....	3	n.	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.73	755.1	29.81	757.2	71.2	21.8	57	w.	1.8	0.8	.....	.....	3	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.58	751.4	29.75	755.7	72.3	22.4	48	n.	18.6	8.3	.....	.....	4	.....	.....	0.626	15.9	.....	Prof. P. Tacchini.
Lecce	29.42	747.3	29.66	753.4	64.8	18.2	62	ssw.	7.4	3.3	.....	.....	8	w.	.....	0.165	4.2	.....	Prof. C. de Giorgi.
Cosenza	28.84	732.6	29.70	754.3	71.2	21.8	61	wsw.	2.5	1.1	.....	.....	9	sw.	.....	0.535	13.6	.....	Prof. D. Conti.
Cagliari	29.69	754.2	29.88	759.0	74.7	23.7	43	nw.	.....	.....	4	.....	3	nw.	.....	0.142	3.6	.....	Prof. A. Pacinotti.
Palermo	29.58	751.2	29.97	761.3	70.0	21.1	66	nw.	9.4	4.2	.....	.....	10	nw	.....	0.996	25.3	.....	Prof. G. Caccintore.
Syracuse	29.69	754.2	29.74	755.3	78.6	25.9	41	wsw.	21.0	9.4	.....	.....	4	w.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.23	742.5	29.74	755.4	70.9	21.6	66	wsw.	0.7	0.3	.....	.....	7	nnw.	.....	0.173	4.4	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.69	754.0	29.73	755.0	76.4	24.7	94	sw.	.....	.....	6	.....	10k;ks	.....	sw.	0.425	10.8	.....	H. Hattori.
Awomori	29.52	749.8	29.55	750.6	71.0	21.7	86	w.	24.9	11.1	.....	.....	10 n	.....	.....	0.350	8.9	heavy rain.	K. Ogawa.
Hamamatsu	29.87	758.7	29.90	759.4	78.4	25.8	87	sw.	.....	.....	2	5 cs	0	.....	.....	0	0	fair	Sekigawa & Yamazaki.
Kagoshima	29.95	760.6	29.96	760.9	76.7	24.8	87	calm	.....	.....	0	0	0	.....	.....	0	0	clear	G. Miyanomaza.
Kanazawa	29.80	757.0	29.90	759.4	79.5	26.4	72	s.	5.9	2.6	.....	.....	10ck,ks	.....	.....	0.800	20.3	overcast	S. Endo.
Kioto	29.74	755.4	29.91	759.8	75.5	24.2	77	wnw.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	29.93	760.3	29.95	760.7	77.4	25.2	85	e.	4.4	2.0	.....	0	1 s	.....	.....	0	0	clear	K. Kusunose.
Miasaka	29.93	760.1	29.95	760.8	77.0	25.0	89	wnw.	.....	.....	1	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	29.52	749.9	29.63	752.7	78.9	26.1	57	s.	8.9	3.9	.....	.....	9 s	.....	.....	0.004	0.1	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.76	755.9	29.95	760.7	77.4	25.2	80	calm	0	0	.....	1 cs	1 s	w.	.....	0	0	clear	S. Takenayusu.
Niigata	29.79	756.6	29.82	757.4	76.8	26.0	75	w.	15.0	6.7	.....	.....	9ks;s	.....	w.	0.590	15.0	covered	Satoo & Tomikawa.
Nobiru	29.71	754.5	29.72	754.9	80.2	26.8	64	w.	9.1	4.0	.....	0	9s;ks	.....	w.	0	0	fair	Yoshino & Midzushina.
Numazu	29.83	757.7	29.87	758.6	77.9	25.5	82	ssw.	.....	.....	7	.....	10ks;s	.....	w.	0	0	cloudy	R. Kaneda.
Osaka	29.89	759.2	29.90	759.6	78.9	26.1	75	w.	8.3	3.7	.....	0	0	.....	.....	0	0	clear	H. Omura.
Sakai	29.88	758.9	29.89	759.1	78.3	25.7	77	wsw.	.....	.....	2	0	0	.....	.....	0.421	10.7	clear	Yamawchi&Sakamoto.
Shimonoseki	29.78	756.4	29.93	760.1	79.1	26.2	84	calm	.....	.....	0	0	0	.....	.....	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.74	755.3	29.81	757.1	77.4	25.2	76	sw.	13.1	5.9	.....	0	0	.....	.....	0	0	clear	The Staff.
Wakayama	29.86	758.5	29.91	759.8	78.9	26.1	74	s.	0.2	0.1	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.16	766.1	72.8	22.7	63	ese.	20.5	9.2	.....	0	2 ks	.....	ese.	0.19	4.8	clear	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.03	762.7	59.5	15.3	86	wnw.	0.9	0.4	.....	4 c	1ck;s	.....	.....	0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.71	754.6	29.97	761.1	80.0	26.7	91	ene.	1.6	0.8	.....	.....	8 n	.....	se.	0	0	very cloudy	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	79	26.1	88	se.	.....	.....	1	.....	10 k	.....	.....	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.87	758.8	29.87	758.8	61.0	16.1	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	29.71	754.6	29.76	756.0	53.8	12.1	.....	sw.	.....	.....	3	.....	.....	.....	.....	0.209	5.3	.....	
Helder	29.76	756.0	29.76	756.0	58.3	14.6	.....	wsw.	.....	.....	4	.....	.....	.....	.....	0.028	0.7	.....	
Hellevoetsluis	29.84	758.0	29.84	758.0	58.5	14.7	71	w.	.....	.....	4	.....	.....	.....	.....	0.354	9.0	.....	
Utrecht	29.80	757.0	29.85	758.2	59.9	15.5	83	sw.	.....	.....	3	.....	8	.....	.....	0.169	4.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.88	759.0	.....	.....	80.1	26.7	72	nne.	0	0	.....	.....	2	.....	.....	0	0	.....	Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.34	745.3	29.41	746.9	55.4	13.0	68	sse.	11.2	5.0	.....	.....	9	.....	.....	0	0	.....	
Brono	29.37	746.1	29.41	747.1	55.8	13.2	75	w.	.....	.....	4	.....	8	.....	.....	0.866	22.0	.....	
Christiania	29.32	744.8	29.47	748.4	54.5	12.5	94	calm	0	0	.....	.....	9	.....	.....	0.024	0.6	foggy	
Gjesvær	29.32	744.6	29.34	745.2	62.6	17.0	.....	ssw.	.....	.....	7	.....	4	.....	.....	.....	.....	.....	
Lodingen	29.24	742.8	29.29	744.0	57.2	14.0	65	w.	.....	.....	2	.....	10	.....	.....	0.110	2.8	raining	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	72.7	22.6	86	ene.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	29.97	761.3	30.06	763.4	72.7	22.6	69	sw.	1.3	0.6	.....	.....	9	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.00	761.9	81.0	27.2	29	ne.	15.4	6.9	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	70.9	21.6	74	ne.	8.7	3.9	.....	.....	3	.....	.....	0.024	0.6	.....	
Saint Paul de Loanda	29.79	756.6	29.99	761.8	70.5	21.4	82	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	
San Salvador, Congo	28.13	714.4	29.98	761.6	71.4	21.9	60	w.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	
Serra da Estrella	25.43	645.8	30.00	762.1	65.5	18.6	33	ese.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	
RUSSIAN.																			
Akmolinski	28.91	734.3	29.97	761.3	57.6	14.2	28	nne.	9	4	.....	1 ck	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.89	759.2	29.91	759.7	72.7	22.6	72	ese.	4	2	.....	0	0 ks	.....	.....	0	0	.....	Capt. Sseliwerstow
Ashurada	29.92	760.0	29.83	757.6	83.5	28.6	63	nw.	11	5	.....	0	3 k	.....	.....	0	0	.....	
Astrakhan	30.02	762.5	29.95	760.7	84.0	28.9	31	ese.	4	2	.....	ck	4 s	.....	.....	0	0	.....	Capt. Wilganow.
Baku	29.90	759.4	29.85	758.2	82.2	27.9	47	nnw.	13	6	.....	0	1 s	.....	.....	0	0	.....	
Barnaul	29.40	746.8	29.90	759.4	51.4	10.8	77	w.	4	2	.....	.....	9	.....	.....	0.012	0.3	.....	Meteorological Obs'y
Bieloserak	29.52	749.7	29.96	761.0	77.2	25.1	57	s.	9	4	.....	4 ck	0	.....	.....	0	0	.....	
Dorpat	29.76	756.0	30.00	762.0	64.8	18.2	60	s.	7	3	.....	0	0 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.29	743.9	30.20	768.6	52.2	11.2	71	nw.	4	2	.....	c	9 n;s	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.47	748.6	29.89	759.3	80.0	30.0	27	ese.	7	3	.....	0	4 k	.....	.....	0	0	.....	
Irkutsk	28.37	720.5	30.02	762.4	45.9	7.7	58	calm	.....	.....	0	.....	4	.....	.....	0.154	3.9	.....	
Kasalinsk	.....	.....	.....	.....	72.3	22.4	41	n.	13	6	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.87	758.8	30.13	765.4	73.4	23.0	29	ese.	4	2	.....	0	3	.....	.....	0	0	light clouds	Observatory.
Kem	29.76	756.0	29.82	757.3	63.1	17.3	80	sw.	13	6	.....	.....	10 ks	.....	.....	0	0	heavy clouds	
Kertch	29.82	757.4	29.84	758.0	78.4	25.8	61	ne.	4	2	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.28	743.8	29.88	759.0	79.0	26.1	51	n.	13	6	.....	c; cs	2 ks	.....	.....	0	0	.....	Observatory.
Koslov	29.50	749.3	29.98	761.4	83.3	28.5	39	ssw.	2	1	.....	0	4 ks	.....	.....	0	0	.....	
Liban	29.94	760.4	29.96	761.0	61.9	16.6	68	sw.	.....	.....	6	.....	3	.....	.....	0.047	1.2	.....	E. Quaas.
Lugan	29.72	755.0	29.92	759.9	85.5	29.7	21	ene.	18	8	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.50	749.4	29.95	760.6	79.9	26.6	47	sw.	7.8	3.5	.....	0	4 ks	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.80	756.9	29.87	758.7	90.1	32.3	33	e.	16	7	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	.....	.....	.....	.....	46.4	8.0	79	wsw.	16	7	.....	.....	9 n	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.90	759.5	30.04	763.1	62.1	16.7	66	calm	0	0	.....	.....	9 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.50	749.2	29.83	757.6	85.3	29.6	16	n.	2	1	.....	0	3 k	.....	.....	0	0	.....	
Petrozavodsk	29.72	755.0	29.92	759.9	63.3	17.4	76	w.	11	5	.....	0	7 ks	.....	.....	0	0	.....	Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.50	749.2	29.98	761.6	64.6	18.1	75	e.	9	4			10 s			0	0		
Poti	29.81	757.1	29.84	757.9	80.1	26.7	75	sw.	4	2		0	0			0	0		
St. Petersburg	29.97	761.1	29.99	761.7	62.8	17.1	64	nw.	7	3		cs	3 k			0	0		Central Physical Obs'y.
Samarkand	27.36	695.0	29.71	754.6	75.9	24.4	20	calm	0	0		0	0			0	0		
Semipalatinsk	29.32	744.7	29.97	761.3	55.6	13.1	43	calm	0	0			8			0	0		Major Lasarew
Sevastopol	29.58	751.4	29.78	756.5	85.1	29.5	43	wnw.	20	9		0	1 ks			0	0		
Staroi Bykhov	29.47	748.6	30.01	762.2	69.4	20.8	67	ne.	2	1		c	7 kn			0.008	0.2		
Tashkend Laboratory	28.11	714.1	29.67	753.5	86.5	30.3	31	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.44	722.3	29.76	756.0	87.3	30.7	26	s.	4	2		1 ck	0			0	0		Physical Observatory.
Vernoe	27.26	692.3	29.62	752.4	75.9	24.4	43	calm	0	0		0	0			0	0		
Viatka	29.55	750.6	30.17	766.2	70.0	21.1	61	se.	2	1			0			0	0		
Warsaw	29.57	751.1	29.98	761.6	66.4	19.1	59	se.	4	2		0	8 k			0.028	0.7	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.80	756.8	30.08	764.0	53.2	11.8	49	e.	2	1			3			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.94	760.5	30.04	763.1	75.6	24.2	61	s.	4.9	2.2		1c;cs	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.08	764.0	30.14	765.5	73.4	23.0	55	ne.	1.8	0.9		2	0	nw.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.18	690.3	30.05	763.3	71.1	21.7	37	n.	4.3	1.9			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.87	708.0	30.01	762.2	78.6	25.9	21	nw.	5.6	2.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.90	759.5	30.04	763.0	82.2	27.9	58	ese.	4.0	1.8		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.39	746.4	30.15	765.7	61.7	16.5	82	nw.	6.9	3.1		6 n	6 k	n.	nw.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.19	741.4	30.06	763.5	70.7	21.5	68	ne.	7.4	3.3			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.86	758.4	29.92	760.0	78.0	25.6	88	se.	1.1	0.5		1 cs	4 k	nnw.	n.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.70	754.3	29.75	755.7	76.7	24.8	90	sse.	5.5	2.5		2 c	7 kn		sw.	1.378	35.0	foggy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.87	758.7	29.97	761.2	82.9	28.3	32	e.	30.2	13.5		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.92	760.0	30.01	762.3	81.0	27.2	84	e.	17.4	7.8		4 s	6 kn	e.	se.	0.047	1.2	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.64	752.8	29.68	753.8	54.3	12.4	87	sw.			4		10			0.354	9.0		
Umea	29.58	751.4	29.63	752.7	53.4	11.9	90	sw			6		10			0	0		
Hernosand	29.53	750.0	29.58	751.3	60.4	15.8	50	s.			6		5			0	0		
Stockholm	29.59	751.5	29.76	756.0	59.7	15.4	61	ssw.			6		10			0	0		
Wisby	29.71	754.7	29.77	756.2	60.4	15.8	68	sw.			6		7			0	0		
Sub-series.																			
Upsala	29.62	752.3	29.71	754.5	57.7	14.3	68	s.	18.8	8.4			8		sw.	0	0		H.H. Hildebrandesson,
Swiss.																			
Geneva	28.66	728.0	30.06	763.5	63.7	17.6	56	n			2		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			29.74	755.3	82.8	28.2	59	ne.	9	4.0			2		ne.	0	0		The Observatory.
Valona			29.83?	757.6?	72.5	22.5		w.			1		10			1.61	41.	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.77	756.1	86.9	30.5	60	sw.			2		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.84	681.7			66	18.9	78	ne.			3		10 n		sw.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	56.5	13.6	72	sw.	1	0.4		0	fg.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.24	742.7	29.89	759.2	52	11.1	93	e.	12	5.4			10 n			0.09	2.3	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.94	760.5	55	12.8	93	se.	4	1.8		0	6 s			0.26	6.6	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.35	694.7	30.20	767.1	49	9.4	93	ne.	12	5.4			10 s		n.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.11	764.8	62.0	16.7	90	se.	4	1.8		hz.	fg. hz			0	0	dense haze.	Edward A. Beals.
Atlantic City, New Jersey	30.04	763.0	30.06	763.5	56	13.3	80	w.	1	0.4		0	hz.			0	0	dense haze.	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	66.0	18.9	84	n.	1	0.4		9 k	0	n.		inap.	inap.	cloudy	D. J. Young.
Baltimore, Maryland	30.03	762.7	30.08	764.0	57	13.9	69	s	3	1.3			hz.			0	0	dense haze.	Geo. W. Fisher.
Barnegat City, New Jersey	30.04	763.0	30.06	763.5	63.0	17.2	73	n.	4	1.8		0	fg.			0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.79	759.7	29.81	757.2	46.7	8.2	97	s.	7	3.1			10 n			0	0	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.67	728.2	30.26	768.6	51.0	10.6	80	ne.	14	6.3			10 s		ne.	inap.	inap.	cloudy	A. Pritchard
Benton, Fort, Montana	27.44	697.0	30.28	769.1	51	10.6	93	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.48	723.4	30.28	769.1	46	7.8	67	ne.	10	4.5			10 s		ne.	0.03	0.8	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.02	762.5	30.05	763.3	62	16.7	84	n.	3	1.3		0	0			0	0	clear	J. T. Eiker.
Boise City, Idaho	27.18	690.4	29.95	760.7	42	5.6		se.	3	1.3		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.86	758.4	30.01	762.2	56.0	13.3	74	w.	8	3.6		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.99	761.7	76.0	24.4	97	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.24	742.7	29.97	761.2	59.8	15.4	67	s.	7	3.1		0	9 s		sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.31	719.1	30.29	769.4	45	7.2	86	e.	14	6.3			10 s		e.	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.66	753.4	30.06	763.5	62.6	17.0	87	s.	2	0.9		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.90	759.4	30.10	764.5	56.0	13.3	97	s.	12	5.4		0	3 s		s.	0.26	6.6	clear	O. D. Stewart.
Cape Henry, Virginia	30.06	763.5	30.08	764.0	66.0	18.9	63	n.	4	1.8		0	0			0	0	clear	A. R. Alderson.
Cape May, New Jersey	30.03	762.7	30.06	763.5	65.0	18.3	65	n.	4	1.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.39	746.5	30.07	763.8	57	13.9	80	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	75	23.9	90	n.	11	4.9		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	66.0	18.9	90	n.	8	3.6		0	1 s		ne.	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.10	764.5	61.0	16.1	84	nw.	2	0.9		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.11	764.8	60.0	15.6	93	calm	0	0		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.27	616.4	30.13	765.3	44.9	7.2	71	nw.	5	2.2		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.17	740.9	29.86	758.4	63.0	17.2	72	sw.	8	3.6			10ks;s		sw.	0.07	1.8	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	59	15.0	81	nw.	10	4.5		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.07	763.8	53.0	11.7	86	e.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.26	743.2	29.98	761.5	52.3	11.3	72	se.	7	3.1			10 s		w.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.20	741.7	30.04	763.0	51	10.6	80	s.	2	0.9		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.13	714.5	30.03	762.7	68.4	20.2	93	ne.	1	0.4			10 n			0.04	1.0	light rain	J. McGlone.
Custer, Fort, M. T.	27.02	686.3	30.14	765.5	52	11.1	80	ne.	5	2.2		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.16	740.7	29.81	757.2	65	18.3	84	sw.	11	4.9			10 s		sw.	0.13	3.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.99	761.7	61	16.1	72	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.06	763.5	60	15.6	46	s.	6	2.7		0	sk.			0	0	dense smoke.	D. Moore.
Deadwood, Dakota	25.59	650.0	30.15	765.8	48	8.9	86	calm	0	0		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.04	763.0	30.06	763.5	60	15.6	87	w.	11	4.9		0	0			0	0	clear	T. S. Townsend.
Denver, Colorado	24.95	633.7	30.06	763.5	55.0	12.8	72	s.	7	3.1		0	0			0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	28.96	735.6	29.85	758.2	68	20.0	73	nw.	3	1.3		5 cs	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.28	743.7	29.97	761.2	60.0	15.6	75	sw.	1	0.4			1c s			0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.41	696.2	29.96	761.0	68	20.0	61	n.	16	7.2			10 ks		n.	0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.10	739.1	29.80	756.9	62	16.7	80	s.	2	0.9		2 ck	7 s	nw.	sw.	0.19	4.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.10	764.5	43	6.1	93	ne.	20	8.9			10 s		ne.	0.04	1.0	cloudy	N. B. Conger.
Eastport, Maine	29.92	760.0	29.98	761.5	55.0	12.8	80	calm	0	0		0	sk.			0	0	dense smoke	D. C. Murray.
Elliott, Fort, Texas	27.26	692.4	29.95	760.7	65	18.3	78	calm	0	0		5 c	0			0	0	fair	J. C. Rickli.
El Paso, Texas	26.37	669.8	30.02	762.5	60.0	15.6	78	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.29	744.0	30.00	762.0	56	13.3	69	s.	9	4.0		9 cs	0	w.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.29	744.0	29.95	760.7	47.0	8.3	100	n	31	13.9			10 n		n.	0.65	16.5	light rain	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	79	26.1	88	w.	3	1.3		5 cs	hz.	se.		0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.21	741.9	29.87	758.7	58.0	14.4	93	se.	8	3.6			10 s			0.34	8.6	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.30	642.6	29.90	759.4	63.9	17.7	52	ne.	5	2.2		0	0			0.01	0.3	clear	Chas. A. Read.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	68.0	20.0	66	ne.	20	8.9		3 c	hz.			0	0	clear	R. H. Crawford.
Helena, Montana	25.91	658.1	30.05	764.0	61	16.1	52	sw.	4	1.8		0	0			0	0	clear	T. H. Jones.

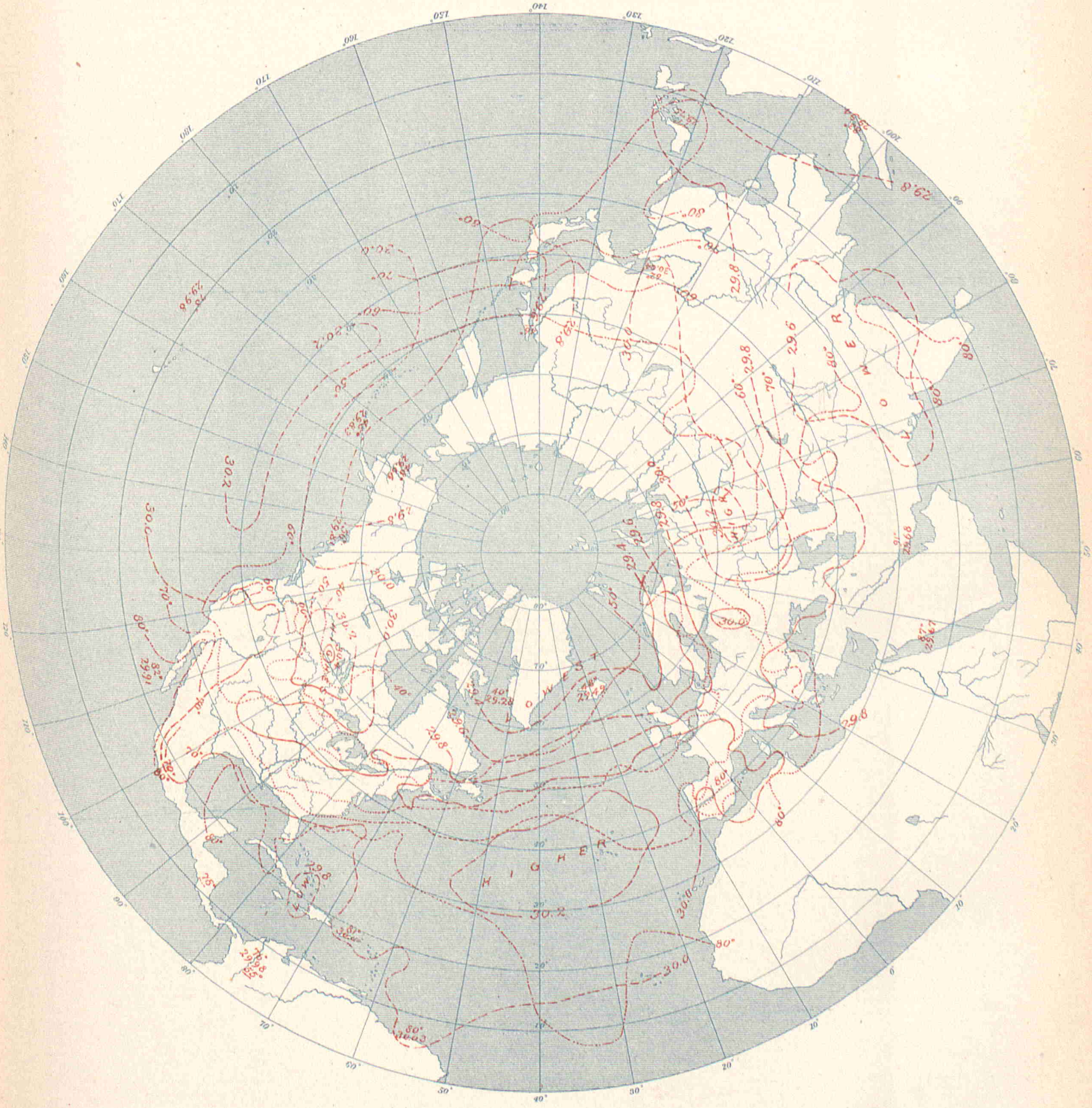
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.76	730.5	30.14	765.5	49.3	9.6	88	n.	16	7.2			10 s			0.07	1.8	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.21	741.9	29.99	761.7	57.3	14.1	69	s.	1	0.4		4 ck	6 s	w.		0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	77.2	25.1	96	s.	4	1.8		3 cs	4 ks	w.	s.	inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	29.98	761.5	30.02	762.5	73.0	22.8	94	n.	7	3.1			10 s		n	0.04	1.0	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.24	742.7	29.89	759.2	66.0	18.9	78	sw.	12	5.4			10 ks		sw.	1.11	28.2	threatening.	F. Z. Gosewisch.
Key West, Florida	29.88	758.9	29.90	759.4	82.0	27.8	80	calm	0	0		2 c	2k;ks	e.		0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.06	763.5	30.08	764.0	68	20.0	70	ne.	28	12.5		0	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.08	738.6	30.10	764.5	54.3	12.4	98	nw.	2	0.9		2 ck	fg.	sw.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.85	758.2	57	13.9	86	nw.	10	4.5			10 s		nw.	0.89	22.6	cloudy	S. C. Emery.
Leavenworth, Kansas	29.01	736.8	29.89	759.2	66.5	19.2	73	s.	4	1.8		2 cs	2 ks	sw.	sw.	0	0	fair	T. S. Outram.
Lewiston, Idaho	29.19	741.4	30.02	762.5	60.0	15.6	65	calm	0	0		0	sk.			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	61	16.1	84	calm	0	0		4 cs	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.54	750.3	29.93	760.2	60	15.6	75	ne.	2	0.9		2 cs	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.47	748.5	30.02	762.5	56	13.3	80	e.	2	0.9		0	sk.			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.38	746.2	30.06	763.5	57.5	14.2	80	calm	0	0		0	fg.			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.31	744.5	29.96	761.0	47.1	8.4	96	e.	32	14.3			10 n		e.	0.62	15.7	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.04	763.0	30.05	763.3	66.0	18.9	73	n.	16	7.2		0	0			inap.	inap.	clear	William Daly.
Maginnis, Fort, Montana	25.74	653.8	30.14	765.5	56	13.3	80	e.	8	3.6		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.35	745.5	30.07	763.8	41.0	5.0	92	ne.	18	8.0			10 n		ne.	0.72	18.3	light rain	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.03	762.7	63	17.2	84	nw.	1	0.4		4cs;hz	sk.			0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.08	738.6	29.82	757.4	61	16.1	87	sw.	7	3.1			10 n		sw.	0.54	13.7	thund'r st'm	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	70	21.1	73	n.	4	1.8		0	hz.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.84	757.9	30.07	763.8	68	20.0	90	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.20	741.7	30.19	766.8	43	6.1	83	ne.	12	5.4			10 s		n.	inap.	inap.	cloudy	H. Bessant.
Mt. Washington, N. H.	23.82	605.0	29.97	761.2	37.0	2.8	100	n.	34	15.2			fg.		n.	0.04	1.0	dense fog	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.05	763.3	54.0	12.2	93	e.	1	0.4		0	fg.			0	0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	29.93	760.2	30.04	763.0	52	11.1	86	sw.	2	0.9		0	fg.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.01	762.2	30.06	763.5	58	14.4	75	calm	0	0		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	78.0	25.6	75	se.	2	0.9		2 c	hz.			0	0	clear	M. Herman.
New York, New York	29.89	759.2	30.06	763.5	59	15.0	70	w	1	0.4		0	fg.			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.03	762.7	30.06	763.5	65.8	18.8	80	n.	4	1.8		hz.	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.22	691.4	30.10	764.5	56.6	13.7	86	n.	4	1.8		0	8 s			inap.	inap.	cloudy	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	57.0	13.9	80	sw.	5	2.2		0	0			0.03	0.8	clear	J. Dascomb.
Omaha, Nebraska	28.74	730.0	29.91	759.7	65.0	18.3	77	w	5	2.2		0	0			0.02	0.5	clear	A. Pollak.
Ooglaamie, Alaska																			P. H. Rey.
Oswego, New York	29.66	753.4	29.98	761.5	54.0	12.2	86	s.	5	2.2			10 s			0	0	cloudy	J. G. Linsley
Palestine, Texas	29.50	749.3	30.05	763.3	70.0	21.1	62	ne.	7	3.1		7ck;cs	0	se.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.99	761.7	30.02	762.5	75.1	23.9	82	ne.	5	2.2		0	1 k			0	0	clear	M. McGauran.
Philadelphia, Pa	29.97	761.2	30.07	763.8	59	15.0	81	s.	1	0.4		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.14	460.7	30.12	765.0	31	— 0.6	85	n.	13	5.8		0	0			0.06	1.5	clear	H. Hall.
Pittsburg, Pennsylvania	29.25	742.9	30.04	763.0	50.0	10.0	93	calm	0	0			fg.			0	0	dense fog	G. O. Schaeffer.
Poplar River, Montana					46	7.8	77	nw.			6		10 s			0	0	cloudy	M. J. Wright, jr.
Port Huron, Michigan	29.26	743.2	29.92	760.0	57.2	14.0	86	s.	1	0.4			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	29.94	760.5	29.98	761.5	57	13.9	69	nw.	0	2.7		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	50.0	13.7	92	calm	0	0		0	0			0.11	2.8	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.88	631.9	29.98	761.5	58.5	14.7	74	s.	2	0.9		0	0			0.02	0.5	clear	N. D. Lane.
Provincetown, Mass	30.00	762.0	30.03	762.7	59.5	15.3	75	w.	8	3.6		0	0			0	0	clear	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.61	752.1	29.96	761.0	62	10.7	60	n.	2	0.9		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGaun.
Roseburg, Oregon	29.58	751.3	30.13	765.3	59.7	15.4	77	ne.	1	0.4		0	9 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	29.88	758.9	29.95	760.7	60.5	15.8	80	se.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.43	747.5	30.02	762.5	64.0	17.8	76	s.	4	1.8			10s;sk		sw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.63	752.6	29.66	753.4	48	8.9	100	s.	14	6.3			10 n			0.22	5.6	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.13	739.9	29.98	761.5	48.5	9.2	77	n.	16	7.2			10 s		ne.	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.41	747.0	30.28	769.1	39	3.9	89	ne.	5	2.2		5 k	0	ne.		0.18	4.6	fair	C. B. Dilley
Salt Lake City, Utah	25.69	652.5	29.94	760.5	74	23.3	39	e.	24	10.7		4 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.83	757.7	29.90	759.4	64.5	18.1	87	nw.	3	1.3		0	3 s		nw.	0	0	clear	F. R. Day.
Sanford, Florida	29.90	759.4	29.95	760.7	70.2	24.6	90	ne.	8	3.6		0	0			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.32	744.7	29.98	761.5	57.5	14.2	74	sw.	11	4.9			10 s		sw.	0	0	threatening.	B. F. Heugh.
Sandy Hook, New Jersey	30.03	762.7	30.06	763.5	59.0	15.0	70	nw.	6	2.7		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	55.5	13.1	93	w.	10	4.5			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.98	761.5	30.07	763.8	66	18.9	92	n.	6	2.7			10 ks		n.	0.53	13.5	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.57	674.9	30.18	766.6	51	10.0	80	ne.	4	1.8		10 k	hz.			0	0	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	66.0	18.9	68	se	2	0.9		0	hz.			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.78	731.0	30.00	762.0	65	18.3	78	sw.	2	0.9		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.75	755.0	29.81	757.2	56.1	13.4	74	calm	0	0			10 ks			0	0	threatening.	F. W. Fickett.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	58.2	14.6	80	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.02	762.5	30.06	763.5	64.3	17.9	86	n.	8	3.6		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	30.01	762.2	61.6	16.4	54	sw.	6	2.7		0	sk.			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.32	744.7	29.98	761.5	63	17.2	81	s.	7	3.1			10 n		w.	0.03	0.8	light rain	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.06	687.3	30.02	762.5	65	18.3	90	s	3	1.3			10 s			0.02	0.5	cloudy	Louis Dorman.
Thomas, Camp, Arizona					66	18.9	47	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.28	743.7	29.96	761.0	60	15.6	70	sw.	7	3.1			10 s		sw.	0	0	threatening.	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskika, Alaska	29.81	757.2	29.83	757.7	45	7.2	76	nw.	4	1.8			10 s			0.15	3.8	cloudy	Samuel Applegate.
Verde, Fort, Arizona					69	20.6	45	w.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.79	756.7	30.04	763.0	65.8	18.8	71	e.	6	2.7		4 c	fg.	n.		0	0	fair	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.97	761.2	30.08	764.0	54.0	12.2	84	calm	0	0		0	fg.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.18	665.0	30.00	762.0	57.5	14.2	90	w.	4	1.8		0	1 s			0.05	1.3	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	65.0	18.3	90	n.	5	2.2		3 ck	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.71	729.2	30.00	762.0	72.1	22.3	50	n.	16	7.2			10 s		n.	inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.66	753.4	29.80	756.9	80.5	26.9	52	sw.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					79	26.1		nw.			1		1 k		n.	0.14	3.6	clear	W. H. Jackson.
Bogota, U. S. C.	22.05	560.0			54.5	12.5	09	w.	2	1		2 k	7s;ks	w.	nw.	0.079	2.0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.89	759.2	80.9	27.2	90	calm	0	0		10 cs	0	e.		0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	78	se.			2	3 c	0			0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	76	24.4	89	s.			1		10 ks		s.	0.50	14.2	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77.0	25.3	89	ne			1	1 cs		se.		0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Arctic Factory, B. A.	29.80	758.4	29.92	760.0	39.5	4.2	95	sw.	9	4.0		2 c	2 s	sw.	sw.	0	0	fair	Fortescue & Wilson.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 37° 33′, E. 22° 47′	29.69	754.1	83	28.3	71	wsw.			5		7	wsw.				sm'h		d. clouds.
H. M. S. Coquette, N. 39° 38′, E. 19° 56′	29.69	754.1	74	23.3		ssw.			1		8	wsw.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.07	763.8	79	26.1	78	sse.			3		7	sse.						d. clouds.
H. M. S. Flamingo, N. 48° 41′, W. 53° 07′	29.86	758.4	58	14.4	76	sw.			4		4	sw.				2	sw.	d. clouds.
H. M. S. Iris, N. 31° 20′, E. 32° 30′	29.71	754.6	83	28.3	87	nnw.			3		0					3	nnw.	blue sky.
H. M. S. Tenedos, St. Johns, N. F.	29.94	760.5	56	13.3	81	sw.			3		1							blue sky.
U. S. Navy Yard, Portsmouth, N. H*	29.94	760.5	54	12.2	72	nw.	3	1.3			0			0	0			clear.
U. S. S. Alliance, N. 46° 30′, W. 59° 28′	29.95	760.7	56	13.3	87	wsw.			5		2			0	0			fair.
U. S. S Galena, New York, N. Y	30.08	764.0	61	16.1	71	w.			1		0					sm'h		clear.
U. S. S. Jamestown, N. 35° 46′, W. 8° 02′	29.93	760.2	72	22.2	100	ne.			5		0					mod.	ene.	hazy.
U. S. S. Kearsarge, N. 40° 00′, W. 33° 46′	30.35	770.9	75	23.9	81	ssw.			4		8		ssw.			sm'h		cloudy.
U. S. S. Lancaster, Port Mahon, Minorca, Spain	30.07	763.8	73	22.8	54	nne.			2		2		nne.			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass	29.98	761.5	59	15.0	100	w.			2		2		w.					clear.
U. S. S. Powhatan, New York, N. Y	30.06	763.5	63	17.2	83	n.			1		0							foggy.
U. S. S. Quinnebaug, N. 45° 15′ W. 8° 33′			64	17.8	73	ne			1		2		ne.			sm'h	n.	fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.09	764.3	59	15.0	100	ssw.			2		0			0	0	sm'h		clear.
U. S. S. Swatara, Madame Island, N. S	30.01	762.2	59	15.0	76	w.			2		0			0	0	sm'h		clear.
U. S. S. Vandalia, Father Point, Quebec, Canada	30.14	765.5	43	6.1	100	ne.			1		8							fair.
U. S. S. Yantic, N. 63° 45′, W. 55° 44′	29.28	743.7	40	4.4	91	e.			5		10					mod.	e.	drizzling.
S. S. British Crown, N. 44° 29′, W. 55° 47′†	30.10	764.5	61	16.1		wsw.			4		7		w.	4 h'r	4 h'r	sli't	w.	fine.
S. S. Lord Clive, N. 45° 16′, W. 48° 15′	30.18?	766.6?				sw.			2		4		wsw.	0	0	sm'h		fine.
S. S. Ohio, Liverpool, Eng†	29.79	756 7	59	15	76	w.			4		9		wsw.	2 h'r	2 h'r			overcast.
S. S. Circassian, N. 52° 27′, W. 54° 25′	29.63	752.6	45	7.2	76	wsw.			4		6		w.			2	sw.	d. clouds.
S. S. Grecian, N 52° 56′ W. 49° 41′	29.62	752.3	58	14.4	88	wsw.			4		9		wsw.	0	0	mod.	wsw.	fair.
S. S. Nova Scotian, St. Johns, N. F	29.94	760.5	64	17.8		sw.			3		0					sli't		clear.
S. S. Polynesian, Moville, Ireland	29.72	754.9	58	14.4		w.			6		7		wnw.	sh'rs	sh'rs			cloudy.
S. S. Prussian, Boston, Mass	30.06	763.5	64	17.8		nnw.			1		0			0	0			
S. S. Scandinavian, N. 50° 26′, W. 37° 37′	30.04	763 0	57	13.9		sw.			3		7 k		wsw.	2 h'r	2 h'r	con.	var.	d. clouds.
S. S. Alvo, off Plum Point, Jamaica, W. I *	29.86	758.4	80	26.7		ssw.			4		6		s.	0	0			fine.
S. S. Andes, N. 31° 00′, W. 78° 30′			80	26.7		nne.			3		5?		nne.	0	0	mod.	nne.	clear?
S. S. Avilla. Mayagues, Porto Rico, W. I*†	30.04	763.0	80	26.7		calm			0		4			0	0			
S. S. Australia, N. 36° 14′, W. 6° 49′ *†	29.90	759.4	70	21.1		se.			2		5		nne.	0	0			fine.
S. S. Dorian, N. 38° 56′ W. 9° 35′	30.01	762.2	60	15.6		n.			3		0			0	0	mod.	n.	hazy.
S. S. Furnessia, New York, N. Y†	30.09	764.3	65	18.3	94	wnw.			1		0			0	0			clear.
S. S. Landaff City, N. 44° 08′, W. 45° 54′†	30.11	764.8	67	19.4		nne.			3		3			0	0	sm'h		clear.
S. S. Gallia, N. 41° 36′, W. 59° 14′	30.03	762.7	72	22.2	67	calm			0		8		wnw.	0	0	sm'h		fair.
S. S. Pavonia, N. 45° 16′, W. 42° 11′*	30.08	764.0	69	20.6	95	wsw.			4		10			5 h'r	5 h'r	mod.	wnw.	showery.
S. S. Scythia, N. 51° 13′, W. 11° 05′	30.06	763.5	61	16.1	82	wsw.			4		10?		w.	0	0	h'vy	wnw.	clear?
S. S. Samaria, N. 43° 48′ W. 53° 15′			63	17.2		calm			0		4		sw	2 h'r	2 h'r	sm'h	n.	fair.
S. S. Canada, N. 48° 20′, W. 39° 22′	30.17	766.3	66.2	19		wnw.			4		10		nnw.	0	c	r'gh	wsw.	covered.
S. S. Ville de Bordeaux, N. 44° 52′, W. 8° 00′*†	30.20?	767.1?	65	18.3		ne.			3		fg.			10 h'r	10 h'r	long	nne.	clearing.
S. S. Wisconsin. N 44° 40′, W. 54° 20′			62	16.7		wsw.			2		4		w.	0	0	sli't	wsw.	fair.
S. S. Bohemia, N. 43° 50′, W. 54° 53′†	30.14	765.5				wsw.			3-5		5?		sw.	0	0	long	w.	cloudy?
S. S. Gellert, New York, N. Y	30.06	763.5	54	12.2	80	w.			1		1		s.	1 h'r	1 h'r			clear.
S. S. Silesia, N. 47° 14, W. 38° 00′	30.22?	767.6?	64	17.8		ssw.			3		8		ssw.	6 h'r	6 h'r	mod.	nw.	cloudy
S. S. Westphalia, N. 46° 52′, W. 48° 28′	29.99?	761.7?	55	12.8	87	sw.			2		2		w.			sm'h	nw.	misty.
S. S. Rhaetia, N. 49° 58′, W. 6° 30′			57.5	14.2		wnw.			6		6?		wnw.	0	0	long	w.	covered?
S. S. Bulgarian, N. 43° 33′, W. 54° 21′ *	30.19	766.8				s.			1		3		sw.	0	0	light	sw.	clear.
S. S. Virginian, N. 48° 26′, W. 29° 12′ *	30.16	766.1	61	16.1		n.			3		10		nne.	1 h'r	1 h'r	long	nnw.	overcast.
S. S. Rosse, N. 41° 31′, W. 47° 04′*	30.23	767.8	81?	27.2?		wsw.			3		2		w.	1 h'r	1 h'r	sm'h		clear.
S. S. Rio Grande, N. 33° 50′, W. 77° 00′ †	30.03	762.7	78	25.6		nne.			3		7		e.	0	0	small	e.	fair.
S. S. Chalmette, N. 26° 18′, W. 85° 45′†	29.95	761.5	82	27.8		n.			4		3		n.	0	0	sm'h		clear.
S. S. New York, N. 34° 24′ W. 76° 15′*†	30.06	763.5	72	22.2		ne.			5		3		ne.	0	0	mod		clear.
S. S. Alleghany. Norfolk, Va†	30.11	764 8	68	20.0		ne.			2		0			0	0			clear.
S. S. Archimede, Palermo. Sicily			70	21.1		wnw.			4		5?		wnw.	3 h'r	3 h'r			cloudy?
S. S. City of Merida, N. 40° 44′, W. 74° 01′*†	30.18?	766.6?	62	16.7		nw.			1		5		nw.	0	0	mod.	sw.	fine.
S. S. City of Washington, N 37° 59′, W. 74° 27′ *†	30.10	764.5	70	21.1		ne.			2		5		ne	0	0	sm'h		fine.
S. S. Canada, N. 47° 32′, W. 25° 30′†	30.35?	770.9?	65	18.3		wsw.			4		fg.			shr's	shr's	long	nw.	dense fog.
S. S. Denmark, N. 50° 05′, W. 4° 30′†	30.09	764.3	62	16.7		wsw.			5		5		w.	0	0	mod.	w.	fair.
S. S. Egypt, N. 51° 19′ W. 15° 40′	30.00	762.0	51	10.6		sw.			5		10		nw.	3 h'r	3 h'r	h'vy	nw.	hazy.
S. S. England, N. 42° 34′, W. 53° 58′	30.12	765.0				s.			2		10		s.	0	0	sm'h		overcast.
S. S. America, N 37° 40′, W. 75° 00′ *	30.11	764.8	69.5	20.8	97	n.			3		2		n.	0	0	mod.	n.	clear.
S. S. Donau, N. 40° 32′, W. 69° 11′	30.09	764.3				calm			0		2		nw.	0	0	sm'h		clear.
S. S. Elbe, off Beachy Head, Eng	29.97?	761.3?	63.5	17.5	75	w.			4		10		w.	0	0	sm'h	w.	covered.
S. S. Fulda, N. 42° 52′, W 58° 24′	30.11	764.7	60.8	16.0	63	n.			1		7			0	0	sm'h	ne.	fair.
S. S. Gen. Werder, N. 48° 07′, W 46° 46′	30.05	763.3				ssw.			3-4					2 h'r	2 h'r	mod.	ssw.	hazy.
S. S. Neckar, N. 44° 31′, W. 50° 07′	30.18	766.6	61.0	16.1	77	wsw.			1-2		3		w.			sm'h	w.	clear.
S. S. Oder, N. 50° 09′, W. 19° 02′	29.95	760.7	60.8	16.0		w.			5		9		w.	3 h'r	3 h'r	cross	var.	cloudy.
S. S. Ohio, Windmill Point, Va	30.08	764.0				sw.			2		3		sw.	0	0			clear.
S. S. Salier, N. 48° 30′, W. 40° —′*	30.04	763.0	59.0	15.0	100	sw.			2		6		sw.	0	0	high	nw.	foggy.
S. S. Strassburg, N. 47° 29′, W. 42° 08′	30.07	763.8	58.0	14.4	100	sw.			2		10		sw.	4 h'r	4 h'r	2	var.	overcast.
S. S. Werra, N. 49° 56′, W. 7° 12′	30.08	764.0	55.4	13.0		wnw.			4-5		7?		w.	0	0	mod.	w.	covered.?
S. S. City of Augusta, Savannah, Ga†	30.08	764.0				nne.			2		10		nne.	0	0			clear ?
S. S. Muriel, St. Thomas, W. I	29.94?	760.5?	84	28.9		e.			3		2			light	light	sm'h		hazy.
S. S. Orinoco, New York, N. Y*†	30.10	764.5	68	20.0		calm			0		0			0	0			hazy.
S. S. Belgenland, N. 46° 47′, W. 40° 22′†	30.17?	766.3?	66	18.9	84	s.			4		10			5 h'r	5 h'r	long	n.	misty.
S. S. Nederland, N. 50° 51′, W. 25° 39′			60	15.6	60	nw.			6		10		nnw.	4 h'r	4 h'r	high	w	cloudy.
S. S. Rhynland, Antwerpt, Belgium	29.83	757.7	58	14.4	94	sw.			3		2		ssw.	0	0			clear.
S. S. Pennland, Antwerp, Belgium	29.92?	760.0?	58	14.4	88	sw.			3		8		sw.	4 h'r	4 h'r			cloudy
S. S. Vaderland, Antwerpt, Belgium			62	16.7		wsw.			2		2		nw.	0	0			clear.
S. S. Waesland, New York, N. Y	30.12	765.0	61	16.1		n.			2		0			0	0			clear.
S. S. Zeeland, Wolf Rock, Eng*†	30.02	762.5	56	13.3		wsw			4				wsw.	0	0	long	nw.	overcast.
S. S. P. Caland, N. 49° 52′, W 27° 32′	30.07	763.8	60.1	15.6	88	w.			3		8		w.			4	w.	cloudy.
S. S. W. A Scholten, N. 49° 35′ W. 26° 10′	30.18?	766.6?	55.4	13.0	100	wsw.			4		10		w.	2 h'r	2 h'r	4	w.	foggy.
S. S Belize, N. 21° 46, W. 74° 14′			84	28.9		se.			7		10		se.	14 h'r	14 h'r	h'vy	se.	heavy rain.
S. S. Valencia, Curacoa, W. I†	29.91	759.7	86	30.0	76	ne.			3		1		ene.	0	0			clear.
S. S. Caracas, N. 33° 41′, W. 71° 19′ *†	30.01	762.2	74	23.3	95	ssw.			5		10		nw.	4 h'r	4 h'r	sharp	ssw.	heavy rain.
S. S. State of Nevada, N. 40° 37′, W. 67° 52′†	30.03	762.7	62	16.7		ene.			2		8		ene.	0	0	sm'h		cloudy.
S. S. State of Alabama, N. 43° 38′, W. 42° 20′*	30.17	766.3	75	23 9		nnw.			3		5		w.	3 h'r	3 h'r	mod.	nw.	fair.
S. S. Thingvalla, Copenhagen, Denmark†	29.74	755.4				sw.			3		10		sw.	6 h'r	6 h'r			covered.
S. S. Romano, Hull, Eng *†	29.98	761.5				wnw.			7		4		w.	0	0	sm'h		fair.
S. S. Salerno, New York, N. Y *†	30.19?	766.8?	63	17.2														
S. S. Oregon, N. 55° 05′, W. 5° 49′	29.66	753.4	54	12.2		w.			7		6		w.					fair.
S. S. Lake Manitoba, N. 55° 04′, W. 5° 47′	29.65	753.1	56	13.3		wsw.			6		6		wsw.	3 h'r	3 h'r	h'vy	wsw.	squally.
S. S. Daniel Steinmann, N. 46° 11′, W. 47° 43′ *†	30.08	764.0	58	14.4		sw.			1		0			0	0	sm'h		clear.
S. S. Plantyn, N. 49° 47′, W. 6° 44′	30.01	762.2							4		4		wsw.	0	0	h'vy	w	fair.
S. S. Saxon, N. 39° 05′, W. 75° 13′ †	30.07	763.8	62	16.7		nnw.			1		0			0	0	sm'h		fine.
S. S. Celtic, N. 51° 10′, W. 14° 52′†	29.93?	760.2?	55	12.8	?	sw.			5		10		s.	0	0	mod.	w.	overcast.
S. S. Iowa, N. 50° 19′, W. 26° 44′†	30.01	762.2	58	14.4		w.			5		10		w.	8 h'r	8 h'r	mod.	nw.	cloudy.
S. S. Algiers, N. 33° 22′, W. 77° 03′*†	30.07	763.8				ne.			5								sw.	rainy.
S. S. City of Alexandria, Progresso Roads, C. A*†	29.99	761.7	83	28.3		ese.			2									d. clouds.
Schr. Arthur Burton, 39° 40′, W. 72° 40′†	30.07	763.8				n.			3		0			0	0	sm'h		clear.
Sch. Abbie Gheen, Philadelphia, Pa†	30.08	764.0	64	17.8		calm			0									clear.
S. S. Antonio Lopez, N. 20° 59′, W. 74° 34′	29.75	755.6	77	25.0	95	sw.			7		10		ssw.	8 h'r	8 h'r	r'gh	sw.	light rain.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Aquidneck, N. 33° 10′, W. 71° 04′*†	30.00	762.0	80	26.7	.....	s.	.....	.....	3	.....	.....	.....	w.	20 h'r	20 h'r	light	s.	rainy.
Bg. Alcira, N. 33° 07′, W. 74° 01′	29.99	761.7	80	26.7	.....	sse.	.....	.....	1	.....	10	.....	sse.	18 h'r	18 h'r	mod.	sse.	cloudy.
Bgt. Achsah, N. 17° 38′, W. 59° 35′†	29.97	761.2	84	28.9	.....	ene.	.....	.....	4	.....	3	.....	ene.	0	0	mod.	ene	clear.
Bk. Aureola, N. 23° 30′, W. 20° 00′†	30.08	764.0	80	26.7	.....	ene.	.....	.....	5	.....	5	.....	ene.	2 h'r	2 h'r	h'vy	ne.	fair.
Bk. Adelaide, N. 32° 26′, W. 52° 14′†*	30.34?	770.6?	.....	.....	.....	ese.	.....	.....	3	.....	1	.....	sse.	0	0	sm'h	nnw.	clear.
Bg. Belle of the Bay, N. 33° 54′, W. 72° 49′†	29.97	761.2	.....	.....	.....	s	.....	.....	1	.....	10	.....	se.	.....	.....	long	se.	raining.
S. S. Burswell, N. 43° 48′, W. 35° 38′*†	30.22	767.6	74	23.3	.....	s.	.....	.....	1	.....	fg.	.....	.....	0	0	str'g	nnw.	dense fog.
S. S. Cannonbury, N. 10° 36′, W. 55° 36′*†	30.02	762.5	.....	.....	.....	n.	.....	.....	1	.....	8	.....	ne.	4 h'r	4 h'r	light	ne.	cloudy.
Bk. Celestina, N. 38° 48′, E. 8° 40′*†	30.05?	763.3?	.....	.....	.....	nw.	.....	.....	5	.....	0	.....	.....	0	0	h'vy	nw.	clear.
Bk. Childwall, N. 43° 02′, W. 12° 43′*	30.09	764.3	68	20.0	90	nw.	.....	.....	3	.....	10	.....	wnw.	.....	.....	mod.	nw.	dense fog.
Schr. C. R. Flint, Sandy Hook, N. J†	30.09	764.3	70	21.1	.....	wnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	smoky.
Bk. Cato, N. 40° 25′, W. 10° 51′†	30.12	765.0	.....	.....	.....	nnw.	.....	.....	6	.....	3?	.....	ne.	.....	.....	long	nne.	cloudy?
Bk. Don Justo, N. 59° 03′, —. 0° 00′	.....	.....	.....	.....	.....	w.	.....	.....	1	.....	2	.....	w.	½ h'r	½ hr	small	sw.	clear.
Bg. Daphne, N. 37° 08′, W. 65° 56′*†	30.15?	765.8?	80	26.7	.....	sw.	.....	.....	3	.....	5	.....	sw.	1 h'r	1 h'r	mod.	sw.	fair.
S. S. State of Nebraska, N. 54° 00′, W. 25° 58′*†	29.84	757.9	56	13.3	.....	nw.	.....	.....	6	.....	3	.....	nw.	6 h'r	6 h'r	mod.	nw.	clear.
S. S. D J. Foley, Kingston, Jamaica, W. I*†	29.85	758.2	85	29.4	78	ene.	.....	.....	3	.....	4	.....	e.	0	0	.....	.....	fair.
Bkt. David A. Preston, N. 45° 22′, W. 64° 40′	.....	.....	.....	.....	.....	w.	.....	.....	6	.....	2	.....	w.	0	0	sm'b	.....	
S. Dora, N. 46° 42′, W. 37° 50′*†	30.20?	767.1?	62.6	17.0	.....	ssw.	.....	.....	5	.....	7	.....	ssw.	8 h'r	8 h'r	mod.	w.	fair.
S. David Stewart, N. 9° 51′, W. 45° 19′	.....	.....	88	31.1	.....	var.	.....	.....	1	.....	5	.....	ene.	4 h'r	4 h'r	mod.	ene.	
S. E. J. Spicer, Antwerp, Belgium	29.93?	760.2?	62	16.7	82	wsw.	.....	.....	5	.....	7	.....	w.	sh'rs	sh'rs	.....	.....	fair.
Schr. Edith R. Seward, Loboy Island, Ga†	29.91?	759.7?	72	22.2	.....	n.	.....	.....	2	.....	0?	.....	.....	½ h'r	½ h'r	.....	.....	drizzling. ?
Bk. E. D. Bigelow, N. 28° 28′, W. 92° 00′ †	30.02	762.5	89?	31.7?	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Edmund Phinney, N. 14° —′, W. 47° 27′†	30.02	762.5	.....	.....	.....	e.	.....	.....	4	.....	10	.....	.....	15 h'r	15 h'r	mod.	e.	light rain.
Bk. E. L. Pettingill, N. 10° 30′, W. 32° 56′*†	30.05?	763.3?	79	26.1	.....	var.	.....	.....	.....	.....	.....	.....	nw.	sh'rs	sh'rs	sm'h	se.	light rain.
S. Festina Lente, Traverse Islands, Canada	30.02	762.5	46	7.8	.....	ne.	.....	.....	3	.....	9	.....	ne.	10 h'r	10 h'r	.....	.....	clearing.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.06	763.5	62	16.7	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. George, N. 26° 20′, W. 61° 50′*†	30.10	764.5	81	27.2	.....	ese.	.....	.....	4	.....	2	.....	se.	0	0	mod.	se.	fair.
Bk. Galeon, N. 48° 08′, W. 8° 19′†	30.13	765.3	62	16.7	.....	w.	.....	.....	2	.....	9	.....	wsw.	0	0	.....	nw.	
Bk. Grey Eagle, N. 30° 02′, W. 52° 40*†	30.10?	764.5?	.....	.....	.....	ese.	.....	.....	2	.....	1	.....	ene.	½ h'r	½ h'r	sm'h	sse.	clear.
Bg. Giles Loring, N. 25° 46′ W. 77° 04′*†	30.05?	763.3?	87	30.6	84	var.	.....	.....	3	.....	5	.....	e.	0	0	.....	.....	fine.
S. Hedwig, N. 37° 18′, W. 0° 22′	30.08	764.1	78.3	25 7	71	ese.	.....	.....	3	.....	2	.....	se.	0	0	1	e.	fine.
Schr. Isabel Alberto, N 25° 00′, W. 78° 46′†	29.87	758.7	.....	.....	.....	e.	.....	.....	1	.....	2	.....	e.	light	light	.....	.....	clear.
Bkt. Josephine, N. 33° 14′ W. 71° 53′†	29.96	761.0	79	26.1	78	wnw.	.....	.....	4	.....	10	.....	.....	12 h'r	12 h'r	mod.	wnw.	drizzling.
Bk. Johanne, N. 57° 29′, E. 2° 47′*†	29.55	750.6	59	15.0	.....	wsw.	.....	.....	4	.....	8	.....	w.	6 h'r	6 h'r	mod.	wnw.	hazy.
Schr. John L. Thomas, N. 16° 00′, W. 83° 38′*†	29.90	759.4	84	28.9	91	nnw.	.....	.....	2	.....	4	.....	ene.	0	0	.....	.....	threatening
Schr. Jennie N. Huddell, East Cambridge, Mass†	30.05	763.3	62	16.7	88	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Josefa, Bristol, Eng†	29.98	761.5	.....	.....	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	.....	.....	fair.
Bkt. Kryolith, Ivigtut, Greenland*†	29.28	743.7	.....	.....	.....	calm	.....	.....	0	.....	8	.....	ese.	.....	.....	.....	.....	cloudy.
Bk. Lady Hincks, N. 40° 16′, W. 21° 24′ *†	30.30	769.6	.....	.....	.....	.....	.....	.....	3	.....	5	.....	.....	0	0	.....	.....	
Bg. L. & W. Armstrong, St. Pierre Martinique, W.I*†	29.92	760.0	.....	.....	.....	ene.	.....	.....	1	.....	3	.....	e.	½ hr	½ hr	sm'h	wsw.	light rain.
S. S. Madrid, N. 37° 25′ E. 18° 00′ †	29.76	755.9	76	24.4	73	w.	.....	.....	0	.....	2	.....	w.	0	0	mod.	w.	fair.
Bk. Mohican, N. 6- 00′, W. 30° 50	29.81?	757.2?	80	26.7	.....	s.	.....	.....	6	.....	6	.....	s.	6 h'r	6 h'r	sm'h	se.	fair.
Schr. Norena, N. 28° 26′, W. 66° 46′*†	30.05	763.3	.....	.....	.....	ese.	.....	.....	4	.....	0	.....	.....	0	0	light	se.	fine.
Bk. Orpheus, N. 58° 07′, W. 20° 44′	29.66	753.4	52	11.1	.....	s.	.....	.....	7	.....	10	.....	.....	0	0	mod.	s.	cloudy.
Bk. Ottawa, N. 41° 40′, W. 66° 30′	29.98	761.5	69	20.6	.....	ese.	.....	.....	3	.....	6	.....	wnw.	0	0	sm'h	.....	fair.
Schr. Rollin Sanford, N. 25° 40′, W. 82° 10′ †	29.93	760.2	.....	.....	.....	nnw.	.....	.....	1	.....	5	.....	nw.	0	0	sm'h	nw.	squally.
Bg. Rising Sun, San Juan, Porto Rico, W. I†	29.94	760.5	82	27.8	.....	se.	.....	.....	1	.....	5	.....	se.	0	0	.....	.....	fair.
Bgt. Sunlight, Demerara, British Guiana*†	29.93	760.2	.....	.....	.....	e.	.....	.....	2	.....	5	.....	se	0	0	.....	.....	fair.
Bk. Scud, N. 32° 30′, W. 70° 20′*†	30.02	762.5	83	28.3	.....	s.	.....	.....	5	.....	9	.....	s.	2 h'r	2 h'r	mod.	s.	overcast.
Bk. Southern Belle, N. 30° 06′, W. 3° 48′†	30.04	763.0	68	20.0	.....	e.	.....	.....	4	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Tuck Sing, N. 21° 01′, W. 80° 55′*†	29.90	759.4	.....	.....	.....	ene.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Tower Hill, N. 49° 32′, W. 10° 35′ *†	30.18?	766.6?	.....	.....	.....	wsw.	.....	.....	2	.....	8	.....	w.	.....	.....	mod.	w.	misty.
Schr. Viola Reppard, N. 34° 45′, W. 75° 37′†	30.05	763 3	72	22.2	.....	ne.	.....	.....	4	.....	6	.....	ne.	0	0	small	ne.	fair.
Bgt. Willie, N. 10° 20′, W. 3- 0 10′*†	29.98	761.5	79	26.1	.....	nw.	.....	.....	2	.....	10	.....	calm	4 h'r	4 h'r	mod.	.....	raining.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	29.98	761.5	70	21.1	85	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Opal, Elephant Bay, Benguela	30.00	762.0	68	20.0	84	wsw.	.....	.....	2	.....	3	w.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Sylvia, Buenos Ayres, La Plata	29.96	761.0	54.5	12.5	87	nnw.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	29.98	761.5	51	10.6	93	nnw.	11	4.9	.....	.....	2	.....	nnw.	0	0	sm'h	.....	fair.
U. S. S. Nipsic, Montevideo, Uruguay*	29.95	760.7	53	11.7	86	nnw.	.....	.....	3	.....	2	.....	nnw.	.....	.....	sm'h	.....	fair.
S. S. Hevelius, S. 21° 00′, W. 39° 00′*†	30.25	768.3	76	24.4	.....	ne.	.....	.....	3	.....	3	.....	ene.	0	0	sm'h	.....	clear.
Bk. Great Surgeon, S. 15° 09′, W. 30° 12′*†	30.30	769.0	76	24.4	.....	ese.	.....	.....	4	.....	0	.....	se.	½ h'r	½ h'r	short	se.	fair.
S. Gatherer, S. 13° 50′, W. 34° —′*	29.99	761 7	77	25.0	69	ese.	.....	.....	4	.....	1	.....	e.	0	0	sm'h	ne.	clear.
Bk. Godeffroy, S. 45° 00′ W. 60° 45′	29.45	748.0	.....	.....	79	sw.	.....	.....	8	.....	6	.....	sw.	rain	rain	r'gh	sw.	squally.
Bkt. Louise Adelaide, S. 8° 50′, W. 32° 30′†	30.07	763.8	80	26.7	.....	se.	.....	.....	4	.....	6	.....	se.	0	0	long.	sse.	fair.
S. S. Olbers, S. 16° 29′, W. 38° 17′	30.17	766.3	75	23.9	86	e.	.....	.....	4	.....	8	.....	e.	4 h'r	4 h'r	mod.	e.	cloudy.
H. M. S. Boadicea, Simons Bay, Cape Colony	30.19	766.8	50	13.3	.....	ese.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Bg. John Wesley, Rio de Janeiro, Brazil*†	30.02	762.5	74	23.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.81	757.2	58	14.4	88	calm	.....	.....	.....	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.81	757.2	75	23.9	77	n.	.....	.....	2	.....	3	.....	.....	.....	.....	1	s.	misty.
H. M. S. Magpie, N. 5° 52′, E. 118° 11′	29.84	757.9	84.5	29.2	81	ese.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Mutine, N. 23° 08′, W. 113° 02′	29.91	759.7	82	27.8	.....	ese.	.....	.....	2	.....	2	.....	.....	.....	.....	5	se.	blue sky.
H. P. M. S. Pamega, Macao, China	29.81	757.1	85.1	29.5	89	s.	.....	.....	2	.....	1	.....	.....	½ h'r	½ h'r	.....	.....	blue sky
U. S. Naval Hospital, Yokohama, Japan	29.91?	759.7?	78	25.6	78	sw.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Essex, N. 34° 40′, E. 125° 10′	29.90	759.4	76	24.4	91	nnw.	.....	.....	3	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
U. S. S. Monocacy, Roze Island, Corea	29.82	757.4	75	23.9	86	nw.	.....	.....	2	.....	2	.....	calm	.....	.....	sm'h	.....	fair.
U. S. S. Palos, Hong Kong, China	29.79	756.7	83	28.3	83	e	.....	.....	1	.....	10	.....	e.	.....	.....	.....	.....	cloudy.
U. S. S. Pensacola, N. 19° 51′, W. 166° 47′*	29.98	761.5	78	25.6	82	ene.	.....	.....	5	.....	5	.....	ene.	light	light	light	e.	fair.
U. S. S. Richmond, Yokohama, Japan	29.82	757.4	80	26.7	78	ssw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Coptic, Yokohama, Japan	29.91	759.7	80.5	26.9	87	var.	.....	.....	2	.....	2	.....	sw.	0	0	.....	.....	clear.
S. S. Oceanic, N. 46° 34′ E. 179° 04′	30.21	767.3	52	11.1	100	ne.	.....	.....	4	.....	9	.....	ne.	0	0	.....	ne.	d clouds
S. S. Columbia, N. 38° 31′. W. 123° 50′†	30.03	762.7	54	12.2	100	nnw.	.....	.....	5	.....	10	.....	nnw.	.....	.....	mod	w.	dense fog.
S. S Oregon, Columbia River, Oregon†	30.17	766.3	57	13.9	94	calm	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	foggy.
S. S. Ancon, N. 33° 48′, W. 118° 36′ †	29.90	759.4	66	18.9	89	e.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'b	.....	fair.
S. S. State of California, N. 40° 40′, W. 124° 30′†	30.13	765.3	55	12.8	100	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	nw.	clear.
S. S. Queen of the Pacific, Columbia River, Oregan†	30.15	765.8	57	13.9	94	calm	.....	.....	0	.....	2	.....	rain	rain	.....	.....	.....	foggy.
S. S. Victoria, N. 41° 45′, W. 124° 41′†	30.16	766.0	50	10.0	94	nnw.	.....	.....	5	.....	2	.....	nw.	.....	.....	mod.	nw.	fair.
S. S. City of Pekin, N. 42° 20′, W. 134° 35′†.	30.20	767.1	62	16.7	100	wsw.	.....	.....	5	.....	10	.....	w.	0	0	mod.	w.	squally.
S. S. City of Tokio, Yokohama, Japan†	29.91	759.7	80	26.7	91	wsw.	.....	.....	4	.....	4	.....	ssw.	0	0	.....	.....	fine.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.84	757.9	82	27.8	83	e.	.....	.....	1	.....	7	.....	ne.	.....	.....	sm'h	.....	cloudy.
S. S. Colima, Champerico, Mexico†	29.91	759.7	70	24.4	91	nne.	.....	.....	1	.....	8	.....	ene.	0	0	mod.	ene.	cloudy.
S. S. Granada, Mazatlan, Mexico†	29.96	761.0	80	26.7	91	calm	.....	.....	0	.....	4	.....	se.	0	0	light	s.	clear.
S. S. Armenia, N. 35° 12′, W. 123° 35′*	30.02	762.5	63	17.2	94	n.	.....	.....	4	.....	9	.....	n.	0	0	sm'h	n.	hazy.
S. S. Benledi, N. 1° 45′, E. 103° 00 *	29.94	760.5	82.5	28.1	77	ssw.	.....	.....	1-2	.....	10	.....	.....	6 h'r	6 h'r	sm'h	.....	overcast.
S. S. Mt. Washington, N 44° 40′, W. 128° 28′*†	30.15	765.8	63	17.2	83	sw.	.....	.....	4	.....	7	.....	w.	0	0	h'vy	w.	cloudy.
S. S. St. David, N. 41° 37′, E. 161° 43′ *†	29.95	760.7	70	21.1	90	calm	.....	.....	0	.....	10	.....	sw.	0	0	cf'd	var.	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.92	760.0	84.3	29.1	89	calm	.....	.....	0	.....	7	.....	.....	.....	.....	sm'h	.....	d. clouds.
U. S. S. Hartford, Callao Bay, Peru *	29.96	761 0	61	16.1	94	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	60	15.6	94	calm	.....	.....	0	.....	8	.....	.....	.....	.....	.....	.....	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Lackawanna, Callao, Peru *	29.95	760.7	60	15.6	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward. Callao, Peru*†	30.12	765.0	59	15.0	94	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.20	767.1	59	15.0	94	sse.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	30.06	763.5	54	12.2	49	sw.	.....	.....	2	2 c	0	sw.	.....	.....	.....	.....	.....	clear
S. S. Zealandia, S 33° 40′, E. 155° 00′	30.08	764.0	60	15.6	88	w.	.....	.....	3	.....	0	.....	.....	.....	.....	h'vy	sw.	clear.
Bk. Chas. Stewart, S. 10° 45′. W. 80° 00′†	29.99	761.7	60	15.6	.....	se.	.....	.....	7	.....	8	.....	ssw.	0	0	long	sw.	cloudy.
S. David Crocket, S. 23° 34′, W. 118° 34′*	30.02	762.5	67.5	19.7	86	s.	.....	.....	3	.....	9	.....	s.	2 h'r	2 h'r	long	ssw.	drizzling
S. Sovereign of the Seas, S. 46° 14′, W. 85° 03′*†	30.50	774.7	46	7.8	73	sw.	.....	.....	4	.....	5	.....	wsw.	2 h'r	2 h'r	long	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 15° 14′, E. 50° 30′	30.10	764.5	.....	.....	.....	sse.	.....	.....	2	.....	7	ese.	.....	.....	.....	3	ene.	d. clouds.
H. M. S. Euryalus, S. 10° 05′, E. 45° 03′	29.98	761.5	78	25.6	82	e.	.....	.....	4	.....	4	calm	.....	.....	.....	2	e.	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.98	761.5	78	25.6	91	var.	.....	.....	1	.....	2	ene.	.....	.....	.....	1	ene.	showery.
H. M. S. Woodlark, Bushir, Persia	29.68	753.9	90.5	32.5	77	wnw.	.....	.....	4	.....	0	.....	.....	.....	.....	3	nnw.	misty.
U. S. S. Juniata, S. 5° 53′, E. 106° 20′	29.94	760.5	83	28.3	96	ssw.	.....	.....	1	.....	2	.....	calm	0	0	.....	.....	hazy.
S. S. Galatia, S. 23° 14′ E. 37° 22′†	29.67	753.6	87	30.6	84	nne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Pilgrim, S. 23° 35′, E. 58° 45′*†	30.25	768.3	.....	.....	.....	ese.	.....	.....	5	.....	5	.....	ese.	1 h'r	1 h'r	mod.	se.	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 8, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.4	78.1	25.6	76	s.			1		0			0	0	clear	Roziere.
Algiers			30.07	763.7	76.3	24.6	60	ne.			6		0			0	0	clear	Thève.
La Galle			30.06	763.4	78.8	26.0	30	wnw.			4		3			0	0	pretty fair	Fonfrède.
Tunis			29.99	761.8	78.4	25.8	41	nnw.			3		2			0	0	fair	Delord.
Saida			30.06	763.6															Pérès.
Tebessa			30.04	763.0	73.4	23.0	52	w.			2		0			0	0	clear	St. Martin.
Geriville					78.8	26.0	8	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.03	762.8	76.6	24.8	27	e.			2		0			0	0	clear	Abraham.
Biskra			30.01	762.3	88.2	31.2	27	e.			1		0			0	0	clear	Gonzon.
Australian.																			
Adelaide, South Australia			30.20	767.1	50.0	10.0	80	nnw.	8	3.6			9 k			0.044	1.1	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.06	763.5	30.15	765.8	45.9	7.7	87	sw.	3	1.3			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.34	745.2	29.87	758.8	64.9	18.3	61	se.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.1	29.90	759.5	55.0	12.8	80	n.	6.3	2.8			10			0.441	11.2		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.28	718.2	29.66	753.4	65.7	18.7	87	ne.			2		10			0.287	7.3		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.1	29.98	761.5	61.3	16.3	53	wnw.			3		9			0	0	gloomy	The Staff.
Lemberg	28 82	731.9	29.76	755.9	69.3	20.7	78	e.			2		6			0.354	9.0		Dr. T. Stanecki.
Pola	29 78	756.5	29.89	759.2	74.8	23.8	59	sw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.20	741.6	29.65	753.0	62.2	16.8	92	e.			4		9			0.488	12.4		Joseph Midlinszky, S. J
Szegedin	29.41	746.9	29.68	753.8	62.8	17.1	93	calm			0		10			0	0		Karl Stu cel.
Trieste	29.83	757.7	29.93	760.2	73.0	22.8	53	sw.			1		1			0	0		Royal Academy.
Vienna	29.25	742.9	29.95	760.7	63.5	17.5	43	nw.			3		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.67	753.6	29.77	756.1	57.0	13.9	58	wnw.	21	9.4			5			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.79	756.7	30.02	762.5	56.8	13.8	72	nw.	8	3.6			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.93	760.2	57.2	14.0	69	wnw.	32	14.3			4					d. clouds	John Hartnup.
Bolton, Sharples	29.38	746.2	29.91	759.7	57.5	14.2	71	nnw.	6	2.7			4					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.48	748.8	29.88	758.9	58.5	14.7	83	nw.			3		5			0.01	0.3	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	75	se.			1		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.80	756.9	29.90	759.4	64.8	18.2	64	nw.			1.0		7					d. clouds	John McLaren.
Chatham, School M. E.	29.70	754.4	29.87	758.7	60.6	15.9	85	nw.			1		9			blank	blank	gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.82	757.4	30.04	763.0	60.2	15.7	82	nnw.			4		7					d. clouds	The Staff.
Fort Napier, Natal	27.40	695.9	29.62	752.3	65.0	18.3	inap.	n.			4		2					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.97	761.2	30.00	762.0	61	16.1	71	nw.			1		4			0.12	3.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	73.4	23.0	88	e.			5		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.67	753.6	29.87	758.7	56.5	13.6	66	w.			3		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.72	754.9	29.89	759.2	59.6	15.3	76	nnw.			4		8					d. clouds	The Staff.
Guernsey	29.70	754.4	29.99	761.7	60.0	15.6	94	wsw.			2		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.88	758.9	29.92	760.0	62.8	17.1	59	nnw.	15	6.7			6					d. clouds	The Staff.
Leicester, Museum	29.63	752.6	29.88	758.9	63.0	17.2	62	wnw.			3		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	79.0	26.1	55	nw.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.57	751.1	29.61	752.1	74.5	23.6	99	ne.			6		10			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.70	754.4	29.93	760.2	60.7	15.9	61	nw.			4		4					d. clouds	The Staff.
Plymouth	29.95	760.7	30.02	762.5	64.0	17.8	73	nw.			4		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.68	753.9	29.78	756.4	53.5	11.9	87						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.61	752.1	29.67	753.6	88.4	31.3	52	sw.			1		1					blue sky	W. H. Lyne.
Sheffield			29.80	756.9	53.7	12.1	77	ssw.			1					0	0		W. F. Cooper.
Silloth Rectory	29.86	758.4	29.89	759.2	59.3	15.2	71	wnw.			4		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.92	760.0	57.7	14.3	58	nw.	22	9.8			6					d. clouds	W. C. Carlisle.
Strathfield Turgiss					65.0	18.3	93	nw.			1.0		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.04	763.0	30.12	765.0	64	17.8	67	nw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.09	764.3	30.12	765.0	58.4	14.7	73	nw.	13	5.8			7			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.00	762.0	73.8	23.2	64	nw.	14.9	6.7			0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.19	766.8	30.22	767.6	48	8.9	85	calm	0	0		10 c	0	e.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.12	765.0	30.16	766.1	52	11.1	78	ne.	8	3.6			10 n		calm	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.13	765.3	30.19	766.8	49	9.4	80	se.	3	1.3			10 ks		se.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.63	752.6	29.82	757.4	49.2	9.6	95	e.			1		10 n			0.069	1.8	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.16	766.1	30.20	767.1	45.0	7.2		calm	0	0			10 s			0	0	overcast	H A. Johnson.
Edmonton, N. W. T	27.62	701.5			42	5.6	83	s	4	1.8		10 cs	0	w.		0	0	cloudy	Alex. Taylor.
Father Point, Quebec*	30.16	766.1	30.18	766.6	44	6.7	96	ne.	8	3.6			10 n		calm	0.10	2.5	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.61	752.1	30.49	774.4	28	— 2.2	77	ne.	1	0.4			10 n			0	0	misty	James Stewart.
Fredericton, N. B	30.10	764.5	30.16	766.1	51.0	10.6	73	e.	5.0	2.2			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B	30.05	763.3	30.10	764.5	53	11.7	86	e.	16	7.2			10 s		e.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.83	732.3	29.94	760 5	44.0	6.7	92	nw.	5	2.2		9 d	0	nw.		0.45	11.4	overcast	Jas. Grant.
Halifax, N. S*	30.01	762.2	30.14	765 5	57	13.9	90	e.	8	3.6		10 k	0	e.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.49	749.0	29.88	758.9	50.2	10.1	82	sw.			1	10 cs		sw.		0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.46	748.3	29.78	756.4	60	15.6	90	s.	12	5.4			10 n		s.	0.09	2.3	blue sky	A. P. Knight, M. A.
Little Glace Bay, N. S	30.03	762.7	30.06	763.5	60.0	15.6	88	sw.			4	0	0			0	0	d. clouds	C. H. Rigby.
London, Ontario	29.11	739.4	30.01	762.2	46.7	8.2	88	n.			3	0	6 s			0	0	d. clouds	E. B. Reed.
Medicine Hat	27.51	698 7	29.71	754.6	57	13.9	58	nw.	5	2.2		0	7 n			0	0	cloudy	John Ewart.
Montreal, Quebec*	29.67	753.6	30.88	758.9	47	8.3	100	e.	2	0.9			10 s			0.14	3.8	overcast	C. H. McLeod, C. E.
Ottawa, Ontario	29.56	750.8	29.80	756.9	46.7	8.2	97	ene.					10 s			0.038	1.0	cloudy	A. McGill, M. A.
Parry Sound, Ontario*	29.25	742.9	29.95	760.7	40	4.4	92	n.	17	7.6			10 n		n.	1.11	28.2	overcast	Rev. R. Mosley.
Peterboro, Ontario	29.12	739.6	29.85	758.2	49.7	9.8	92	nw.			2		10 n			0	0	cloudy	Wm. O'Connor, M.A.
Port Dover, Ontario	29.22	742.2	29.91	759.7	48	8.9	100	nw.	11	4.9		10 c		nw.		0.06	1.5	cloudy	H Morgan.
Port Stanley, Ontario	29.29	744.0	29.94	760.5	48	8.9	89	nw.	8	3.6			10 n		nw.	0.25	6.3	clear	M. Payne.
Que Appelle, N. W. T	27.92	709.2	30.26	768.6	33	0.6	96	se.	13	5.8		0	0			0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.65	753.1	30.01	762.2	45	7.2	100	ne.	16	7.2			10 n		e.	0.05	1.3	light rain	Capt. Asne, R. N.
Rockliffe, Ontario*	29.45	748.0	29.92	760.0	39	3.9	92	ne.	5	2.2			10 s		ne.	0.88	22.4	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.03	762.7	30.09	764.3	51	10.6	92	e;s.	5	2.2			10 n			0	0	fair	
St. John, N. B	29.98	761.5	30.12	765.0	54.3	12.4	95	e.	12	5.4		5 k	0	se.		0	0	clear	G. Hutchinson.
Saint John's, N. F	29.94	760.5	30.19	766.8	49	9.4	85	w.			2	0	0			0	0	light rain	The Commandant.
Saugeen, Ontario*	29.26	743.2	29.99	761.7	43	6.1	89	n.	31	13.9			10 s			0.97	24.6	d. clouds	G. J. Macgregor, M. A.
Stratford, Ontario	28.67	728.2	29.96	761.0	43.8	6.6	93	nw.	8.0	3.6			10 s			0.401	10.2		
St. Pierre, N. F			30.12?	765.0?	62.6	17.0		e.			2					0	0	fair	The Commandant.
S. W. Point, Anticosti	30.12	765.0	30.15	765.8	43	6.1	76	se.	3	1.3		7 cs	0	nw.		0	0		Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Sydney, C. B.	30.15	765.8	30.21	767.3	55	12.8	57	e.	5	2.2		7 ck	0	w.		0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.49	749.0	29.88	758.9	49	9.4	80	nw.	18	8.0		2 ck	7 ks	sw.	nw.	0.13	3.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.91	734.3	29.98	761.5	45.6	7.6	84	nw.	4	1.8			10 k			0.25	6.4	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.01	762.2	30.08	764.0	56	13.3	86	e.	3	1.3		2 cs	2 k	w.	e.	0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.09	764.3	30.12	765.0	59.0	15.0	82	ne.	6.1	2.7		0	8 k			0	0	light haze	I. Garfelt.
Springbok Fontein	27.89	708.4			76	24.4	35									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.02	762.6	30.10	764.6	48.7	9.3	85	s.			2	0	0					clear	Samuel Redolez.
Iquique	30.04	763.0	30.07	763.7	58.1	14.5	78	se.			3							cloudy	Rafael Moreno.
Niebla	29.88	759.0	29.99	761.7	38.5	3.6	97	e.			1		8		e.	0	0	misty	Federico Köhling.
Punta Caldera	30.00	762.0	30.09	764.2	54.5	12.5	82	w.			1		9 n		se.			cloudy	Manuel Tobar.
Punta Corona	30.28	769.1	30.47	773.9				w.			2		10 kn		w.	0.16	4.	cloudy	Ignacio Ayala.
Valparaiso	29.96	760.9	30.10	764.5	48.9	9.4	76	sw.			1							clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.09	637.3																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.94	760.4	29.96	761.0	77.5	25.3	93	ne.	10.5	4.7			9 k		ese.	0.035	0.9	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.78	756.3	29.82	757.5	61.2	16.2	67	sw.	13	6			3						Oversergent Fischer.
Fanoe	29.76	756.0	29.78	756.5	57.0	13.9	76	wsw.	9	4			5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.28	743.6	29.32	744.7	48.2	9.0	83	se.	13	6			10					raining	A. O. Thorlacius.
Thorshavn	29.79	756.7	29.82	757.3	54.7	12.6	78	sw.	9	4			3						Overloerer Bergh.
Vestervig	29.03	752.7	29.72	755.0	58.1	14.5	74	wsw.	4	2			4						Loerer Oesterbol.
Egyptian.																			
Cairo	29.67	753.6			91.4	33.0		ne.	4.9	2.2			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.63	752.7	30.24	768.2	61.0	16.1	77	nnw			1		nk		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.67	753.5	30.18	766.6	62.6	17	86	sw.			4		k		ne.	0	0		M. Nicot, Director.
Avignon, Normal School	29.94	760.4	30.02	762.4	72.0	22.2	50	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.54	750.2	30.08	764.1	64.8	18.2	53	wsw.			2		8 kn		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.77	756.2	30.04	762.9	62.4	16.9	71	w.			2		10		w.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.14	740.2	30.03	762.8	65.5	18.6	56	wsw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.91	759.7	30.17	766.3	63.7	17.6	65	w.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.58	751.3	30.13	765.2	61.7	16.5	77	w.			1				w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.91	759.8	30.16	766.0	61.2	16.2	96	nnw.			1		10		nnw.	0.031	0.8	misty	M. de Kermarée, Dir.
Caen, Normal School	29.94	760.5	30.02	762.6	61.2	16.2	85	w.			1		8		w.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.71	754.5	30.02	762.5	64.8	18.2	77	sw.			1		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.42	747.2	29.93	760.2	58.6	14.8	84	w.			2		10			0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.74	730.0	30.05	763.3	71.6	22.0	59	ne.			1		5		w.	0	0		M. Allnard, Director.
Cluny, Normal School	29.26	743.3	30.11	764.7	68.0	20	45	nw.			1				nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.23	742.4	30.10	764.4	56.8	13.8	60	nw.			6		10 kn	nw.	nw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.51	698.8	29.98	761.5	69.8	21	51	n.			2		1 c			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.86	733.1	29.95	760.8	69.1	20.6	53	nw.			4		5		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.27	743.4	30.03	762.7	69.1	20.6	54	nw.			8		k		nne.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.55	725.2	30.12	765.0	59.0	15	68	sw.			1		5 ck		e.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.82	757.4	30.10	764.4	62.6	17	80	w.			2		10		w.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.2	30.21	767.2	64.8	18.2	74	nw.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.02	762.6	30.13	765.2	61.5	16.4	81	wsw.			2				w.	0	0	foggy	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.04	737.7	30.09	764.2	64.6	18.1	53	nw.			1		2 k			0	0	slightly cl'dy	M. André, Director
Mans, Normal School	29.85	758.3	30.16	766.1	61.7	16.5		w.			4		8 n		nw.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.68	753.9	29.95	760.6	72.5	22.5	51	nw.			4		4		nw.	0	0		M. Stephan, Director.
Montlouis	25.00	635.1	29.85	758.1	60.8	16.0	45	sw.	13.0	5.8			5	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.2	30.00	761.9	75.9	24.4	53	nnw.			6		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	30.00	762.1	30.16	766.2	63.5	17.5	66	w.			1-4		10 n;kn		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.08	763.9	74.8	23.8	44	nw.	13.0	5.8			2			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	543.9			43.2	6.2		w.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.00	736.5	30.03	762.8	69.8	21	54	n.			1		2 s	n.	nw.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.25	641.4			48.0	8.9	84	w.			3		2 k			0.161	4.1	light clouds.	M. Allnard.
Rochefort, Naval Obs'y	30.11	764.9	30.15	765.7	65.8	18.8	61	sw.			2		10		wnw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	759.9	30.13	765.3	65.3	18.5	92	wsw.			2		10		wsw.	0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.99	711.0	30.16	766.1	51.3	10.7	89	nw.			2		10		se.	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.01	762.2	30.06	763.4	61.2	16.2	79	ssw.			1		10	sw.		0	0	covered	M. Mouillot, Dir.
Saint Maur, Observatory	29.90	759.4	30.06	763.6	63.3	17.4	60	w.			1		9	w.	wnw.	0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	64.8	18.2	71	nw.			2		10	nw.		0	0	covered	M. Bailland, Director.
Tours	29.94	760.5	30.12	765.0	64.4	18.0	65	ssw.			1		10		sw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.56	750.9	30.06	763.4	62.6	17.0	57	w.			4		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.05	763.2	30.20	767.0	66.2	19.0	83	sw.	9.8	4.4			10 k		w.	0.016	0.4	covered	M. Cartier, Director.
German.																			
Ansbach	28.60	726.5	30.02	762.6	62.6	17.0	47	nw.			4		4	nw.		0	0		Prof. Jnedt.
Bamberg	29.17	740.8	30.01	762.2	63.1	17.3	63	w.			1		5 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.80	756.9	29.94	760.4	66.2	19.0	47	sw.			1		9			0	0		Dr. Lensch.
Breslau	29.45	748.0	29.98	761.5	61.9	16.6	55	wnw.			3		9	ssw.		0	0		Royal University Obs'y.
Carlsruhe	29.60	751.8	30.05	763.2	64.4	18.0	55	sw.			3		10	sw.		0.012	0.3	raining	Albert Senz.
Cassel	29.25	742.9	29.96	761.0	60.1	15.6	61	sw.			6		8	sw.		0.181	4.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.64	752.8	29.99	761.8	65.3	18.5	53	wsw.			1		7			0	0		Physical Society.
Friedrichshafen	28.65	727.7	30.04	762.9	64.9	18.3	58	w.			1		2	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.80	756.8	29.89	759.1	58.8	14.9	78	sw.			3		10			0.106	2.7		E. Preiler.
Kiel	29.84	757.9	29.85	758.3	57.9	14.4	73	w.			2		10			0.256	6.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.56	750.7	29.97	761.2	63.7	17.6	45	wsw.			2		0	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.75	755.6	29.93	760.3	65.5	18.6	47	w.			2		8	w.		0	0		Weather Observatory.
Memel	29.92	760.0	29.97	761.2	64.6	18.1	80	s.			2		10 cs						Issermann.
Munich	28.21	716.4	30.07	763.8	61.2	16.2	60	nw.			2		6	w.		0	0		Central Station.
Neufahrwasser	29.90	759.5	29.92	759.9	64.9	18.3	64	ne.			1		8	sse.		0	0		A. Lothes.
Neustadt, Palatinate	29.49	749.0	30.02	762.4	62.8	17.1	57	w.			2		10			0	0		Dicknether.
Stuttgart	29.08	738.7	29.96	761.0	63.5	17.5	57	n.			1		4	w.		0.134	3.4		Prof. Dr. Schoder.
Wustrow	29.80	756.8	29.82	757.4	62.1	16.7	64	sw.			4		10 ks			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.39	746.4	29.76	755.8	80.4	26.9		sw.			1.5		1			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.56	750.7	29.61	752.0	84.1	28.9	72	w.	27.0	12.1			5	w.		0	0	d. clouds	
Deesa	29.09	738.9	29.56	750.7	85.1	29.5	63	sw.	11.0	4.9			9	sw.		0.72	18.3	d. clouds	
Bombay	29.72	754.9	29.76	755.8	80.3	26.8	90	w.	16.0	7.2			10		wsw.	0.20	5.1	overcast	
Poona, Yarrowda	27.91	709.0	29.78	756.5	72.3	22.4	87	wnw.	19.0	8.5			10			0.03	0.8	overcast	
Trichinopoly	29.53	750.1	29.80	757.0	93.5	34.2	42	wnw.	0.9	0.4			6			0	0	d. clouds	
Bellary	28.22	716.8	29.67	753.6	84.0	28.9	53	w.	16.0	7.2			8			0	0	d. clouds	
Belgaum	27.26	692.5	29.83	757.8	68.6	20.3	95	w.	11.0	4.9			10	w.		0.69	17.5	overcast	
Lahore	28.84	732.4	29.57	751.1	80.6	27.0	91	e.	2.0	0.9			6			0.74	18.8	d. clouds	
Roorkee	28.63	727.2	29.50	749.3	89.8	32.1	66	calm	0	0			0			0	0		
Agra	28.97	735.8	29.52	749.8	90.2	32.3	67	e.					3		e.	0	0	d. clouds	
Nagpur	28.53	724.6	29.57	751.0	78.7	25.9	82	w.	12.0	5.4			9		w.	0.20	5.1	gloomy	
Jubbulpore	28.18	715.8	29.54	750.2	74.1	23.4	93	sw.	6.0	2.7			10		sw.	3.99	101.4	thund'r st'm	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.14	740.2	29.51	749.5	93.0	33.9	57	n.	1.0	0.4			6			0	0		
Allahabad	29.18	741.2	29.49	749.0	87.7	30.9	73	nne.	2.0	0.9			2			0	0	d. clouds	
Patna	29.34	745.1	29.52	749.7	86.0	30.0	74	ene.	7.6	3.4			6	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.52	699.1	29.51	749.6	78.0	25.6	81	ese.	13.1	5.8			10		ese.	0.11	2.8	thud'r storm	
Cuttack	29.47	748.6	29.55	750.7	80.0	26.7	87	calm	0	0			8			0	0	d. clouds	
Calcutta, Alipore	29.54	750.2	29.56	750.8	81.2	27.3	85	sse.	4.0	1.8			10	se.	se.	0.04	1.0	gloomy	
Dhubri	29.48	748.6	29.59	751.6	83.9	28.8	85	calm	0.8	0.4			6			0.05	1.3	d. clouds	
Chittagong	29.60	751.9	29.69	754.1	78.2	25.7	93	se.	7.7	3.4			9			0	0	d. clouds	
Sibsagar	29.30	744.2	29.63	752.6	86.9	30.5	77	ne.	2.0	0.9			4			0.50	12.7		
Jeypore	28.11	714.1	29.52	749.7	89.2	31.8	65	ne.	3.7	1.7			6		s.	0.01	0.3	d. clouds	
Zanzibar	30.00	762.0			84.5	29.2	54	ese.	2.2	1.0			6	e.	se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.50	749.3	29.90	759.4	72.5	22.5	37	calm	0	0			2			0	0		Prof. Giovanni Clodig.
Milan	29.41	747.1	29.88	758.9	71.8	22.1	49	sw.	5.6	2.5			0			0	0		Prof. G. V. Schiapparelli
Padua	29.78	756.4	29.89	759.1	72.9	22.7	56	se.	1.8	0.8			7	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.03	737.4	29.91	759.7	70.9	21.6	40	ne.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Genoa	29.75	755.6	29.93	760.3	72.5	22.5	58	s.	4.3	1.9			2	n.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.03	712.0	29.90	759.5	66.0	18.9	45	nnw.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.84	758.0	29.89	759.2	73.4	23.0	55	e.	7.4	3.3			4	nw.		0	0		Prof. Luigi Guidi.
Florence	29.67	753.5	29.91	759.8	75.6	24.2	36	wsw.			2		10	nw.		0	0		Prof. Costantino Pittei.
Leghorn	29.79	756.7	29.87	758.8	71.8	22.1	62	w.	1.8	0.8			7			0	0		Prof. P. Monte.
Rome	29.73	755.1	29.90	759.4	77.4	25.2	29	n.	2.5	1.1			3			0	0		Prof. P. Tacchini.
Lecce	29.60	751.9	29.84	758.0	71.6	22.0	46	wnw.	11.2	5.0			4	w.		0.220	5.6		Prof. C. de Giorgi.
Cosenza	29.00	736.6	29.85	758.3	76.6	24.8	62	ssw.	3.1	1.4			3	sw.		0.043	1.1		Prof. D. Conti.
Cagliari	29.79	756.7	29.98	761.5	75.0	24.2	39	nw.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.73	755.2	29.97	761.3	73.9	23.3	57	nw.	14.3	6.4			4	nw.		0.386	9.8		Prof. G. Cacciatore.
Syracuse	29.82	757.3	29.86	758.4	78.8	26.0	47	nne.	8.1	3.6			6	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.39	746.6	29.90	759.5	74.3	23.5	49	nw.	0.7	0.3			9	nw.		0.004	0.1		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.97	761.1	30.01	762.1	61.0	16.1	95	calm			0	3 ck	4 ks;k	w.	w.	0	0	cloudy	H. Hattori.
Awomori	29.93	760.2	29.90	761.0	58.3	14.6	89	s.	6.0	2.7		0	2 s			0	0	fair	K. Ogawa.
Hamamatsu	29.93	760.2	29.90	760.9	78.5	25.8	88	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	29.98	761.4	29.99	761.7	78.9	26.1	75	calm			0		9 s			0	0	cloudy	G. Miyanoaaza.
Kanazawa	29.88	759.0	29.98	761.6	72.9	22.7	92	e.	6.0	2.7			10 n			0.131	3.3	raining	S. Endo.
Kioto	29.78	756.5	29.96	760.9	78.6	25.9	71	se.	1.8	0.8		0	1 s			0	0	clear	M. Tojima.
Kochi	29.99	761.7	30.01	762.2	79.8	26.6	86	e.	6.3	2.8			10 s			0	0	overcast	K. Kusunose.
Miasaka	29.98	761.4	30.00	762.1	76.8	24.9	86	ese.			1	1 ck	1 ck	nne.	nne	0	0	fair	K. Masusaki.
Miyako	29.87	758.6	29.98	761.4	60.7	15.9	96	wnw.	1.5	0.6		0	5 s			0	0	fair	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.77	756.1	29.96	761.0	78.7	25.9	81	n.	0.6	0.3		3 c	0	w.	w.	0	0	clear	S. Takehayasu.
Niigata	29.97	761.2	30.00	762.0	71.2	21.8	76	ne.	8.2	3.7			10 s			0.005	0.1	overcast	Satoo & Tomikawa.
Nobiru	29.95	760.7	29.96	761.1	68.8	20.4	84	ne.	4.1	1.8			10ks;s			0	0	overcast	Yoslino & Midzushina.
Numazu	29.92	759.9	29.96	760.9	74.7	23.7	87	nnw.			1	1 ck	4 s			0	0	fair	R. Kaneda.
Osaka	29.94	760.4	29.98	760.8	79.1	26.2	83	w.	3.4	1.5		0	0			0	0	clear	H. Omura.
Sakai	29.97	761.1	29.98	761.3	75.8	24.3	89	ne.			2	1 cs	3 ks	wsw.	ene.	0.307	7.8	fair	Yamawchi & Sakamoto.
Shimonoseki	29.84	757.9	29.98	761.6	77.0	25.0	90	calm			0	0	8cks;ks		w.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.86	758.5	29.94	760.4	76.1	24.5	89	ese.	7.3	3.2		0	1 ks		e.	0	0	clear	The Staff.
Wakayama	29.90	759.5	29.95	760.8	80.0	26.7	78	calm	0	0		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.92	760.0	30.11	764.8	74.7	23.7	70	wsw.	9.0	4.0		0	2 k		s.	0.02	0.5	clear	The Staff.
MEXICAN.																			
Leon	24.32	617.7	29.99	761.7	58.1	14.5	91	nnw.	0.9	0.4		5 c	2 ck		e.	0.423	10.7	cloudy	Prof. M. Leal.
Mazatlan																			F. Quijano, C. E.
Sub-series.																			
Altata					78	25.6	88	n.			1	3 c	0	e.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.87	758.7	29.87	758.7	58.6	14.8		ssw.			4					0	0		
Groningen	29.80	757.0	29.86	758.4	52.2	11.2		sw.			1					0.287	7.3		
Helder	29.83	757.6	29.83	757.6	56.1	13.4		sw.			4					0.146	3.7		
Hellevoetsluis	29.87	758.6	29.87	758.6	55.6	13.1	93	w.			3					0.724	18.4		
Utrecht	29.85	758.1	29.89	759.3	56.1	13.4	88	ssw.			2		10			0.693	17.6	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.94	760.5			81.5	27.5	75	ne.	0.5	0.2			9			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.55	750.5	29.61	752.1	58.6	14.8	74	ssw.	9.8	4.4			7			0.102	2.6		
Brono	29.53	750.0	29.57	751.0	56.8	13.8	70	w.			4		8			0.051	1.3		
Christiania	29.48	748.8	29.02	752.4	56.8	13.8	76	sw.	4	2			9			0.831	21.1		
Gjæsvær	29.47	748.6	29.50	749.2	60.1	15.6		sw.			4		5						
Lodingen	29.52	749.7	29.56	750.9	52.9	11.6	86	wsw.			5		10			0.106	2.7	rain & fog	
PORTUGUESE.																			
Angra, Azores					74.1	23.4	77	nne.	5.6	2.5			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.98	761.6	30.07	763.8	75.2	24.0	60	sw.	3.8	1.7			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.6	30.03	762.8	78.3	25.7	48	s.	3.1	1.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.26	768.7	30.34	770.5	74.5	23.6	69	ne.	9.8	4.4			5			0	0		
Saint Paul de Loando	29.78	756.3	29.98	761.4	72.9	22.7	77	nne.			1		2	s.		0	0		
San Salvador, Congo	28.08	713.3	29.91	759.6	80.8	27.1	43	w.			2		1						
Serra da Estrella	25.45	646.5	29.98	761.6	70.9	21.6	30	ene.	6.3	2.8			0			0	0		
RUSSIAN.																			
Akmolinski																			Major K. Lasarew.
Archangel	30.07	763.7	30.09	764.2	63.9	17.7	63	calm	0	0		0	7 ks			0	0		Capt. Sseltwerstow
Ashuruda	29.97	761.1	29.87	758.7	82.6	28.1	70	wsw.	13	6		0	7 k			0	0		
Astrakhan	30.08	763.9	30.00	762.1	82.0	27.8	36	ese.	9	4		0	4 ks			0	0		Capt. Wisganow.
Baku	29.98	761.4	29.93	760.2	77.0	25.0	65	nnw.	13	6		0	7 kn			0.012	0.3		
Barnaul	29.52	749.9	30.02	762.5	54.0	12.2	82	w.	4	2			9			0.039	1.0	raining	Meteorological Obs'y
Bielosersk	29.71	754.5	30.16	766.0	69.3	20.7	79	calm	0	0		0	8 ks			0	0		
Dorpat	29.79	756.7	30.03	762.8	58.3	14.6	90	ese.	7	3			10 n			0.315	8.0	raining	Observatory.
Ekaterinburg	29.42	747.2	30.39	772.0	51.3	10.7	82	e.	4	2			9 kn					light rain	Meteorological Obs'y.
Elisawetgrad	29.46	748.2	29.88	758.9	88.5	31.4	26	se.	22	10		0	4 k			0	0		
Irkutsk	28.38	720.9	29.98	761.6	60.3	15.7	90	calm			0					inap.	inap.		
Kasalinsk					71.6	22.0	37	n.	9	4		0	0						
Kasan	29.99	761.7	30.25	768.4	70.5	21.4	35	n.	7	3		6 c	0			0	0		Observatory.
Kem	30.01	762.2	30.00	763.5	64.9	18.3	51	sw.	22	10		0	6 k			0	0		
Kertch	29.78	756.4	29.80	757.0	82.9	28.3	58	e.	9	4		0	0			0	0		Lagorio & Sastyres.
Kieff	29.24	742.7	29.84	757.8	83.1	28.4	30	sse.	18	8		0	0			0	0		Observatory.
Koslov	29.61	752.2	30.10	764.4	82.4	28.0	35	ese.	4	2		0	1 k			0	0		
Libau	29.91	759.6	29.93	760.2	65.8	18.8	60	s.			3		10			0	0		E. Quaas.
Lugan	29.84	757.9	30.03	762.8	86.7	30.4	20	ene.	34	15			0			0	0		Meteorological Obs'y.
Moscow	29.63	752.6	30.08	764.0	82.0	27.8	38	w.	2	1		0	3 ks			0	0		Meteorological Obs'y
Nikolaiev	29.75	755.6	29.82	757.4	90.0	32.2	34	se.	31	14		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					46.2	7.9	89	w.	2	1			10 n						Iwanow.
Pekin, China	29.91	759.7	30.05	763.3	64.6	18.1	82	calm	0	0		0	5 ks			0.067	1.7		Physical Observatory.
Petro-Alexandrovsk	29.58	751.2	29.91	759.7	78.1	25.6	10	n.	2	1		0	0			0	0		
Petrozavodsk	29.94	760.5	30.13	765.4	59.0	15.0	82	ese.	11	5		0	8 ks			0.031	0.8		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.43	747.4	29.90	759.4	78.1	25.6	49	sse.	13	6		0	4 ks			0.138	3.5		
Poti	29.76	756.0	29.80	756.8	82.4	28.0	77	nw.	4	2		0	0			0	0		
St. Petersburg	30.09	764.2	30.11	764.8	60.1	15.6	78	sse.	4	2			10 n			0.008	0.2		Central Physical Obs'y.
Samarkand	27.41	696.2	29.77	756.1	74.5	23.6	41	calm	0	0		0	0			0	0		
Semipalatinsk	29.43	747.4	30.08	764.1	54.9	12.7	50	n.	4	2			3			0	0		Major Lasarew
Sevastopol	29.52	749.8	29.72	754.9	85.5	29.7	56	nw	4	2		5 cs	0			0	0		
Staroi Bykhov	29.43	747.4	29.95	760.6	83.8	28.8	71	sse.	20	9		8 ck	0			0	0	light clouds	
Tashkend Laboratory	28.15	714.9	29.71	754.5	83.8	28.8	26	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.48	723.4	29.81	757.2	86.4	30.2	27	sse.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.31	693.7	29.72	754.8	69.1	20.6	50	calm	0	0		0	0			0	0		
Viatka	29.67	753.5	30.28	769.1	70.0	21.1	54	se.	4	2			0			0	0		
Warsaw	29.46	748.8	29.90	759.4	59.9	15.5	86	nw.	11	5			10 n			1.063	27.0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.91	759.8	30.20	767.1	53.8	12.1	68	nne.	4	2			6			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	77.0	25.0	63	sse.	4.3	1.9		3 c	0			0	0	misty	Antonio Molins.
Bilbao, Met. Obs'y	30.11	764.8	30.17	766.3	74.5	23.6	57	nw.	1.6	0.7		2	3	ne.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.0	30.00	763.5	75.7	24.3	39	ne.	3.1	1.4			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.4	29.99	761.8	85.1	29.5	29	se.	5.1	2.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.93	760.3	30.06	763.6	82.8	28.2	57	e.	3.1	1.4		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.41	747.1	30.17	766.4	67.1	19.5	73	nw.	0.9	3.1		6 k	4 n	w.	nw.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.21	741.8	30.07	763.8	73.2	22.9	56	n.	9.8	4.4			2			0	0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.80	756.9	29.87	758.6	77.0	25.0	88	ssw.	2.2	1.0		cs;ck	k	nne.	ene.	0.13	3.3	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.5	29.80	756.9	77.6	25.3	93	se.	8.8	3.9			10 n		ssw	0.433	11.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.6	30.04	763.0	84.2	29.0	29	e.	17.6	7.9		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.88	759.0	29.97	761.3	79.2	26.2	83	calm	0	0		5 cs	3 k	sw.	sw.	0.228	5.8	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.80	756.8	29.84	757.8	55.0	12.8	85	sw.			6		10			0	0		
Umea	29.73	755.1	29.78	756.4	55.0	12.8	91	sw.			6		10			0.047	1.2		
Hernosand	29.51	749.6	29.56	750.9	59.4	15.2	78	ssw.			4		8			0	0		
Stockholm	29.63	752.7	29.81	757.2	59.4	15.2	62	ssw.			4		2			0.118	3.0		
Wisby	29.76	756.0	29.82	757.5	62.2	16.8	64	s.			4		0			0.110	2.8		
Sub-series.																			
Upsala	29.66	753.4	29.75	755.6	60.8	16.0	67	s.	15.9	7.1			6		sw.	0.063	1.6		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.65	727.8	30.03	762.8	71.1	21.7	47	s			2		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			29.71	754.7	86.0	30.0	45	s.	9	4.0			1		sw.	0	0		The Observatory.
Valona			29.99?	761.8?	70.3	21.3		sw.			1		10			0.39	10.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	86.9	30.5	60	sw.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.81	681.0			64	17.8	78	calm			0		10 n		w.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.87	758.7	29.95	760.7	63.5	17.5	70	s.	4	1.8			10s;fg		sw.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	748.3	30.11	764.8	44	6.7	76	ne.	12	5.4		9 k	0	ne.		0.68	17.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.89	759.2	55	12.8	83	se.	1	0.4		0	0			0.06	1.5	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.11	688.6	29.96	761.0	46	7.8	76	ne.	5	2.2			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.05	763.3	66.5	19.2	72	nw.	4	1.8		2 c	fg	sw.		0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	67	19.4	78	sw.	1	0.4		5 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.06	763.5	65.0	18.3	90	calm	0	0		0	hz.			0	0	clear	D. J. Young.
Baltimore, Maryland	29.92	760.0	29.97	761.2	63	17.2	78	s.	4	1.8		4 c	hz.			0	0	fair	Geo. W. Feiger.
Barnegat City, New Jersey	29.96	761.0	29.98	761.5	68.0	20.0	73	sw.	5	2.2		4 cs	0	sw.		0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.15	740.4	29.17	740.9	47.1	8.4	94	se.	24	10.7			10 n			0.32?	8.1?	light rain	Geo. Chernick.
Bennett, Fort, Dakota	28.76	730.5	30.35	770.9	39.0	3.9	82	se.	8	3.6		4 k	5 s	se.	se.	0	0	cloudy	A. Pritchard
Benton, Fort, Montana	27.19	690.6	30.03	762.7	54	12.2	86	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.53	724.6	30.33	770.4	34	1.1	81	e.	6	2.7		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.99	761.7	30.02	762.5	63	17.2	75	sw.	6	2.7		3 ck	0	w.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.10	689.9	29.93	760.2	55	12.8		s.	1	0.4			10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.88	758.9	30.02	762.5	55.0	12.8	100	se.	2	0.9			fg.			0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	73.0	22.8	97	n.	4	1.8		8 cs	2 s	n.	n.	0.19	4.8	threatening	E. C. Imlay.
Buffalo, New York	29.11	739.4	29.84	757.9	52	11.1	98	nw.	8	3.6			10 n		nw.	0.24	6.1	light rain	Wm. Finn.
Buford, Fort, Dakota	28.21	716.5	30.10	766.8	42	5.6	67	e.	14	6.3		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.68	753.9	30.08	764.0	62.1	16.7	87	n.	16	7.2			10 n		n.	0.02	0.5	light rain	W. H. Ray.
Canby, Fort, Washington Ter	29.89	759.2	30.09	764.3	57.0	13.9	95	s.	21	9.4		0	5 s		s.	0.31	7.9	fair	O. D. Stewart.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	65.0	18.3	90	s.	10	4.5		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	68.0	20.0	78	s.	15	6.7		2 c	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.0	57	13.9	86	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.94	760.5	29.96	761.0	75	23.9	85	ne.	12	5.4		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.95	760.7	30.00	762.0	72.0	22.2	84	ne.	5	2.2		3 c	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.10	740.7	30.00	762.0	64.0	17.8	84	sw.	2	0.9		5 c	fg.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.02	762.5	62.0	16.7	93	calm	0	0		4 cs	fg.	sw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.19	614.4	30.05	763.3	48.4	9.1	93	s.	14	6.3			fg.			0.71	18.0	dense fog	E. McGovern.
Chicago, Illinois	29.48	748.8	30.17	766.3	47.5	8.6	88	nw.	10	4.5			10 n			0.17	4.3	heavy rain	Wm. Norrington.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	68	20.0	84	se.	5	2.2		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	29.98	761.5	54	12.2	86	n.	9	4.0			10 n			inap.	inap.	light rain	L. Dunne.
Cleveland, Ohio	29.25	742.9	29.97	761.2	53.5	11.9	86	n.	13	5.8			10 n		n.	0.23	5.8	light rain	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.11	739.4	29.95	760.7	58	14.4	93	nw.	9	4.0			10 n		n.	0.28	7.1	thnd'r str'm	D. Cuthbertson
Concho, Fort, Texas	28.12	714.2	30.02	762.5	63.6	17.6	90	nw.	3	1.3		0	0			0.49	12.4	clear	J. McGlone.
Custer, Fort, M. T.	26.80	680.7	29.92	760.0	53	11.7	80	e.	4	1.8		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.61	752.1	30.26	768.6	44	6.7	76	ne.	12	5.4		0	4 s		ne.	inap.	inap.	fair	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	29.98	761.5	58	14.4	72	n.	8	3.6		0	1 ks		n.	0	0	clear	J. Williams.
Dayton, Washington T'y	28.26	717.8	30.01	762.2	57.5	14.2	57	sw.	0	2.7		9 k	0	sw.		0	0	cloudy	D. Moore.
Deadwood, Dakota	25.45	646.4	30.01	762.2	45	7.2	71	w.	2	0.9		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	29.97	761.2	29.99	761.7	63	17.2	93	s.	12	5.4		1 c	hz.	s.		0	0	clear	T. S. Townsend.
Denver, Colorado	24.90	632.4	30.01	762.2	55.5	13.1	86	nw.	2	0.9			10 s		nw.	0.18	4.6	cloudy	F. M. Neal.
Des Moines, Iowa	29.46	748.3	30.35	770.9	39	3.9	82	ne.	8	3.6		0	3 s		ne.	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.04	763.0	47.0	8.3	86	w.	4	1.8		4 ck	0	w.		0.11	2.8	fair	E. R. Brace.
Dodge City, Kansas	27.64	702.0	30.19	766.8	51	10.0	93	ne.	12	5.4			10 s			0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.61	752.1	30.31	769.9	40	4.4	77	n.	7	3.1		0	2 ks		n.	0.01	0.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.68	753.9	30.42	772.7	40	4.4	82	nw.	11	4.9		0	1 k			0	0	clear	N. B. Conger.
Eastport, Maine	30.02	762.5	30.09	764.3	52.5	11.4	86	e.	15	6.7			10 s		se.	0	0	cloudy	D. C. Murony.
Elliott, Fort, Texas	27.42	696.5	30.11	764.8	55	12.8	80	ne.	10	7.2			10 s		ne.	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.03	762.7	67.0	19.4	57	e.	4	1.8		3 cs	3 s	e.	e.	0.10	2.5	fair	J. O'Dowd.
Erie, Pennsylvania	29.17	740.9	29.88	758.9	57	13.9	93	nw.	11	4.9			10 n			0.87	22.1	light rain	C. A. Shaw.
Escanaba, Michigan	29.64	752.8	30.30	769.6	41.5	5.3	88	n.	13	5.8		0	4 k		n.	0.20	5.1	fair	George Heathcote.
Galveston, Texas	29.91	759.7	29.95	760.7	77	25.0	70	n.	8	3.6		0	9 ks		s.	0.04	1.0	cloudy	E. O'C. Machnerney.
Grand Haven, Michigan	29.52	749.8	30.18	766.6	42.0	5.6	82	n.	12	5.4		0	1 k		nw.	0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.28	642.1	29.88	758.9	70.2	21.2	47	se.	3	1.3		2 ck	0	sw.		0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.00	762.0	30.02	762.5	69.0	20.6	73	ne.	0	2.7		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.74	653.8	29.91	759.7	63	17.2	54	nw.	3	1.3		5 k	4 s	n.		blank	blank	cloudy	T. H. Jones.

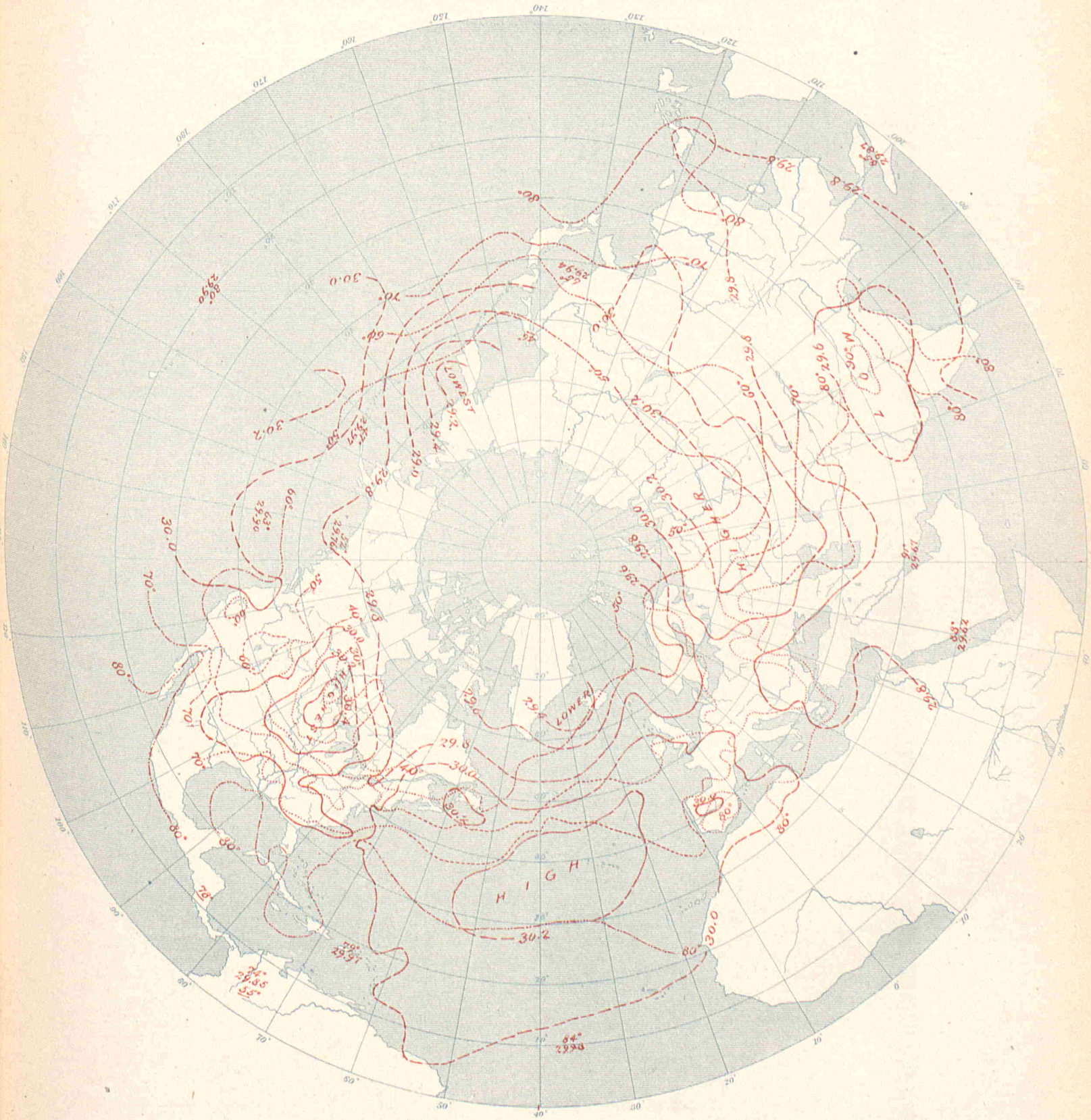
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	29.02	737.1	30.40	772.1	35.3	1.8	89	e.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.06	763.5	53.0	12.0	67	n.	6	2.7			10 s		n.	0.02	0.5	threatening.	C. F. R. Wappenhans.
Indianola, Texas	29.90	759.4	29.93	760.2	73.6	23.1	98	e.	7	3.1			10 s			0.88	22.4	cloudy	I. A. Reed.
Jacksonville Florida	29.94	760.5	29.98	761.5	69.5	20.8	90	ne.	6	2.7		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.61	752.1	30.26	768.6	48.0	8.9	77	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	F. Z. Gosewisch.
Key West, Florida	29.82	757.4	29.84	757.9	82.5	28.1	74	ne.	11	4.9		1 cs	3 k		ne.	0.29	7.4	fair	A. W. Browne.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	65.5	18.6	81	se.	3	1.3		hz.	0			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.00	736.6	30.02	762.5	61.8	16.6	88	calm.	0	0		7 c	sk.			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.60	751.8	30.37	771.4	37	2.8	82	n.	8	3.6		0	0			0.03	0.8	clear	S. C. Emery.
Leavenworth, Kansas	29.38	746.2	30.26	768.6	53	11.7	72	ne.	12	5.4			10 s		ne.	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.16	740.7	29.98	761.5	53.0	11.7	62	calm	0	0		0	sk.			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.64	752.8	29.95	760.7	65	18.3	84	calm	0	0		3 ck	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.55	750.6	29.94	760.5	63.5	17.5	88	s.	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.42	747.3	29.97	761.2	63.5	17.5	84	n.	15	6.7			10 n		n.	inap.	inap.	light rain	L. M. Dey.
Lynchburg, Virginia	29.28	743.7	29.96	761.0	58	14.4	80	calm	0	0		2 c	fg.			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.55	750.6	30.20	767.1	44.5	6.9	74	n.	16	7.2		0	5 ks		ne.	0.32	8.1	fair	D. B. Notson.
Macon, Fort, North Carolina	30.02	762.5	30.03	762.7	68.0	20.0	70	ne.	3	1.3		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.54	648.7	29.94	760.5	46	7.8	86	s.	3	1.3		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.61	752.1	30.33	770.4	43.0	6.1	74	ne.	11	4.9			10 ks		n.	0.06	1.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.66	753.4	30.00	762.0	68	20.0	78	calm	0	c		5 cs	sk.	sw.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.49	749.0	30.23	767.8	43	6.1	74	n.	13	5.8		0	1 ks		n	0.01	0.3	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.94	760.5	29.98	761.5	75	23.9	88	n.	2	0.9		4 c	2 k;hz	nw.	sw.	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.79	756.7	30.02	762.5	68	20.0	78	calm	0	0		5c;cs	fg.			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.43	747.5	30.42	772.7	31	— 0.6	88	e.	7	3.1		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.83	605.3	29.98	761.5	40.0	4.4	92	sw.	38	17.0		10 cs	sk.	sw.		0	0	dense smoke	S. W. Beall.
Nashville, Tennessee	29.42	747.3	29.99	761.7	62.0	16.7	90	w.	1	0.4		6 c	fg.	sw.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.88	758.9	29.98	761.5	55	12.8	86	s.	2	0.9			10s;fg		s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	59	15.0	93	calm	0	0			8 ks			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.95	760.7	79.5	26.4	78	w.	2	0.9		2 ck	hz.	n.		0	0	clear	M. Herman.
New York, New York	29.84	757.9	30.01	762.2	63	17.2	73	s.	2	0.9			10 s		sw.	0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	29.95	760.7	29.98	761.5	64.0	17.8	90	s.	5	2.2		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.37	695.2	30.25	768.3	46.6	8.1	83	e.	10	4.5			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.92	760.0	29.96	761.0	50.0	13.3	93	s.	1	0.4			10 s			0.02	0.5	cloudy	J. Dascomb.
Omaha, Nebraska	29.20	741.7	30.37	771.4	42.0	5.6	89	ne.	6	2.7		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska																			P. H. Rey.
Oswego, New York	29.48	748.8	29.80	756.9	60.5	15.8	85	s.	5	2.2			10 s		w.	0.06	1.5	cloudy	J. G. Linsley.
Palestine, Texas	29.47	748.5	30.02	762.5	71.0	21.7	90	sw.	2	0.9		10c;cs	0	ne.		0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.95	760.7	29.98	761.5	73.1	22.8	84	ne.	4	1.8		1 cs	1 k			0	0	clear	M. McGauran.
Philadelphia, Pa	29.88	758.9	29.98	761.5	63	17.2	93	sw.	3	1.3		5ck;cs	hz.	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.08	459.2	30.06	763.5	30	— 1.1	84	w.			2	2 c	0			0.09	2.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.10	739.1	29.89	759.2	62.6	17.0	73	calm	0	0		9 cs	0	w.		0.02	0.5	cloudy	G. C. Schaeffer.
Poplar River, Montana					45	7.2	60	ne.			1	1 c	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.31	744.5	29.98	761.5	44.9	7.2	93	nw.	16	7.2			10 s		n.	0.43	10.9	cloudy	M. H. Perry.
Portland, Maine	30.00	762.0	30.04	763.0	54.0	12.2	86	e.	5	2.2			10 s		e.	inap.	inap.	threatening.	W. W. Eichelberger.
Portland, Oregon	29.95	760.7	30.02	762.5	57.2	14.0	80	e.	3	1.3		5 cs	0			0	0	fair	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.93	760.2	63	17.2	75	w.	4	1.8		0	0			0.01	0.3	clear	N. D. Lane.
Provincetown, Mass	30.00	762.0	30.03	762.7	63.5	17.5	78	s.	6	2.7		2 c	1 s	w.	w.	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.56	750.8	29.91	759.7	64	17.8	58	n.	2	0.9		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.07	763.8	51.8	11.0	81	se.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.82	757.4	29.89	759.2	60.0	15.6	70	se.	5	2.2		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.58	751.3	30.18	766.6	55.2	12.9	84	ne.	16	7.2			10 ks		ne.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.69	754.1	29.72	754.9	43	6.1	83	s.	16	7.2		0	5 s			inap.	inap.	fair	A. P. Leavitt.
St. Paul, Minnesota	29.56	750.8	30.41	772.4	38.0	3.3	82	n.	3	1.3		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.57	751.1	30.44	773.2	29	— 1.7	88	calm	0	0		0	0			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.56	694.2	29.81	757.2	74	23.3	39	e.	4	1.8		3 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.84	757.9	29.90	759.4	64.0	17.8	90	sw.	6	2.7			10 s		sw.	0	0	cloudy	F. R. Day.
Sanford, Florida	29.87	758.7	29.92	760.0	70	24.4	85	ne.	8	3.6		7 k	0	ne.		0.01	0.3	fair	J. B. Marbury.
Sandusky, Ohio	29.36	745.7	30.03	762.7	52	11.1	80	n.	26	11.6			10 ks		nw.	0.50	12.7	cloudy	B. F. Heugh.
Sandy Hook, New Jersey	29.96	761.0	29.99	761.7	65.0	18.3	73	sw.	4	1.8		8 k	0	sw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.88	758.9	29.95	760.7	54	12.2	86	w.	7	3.1		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	70	21.1	87	n.	3	1.3		2 cs	1 s		n.	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.28	667.5	29.89	759.2	50	10.0	86	w.	1	0.4		8 k	0	w.		0	0	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.72	754.9	29.96	761.0	71.5	21.9	72	w.	1	0.4			10 s		w.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732.8	30.07	763.8	60	15.6	81	n.	24	10.7		1 c	1 s		n.	0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.70	754.4	29.76	755.9	52	11.1	90	e.	2	0.9			10 k		e.	0.12	3.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.54	750.3	30.01	762.2	69.9	21.1	84	n.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.98	761.5	30.02	762.5	69.0	20.0	78	ne.	4	1.8		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.90	761.0	55	12.8	69	s.	10	4.5		0	sk.			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.52	749.8	30.19	766.8	51	10.0	71	n.	12	5.4			10 s		ne.	0.10	2.5	cloudy	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.08	678.8	30.04	763.0	61	16.1	90	sw.	1	0.4		0	3 s			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					72	22.2	55	se.			1	0	5 s			0	0	fair	R. C. Lord.
Toledo, Ohio	29.35	745.5	30.03	762.7	49	9.4	77	n.	11	4.9			10 s		n.	0.02	0.5	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.95	760.7	29.97	761.2	47	8.3	68	n	6	2.7			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					70	21.1	55	s.			1	0	1 s		s.	0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.74	755.4	29.98	761.5	70.0	21.1	80	calm	0	0		1 c	7s;fg	w.		0	0	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.85	758.2	29.96	761.0	63.1	17.3	84	s.	4	1.8		0	hz.			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.24	666.5	30.06	763.5	54.5	12.5	86	e.	18	8.0			10 s		se.	0.01	0.3	threatening	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	29.97	761.2	30.02	762.5	68.5	20.3	80	calm	0	0		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	29.08	738.6	30.37	771.4	30.8	2.7	89	ne.	8	3.6		2 c	0			inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.62	752.3	29.70	755.9	80.1	26.7	67	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		ne.			1		4 k		ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.05	560.0			55.4	13.0	70	calm	0	0		3 k	5 ks;s	n.	n	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.90	759.4	70.3	24.6	92	n.	1	0.4		2 cs	7 s		sse.	0.01	0.3	cloudy	Robert Johnstone.
Paramarino, S. A.	30.00	762.0	30.00	762.0	79	26.1	82	se.			2	4 c	0			0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.29	744.0	29.85	758.2	74	23.3	89	calm			0		10 ks		calm	0.27	0.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	88	ne.			1	1 cs		se.		0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A.	29.70	754.4	29.77	756.1	39.5	4.2	95	w.	11	4.9		0	1 s		w.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 37° 30′, E. 23° 37′	29.77	756.1	78	25.6	69	sse.			1		1	sse.				sm'h		blue sky.
H M. S. Coquette, N. 39° 38′, E. 19° 56′	29.83	757.7	73	22.8		wnw.			2		5	wnw.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.07	763.8	80	26.7	82	se.			3		4	se.						d. clouds.
H. M. S. Flamingo, N. 48° 41′, W. 53° 07′	30.15	765.8	50	10.0		w.			1									d. clouds.
H. M. S. Iris, N. 31° 40′, E. 32° 30′	29.84	757.9	80	26.7	87	nw.			2		0					1	nnw.	blue sky.
H. M. S. Tenedos, St. Johns, N.F.	30.20	767.1	52	11.1	79	calm			0		5	calm						misty.
U. S. Navy Yard, Portsmouth, N.H.*	29.98	761.5	56	13.3	94	ne.	12	5.4			10		ne.	0	0			cloudy.
U. S. S. Alliance, Sydney, C.B.	30.22	767.6	57	13.9	69	ne.			2		2			0	0	sm'h		clear.
U. S. S. Galena, New York, N. Y	29.99	761.7	65	18.3	84	ssw.			1		10		s.			sm'h		cloudy.
U. S. S. Jamestown, N. 34° 34′, W. 110° 12′	30.02	762.5	70	21.1	95	wnw.			3		5					mod.	n.	hazy
U. S. S. Kearsarge, N. 39° 59′, W. 31° 02′	30.37	771.4	75	23.9	72	sw.			3		2					sm'h		fair.
U. S. S. Lancaster, Port Mahon, Spain	30.08?	764.0?	74	23.3	72	ne.			2		2		calm			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass.	30.03	762.7	61	16.1	100	sse.			2		2		sse.					clear.
U. S. S. Powhatan, New York, N. Y	29.99	761.7	63	17.2	83	ssw.			1		8?							overcast.
U. S. S. Quinnebaug, N. 42° 08′, W. 10° 33′	30.36	771.1	66	18.9	84	n			5		2		n.			long	n.	fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.02	762.5	62	16.7	88	s.			2		8		s.	0	0	sm'h		cloudy.
U. S. S. Swatara, Madame Island, N. S	30.18	766.6	57	13.9	75	e.			3		8		e.	0	0	sm'h		fair.
U. S. S. Vandalia, N. 48° 48′, W. 65° 53′	30.20	767.1	50	10.0	86	calm			0		5		calm					fair.
U. S. S. Yantic, N. 61° 20′ W. 54° 57′	29.57	751.1	40	4.4	82	nw.			4–5		8					mod	n.	cloudy.
S. S. British Crown, N. 42° 55′, W. 62° 10′†	30.05	763.3	60	15.6		ene.			5		10			2 h'r	2 h'r	sll't	ene.	drizzling.
S. S. Lord Clive, N. 47° 03′, W. 42° 43′	30.19	766.8				wnw.			2		5		nw.	0	0	sm'h		fine.
S. S. Lord Gough, Liverpool, Eng.						wnw.			4		10		wnw.	0	0			cloudy.
S. S. Ohio, Liverpool, Eng†	30.03?	762.7?	65	18.3	73	nw.			2		5?		nw	3 h'r	3 h'r			clear?
S. S. Circassian, N. 49° 39′ W. 60° 08′	30.20	767.1	49	9.4	85	w.			1		3		w.			2	sw.	d. clouds.
S. S. Grecian, N. 54° 48′, W. 42° 56′	29.71	754.6	55	12.8	87	w.			5		10?		w.	½ h'r	½ h'r	mod.	w.	fair?
S. S. Nova Scotian, N. 45° 57′, W. 57° 25′	30.22	767.6	56	13.3		ne.			4		5		w.			sll't	wsw.	fair.
S. S. Polynesian, N. 56° 02′, W. 12° 46′	29.99	761.7	62	16.7		wsw.			5		9		w.	0	0	mod.	wnw.	cloudy.
S. S. Scandinavian, N. 52° 19′, W. 31° 02′	29.83	757.7	60	15.6		wsw.			4		4		wsw.	0	0	mod.	wsw.	d. clouds.
S. S. Alvo, Kingston, Jamaica, W.I.*	29.84	757.9	80.5	26.9		calm			0		8		calm	0	0			
S. S. Andes, N. 34° 00′, W. 76° 15′*†	30.16?	766.1?	78	25.6		nne.			3		0			0	0			clear.
S. S. Avilla, Mayagues, Porto Rico, W.I			84	28.9		calm			0		0			0	0			
S. S. Australia, N. 36° 30′, W. 11° 29′*†	30.12	765.0	64	17.8		nne.			4		0			0	0	long	nnw.	hazy.
S. S. Devonia, N. 55° 17′, W. 13° 28′*†	30.05	763.3	58	14.4		w.			3		7?		w.			mod	w.	clear.
S. S. Dorian, N. 36° 23′, W. 7° 08′	29.99	761.7	72	22.2		ese.			5		0			0	0	mod.	ese.	clear.
S. S. Furnesia New York, N. Y†	30.01	762.2	70	21.1	80	sse.			2		10		sse.	0	0			cloudy.
S. S. Landaff City, N 45° 48′, W. 41° 21′†	30.19	766.8	68	20.0		nnw.			3		8		n.	0	0	sm'h		cloudy.
S. S. Gallia, N. 42° 34′, W. 51° 39′	30.07	763.8	64	17.8	94	se.			3		10		e.	light	light	sm'h		overcast.
S. S. Pavonia, N. 43° 25′, W. 48° 13′*	30.18	766.6	64	17.8	89	calm			0		9?			4 h'r	4 h'r	sm'h		fair?
S. S. Samaria, N. 42° 44′, W. 59° 40′			59	15.0		ne.			5		8		nne.	8 h'r	8 h'r	mod.	ne.	cloudy.
S. S. Canada, N. 47° 08′, W. 47° 43′	30.21?	767.2?	53.6	12		w.			4		mist					sm'h	se.	covered.
S. S. Wisconsin, N. 47° 08′, W. 47° 18′			54	12.2		n.			1		7		n.	0	0	sm'h		cloudy.
S. S. Wyoming, Liverpool, Eng.	30.00	762.0	62	16.7		w.			6		5		wnw.	0	0			clearing.
S. S. Bohemia, N. 42° 42′, W. 61° 04′†	30.16?	766.1?				w.			3		10		e	5 h'r	5 h'r	sm'h	ne.	raining.
S. S. Gellert, New York, N. Y	29.95	760.7	65	18.3	78	wnw.			1		8			0	0			cloudy.
S. S. Silesia, N. 48° 30′, W. 31° 05′	30.08	764.0	62.5	16.9		ssw.			4		10		ssw.			mod	nw.	misty.
S. S. Westphalia, N. 44° 51′, W. 55° 09′	30.11	764.8	58	14.4	?	e.			1		9		sw.	0	0	sm'h		cloudy.
S. S. Rhaetia, N. 50° 36′ W. 14° 03′*	30.09	764.2	56	13.3		n.			1–2		4		nw.	0	0	long	wnw.	light fog.
S. S. Bulgarian, N. 44° 57′, W. 47° 56′*	30.27?	768.8?				wnw.			1		3		nw.	1 h'r	1 h'r			fine.
S. S. Virginian, N. 49° 11′ W. 22° 59′*	30.10	764.5	64	17.8		ssw.			2		0			0	0	sm'h		clear.
S. S. Rosse, N. 42° 42′, W. 42° 07′*	30.26	768.6	76.5	24.7		se.			3				wnw.	2 h'r	2 h'r	sm'h		clear.
S. S. Rio Grande, N. 30° 50′ W. 80° 27′†	29.96	761.0	82	27.8		nne.			2		3		n	0	0	sm'h	ne.	fair.
S. S. Chalmette, N. 28° 56′, W 89° 06′†	29.99	761.7	81	27.2		sw.			2		2			0	0			clear
S. S. New York, N 31° 45′ W. 80° 00′*†	30.00	762.0	80	26.7		ne			2		2		ne.	0	0	long	ne.	clear.
S. S. Alleghany, N. 38° 05′, W. 75° 00′†	30.05?	763.3?	70	21.1		s.			2		0			0	0			fine.
S. S. Archimede, Palermo, Sicily †	29.93	760.2	72	22.2		nnw.			4		3		nnw.	0	0			clear.
S. S. City of Washington, N. 33° 35′, W. 75° 26′ *†	30.10?	764.5?	78	25.6		ne.			2		2		s.	0	0	light	se.	fine.
S. S. Canada, N. 48° 08′, W. 18° 50′ †	30.35?	770.9?	63	17.2		w.			2		10		calm	shr's	shr's	sm'h		overcast.
S. S. Denmark, N. 49° 51′, W. 10° 00′†	30.20?	767.1?	60	15.6		nw.			4		8		n.	5 h'r	5 h'r	r'gh	nw.	fair.
S. S. Egypt, N. 51° 09′ W. 22° 43′	30.14?	765.5?	51	10.6		sw.			6		5		sw.	0	0	mod.	nw.	fair.
S. S. England, N. 41° 40′, W. 60° 16′	30.03	762.7				s.			4		10		s.	14 h'r	14 h'r	sm'h		overcast.
S. S. Helvetia, Liverpool, Eng.	29.82?	757.4?	59	15.0	100	nw.			6		5		nw.	8 h'r	8 h'r			fair
S. S. America, N. 38° 50′, W. 70° —′*	30.06	763.5	70.0	21.1	80	ne			2		1		ne.	0	0	mod.	n.	clear.
S. S. Elbe, Bremerhaven, Germany	29.84	758.0	60.8	16.0	89	sw.			5		10		sw.	0	0			covered.
S. S. Fulda, N. 45° 18′, W. 50° 14′	30.16	766.1	55.4	13.0	82	wnw.			3		9		nw.	0	0	sm'h	wnw.	cloudy.
S. S. Gen. Werder, N. 46° 01′ W. 52° 47′	30.22	767.6				ne.			2		10		w.	0	0	sm'h	var.	cloudy.
S. S. Neckar, N. 43° 00′, W. 57° 49′	30.12	765.0	65.0	18.3	89	e.			4		9		ne.	light	light	sm'h	e.	cloudy.
S. S. Oder, N. 49° 57′, W. 26° 11′	30.02	762.5	61.7	16.5		ssw.			3–4		6		sw.	0	0	mod.	nw.	fair.
S. S. Ohio, Baltimore, Md	30.13?	765.3?				w.			3		1		sw.	0	0			clear.
S. S. Salier, N. 49° 35′, W. 33° —′*	29.96	761.0	66.2	19.0	42	wnw.			3		4		w.	0	0	sm'h	w.	fair.
S. S. Strassburg, N. 48° 43′ W 36° 16′	30.01	762.2	62.0	16.7	72	wnw.			3		4		wnw.	0	0	3	wnw.	fair.
S. S. Werra, N. 50° 57′, W. 16° 21′	30.15	765.8	58.1	14.5		w.			4		10		w.	2 h'r	2 h'r	mod.	wnw.	raining.
S. S. City of Augusta, Savannah, Ga †	30.07	763.8				nne.			3		4		nne.	0	0			fair.
S. S. Muriel, St. Thomas, W.I	29.95	760.7	84	28.9		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 38° 29′ W. 71° 48′			68	20.0		ne.			2		1			0	0	light	e.	clear.
S. S. Belgenland, N. 47° 50′, W. 33° 38′†	30.12	765.0	65	18.3	94	sse.			5		10			1 h'r	1 h'r	sm'h	w.	dense fog.
S. S. Nederland, N. 50° 43′, W. 31° 26′			61	16.1	77	wnw.			5		2		wnw.	0	0	mod.	wnw.	clear.
S. S. Rhynland, Antwerp, Belgium	29.88	758.9	57	13.9	87	s.			5		9		sse.	10 h'r	10 h'r			cloudy.
S. S. Pennland, Antwerp, Belgium	29.95	760.7	59	15.0	88	ssw.			3		9		ssw.	0	0			cloudy.
S. S. Vaderland, Antwerp, Belgium			59	15.0		s.			5		8		s.	3 h'r	3 h'r			drizzling.
S. S. Waesland, New York, N.Y	30.00	762.0	64	17.8		se.			3		8		se.	0	0			cloudy.
S. S. Zeeland, N. 50° 13′, W. 12° 40′ *†	30.22?	767.6?	59	15.0		wnw.			3		0			0	0	h'vy	w.	clear.
S. S. P. Caland, N. 49° 20′, W. 34° 35′	30.00	762.0	63.0	17.2	83	wnw.			4		5		w.			3	wnw.	fair.
S. S. W. A. Scholten, N. 49° 27′, W. 19° 10′	30.17	766.3	59.9	15.5	89	sse.			1		6		sse.	2 h'r	2 h'r	2	s.	fair.
S. S. Belize, N. 25° 30′, W. 74° 09′			85	29.4		se.			9		10		se.	16 h'r	16 h'r	h'vy	se.	cloudy.
S. S. Valencia, N. 14° 07′, W. 68° 22′ †	29.90	759.4	85	29.4	83	e.			5		2		ene.	0	0	mod.	e.	clear.
S. S. Caracas, N. 38° 09′, W. 69° 28′*†	30.10	764.5	81.5?	27.5?	87	sse.			6		8		sse.	1 h'r	1 h'r	mod.	se.	squally.
S. S. State of Nevada, N. 42° 07′, W. 62° 51′	29.96?	761.0?	60	15.6		ene.			5		8		ene.	0	0	mod.	ene.	cloudy.
S. S. State of Alabama, N. 45° 52′, W. 38° 02′*	30.16	766.1	76	24.4		nw.			4		2		ne.	3 h'r	3 h'r	mod.	nw.	clear.
S. S. Thingvalla, Copenhagen, Denmark †	29.93?	760.2?	61.7	16.5		sw.			3		4		sw.	0	0			fair.
S. S. Romano, Hull, Eng*†	30.03	762.7				calm			0		5		e.	0	0			fair.
S. S. Salerno, New York, N. Y *†	30.05	763.3	64	17.8		s.			2		9		se.	0.5	13.			raining.
S. S. Oregon, N. 55° 55′, W. 12° 30′	29.93	760.2	53	11.7		w.			2		4		w.			long	wnw.	fair.
S. S. Lake Manitoba, Liverpool, Eng			57	13.9		wnw.			5		4		wnw.	4 h'r	4 h'r			fair.
S. S. Daniel Steinmann, N. 47° 07′ W. 42° 25′*†	30.10	764.5	58	14.4		w.			3		7			0	0	mod.	wsw.	fair.
S. S. Plantyn, N. 50° 35′, W. 6° 52′									4		4		sw.	0	0	mod.	w.	fair.
S. S. Saxon, Philadelphia, Pa †	29.97	761.2				ssw.			1		10?			0	0			fair?
S. S. Britannic, N. 51° 19′, W. 13° 48′†	30.18?	766.6?	59	15.0		w.			3		5		wsw.	2 h'r	2 h'r	long	wnw.	fair.
S. S. Celtic, N. 52° 13′, W. 6° 07′†	30.06	763.5	63	17.2	67	nne.			3		2		n.	5 h'r	5 h'r	sm'h		clear.
S. S. Iowa, N. 51° 32′, W. 19° 02′†	30.12	765.0	58	14.4		ssw.			3		10		ssw.	0	0	mod.	nw.	cloudy.
S. S. Algiers, N. 36° 26′ W. 74° 44′ *†	30.08?	764.0?				ene.			1								wsw.	fair.
S. S. City of Alexandria, Progresso Roads, C. A*†	29.86	758.4	80	26.7		e.			1									d. clouds.
Schr. Arthur Burton, N. 41° 00′, W. 72° 33′ †	30.03	762.7				s.			5		2		s.	0	0	long	se.	hazy.
Schr. Abbie H. Gheen, Philadelphia, Pa †	29.97	761.2	66	18.9		calm			0									clear.
S. S. Antonio Lopez, N. 19° 55′, W. 70° 20′	29.98	761.5	80	26.7	87	se.			4		5			6 h'r	6 h'r	mod.	se.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Aquidneck, N. 34° 17′, W. 72° 47*†	30.10?	764.5?	84	28.9		se.			3		8		wsw.	8 h'r	8 h'r	light	s.	showery
Bg. Alcira, N. 33° 24′ W. 73° 49′	29.98	761.5	81	27.2		ne.			2		6?		ne.	6 h'r	6 h'r	mod.	nne.	clear.?
Bgt. Achsah, N. 19° 47′, W. 60° 03′†	29.93	760.2	82	27.8		ne.			5		5		ne.	1 h'r	1 h'r	mod.	ne.	fair.
Bk. Aureola, N. 21° 16′, W. 26° 32′†	30.05	763.3	82	27.8		ene.			4		0			0	0	mod.	ne.	clear.
Bk. Adelaide, N. 32° 07′, W. 51° 30′*†	30.37?	771.4?				se.			3		1		ese.	0	0	light	se.	clear.
Bg. Belle of the Bay, N. 33° 33′, W. 71° 09′†	29.99	761.7				se.			1		10		se.	24 h'r	24 h'r	r'gh	se.	raining.
S. S. Burswell, N. 44° 29′, W. 31° 07′*†	30.21	767.3	75	23.9		ssw.			2		8		sw.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Cannonbury, N. 12° 30′, W. 58° 50′*†	30.02	762.5				var.			1		6		ne.	2 h'r	2 h'r	light	ne.	fair.
Bk. Celestina, N. 39° 08′ E. 9° 48′	30.06?	763.5?				sw.			0–1		0			0	0	sm'h		clear.
Bk. Childwall, N. 41° 01′, W. 16° 05′*	30.13	765.3	67	19.4	89	n.			3		10		n.			mod.	n.	dense fog.
Schr. C. R. Flint, N. 40° 12′, W. 72° 30′†	30.06	763.5	70	21.1		sw.			2		0			0	0	mod.	sse.	clear.
Bk. Cato, N. 37° 30′ W. 9° 21′†	30.05	763.3				nnw.			3		3		ne.			long	nne.	hazy.
Bk. Don Justo, N. 59° 39′, W. 1° 40′						wnw.			5		8		wnw.	1 h'r	1 h'r	mod.	nw	cloudy.
S. S. State of Nebraska, N. 54° 50′, W. 17° 12′*†	30.00	762.0	56	13.3		ssw.			5		6		var.	0	0	sm'h		fair.
S. S. D. J. Foley, Kingston, Jamaica*†	29.95	760.7	86	30.0	78	ese.			2		3		e.	0	0			clear
Bkt. David A. Preston, N. 45° 06′, W. 64° 14′						ese.			3		10		ese.	0	0			threatening.
S. Dora, N. 45° 34′ W. 39° 53′*†	30.18	766.6	64.4	18.0		nw.			4		4		nnw.	4 h'r	4 h'r	sm'h	nw.	fair.
S. David Stewart, N. 10° 24′ W. 46° 10′			89	31.7		var.			1		5		ene.	4 h'r	4 h'r	long	ne.	
S. E. J. Spicer, Antwerp, Belgium	29.99?	761.7?	58	14.4	100	sw.			3		10		wnw.	2 h'r	2 h'r			raining.
Schr. Edith R. Seward, Doboy Island, Ga†	29.85?	758.2?	76	24.4		nne.			2		4		ne.	0	0			clear
Bk. E. D. Bigelow, N. 28° 44′ W. 92° 40′†	29.95	760.7	89?	30.6?							1		e.	0	0	sm'h		hazy.
Bk. Edmund Phinney, N. 15° 35′ W. 49° 40′†	30.03	762.7				e.			4		9		e.	3 h'r	3 h'r	mod.	e.	cloudy.
Bk. E. L. Pettingill, N. 10° 03′ W. 31° 00′*†	30.05?	763.3?	79	26.1		sw.			3		8		ssw.	12 h'r	12 h'r	mod.	sse.	cloudy.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	30.05	763.3	61	16.1		s.			1		1		calm	0	0			clear.
Bg. George, N. 23° 50′ W. 62° 20′*†	30.08	764.0	81	27.2		ese.			4		2		se.	0	0	mod.	se.	fair.
Bk. Galeon, N. 47° 00′, W. 80 25′†	30.15	765.8	65	18.3		nw.			1–2		9		nw.	light	light		nw.	foggy.
Bk. Grey Eagle, N. 27° 49′ W 52° 15′*†	30.10?	764.5?				ese.			3		2		ese.	0	0	sm'h	sse.	clear.
S. Hedwig, N. 36° 21′ W. 2° 53′	30.09	764.2	77.9	25.5	79	ene.			3		0			0	0	3	e.	
Schr. Isabel Alberto, N. 24° 23′ W. 81° 05′†	29.79	756.7				nne.			3		3		nne.	0	0	light	ne.	fair.
Bkt. Josephine, N. 34° 07′ W 72° 17′†	29.97	761.2	81	27.2	70	ne.			3		2			4 h'r	4 h'r	cross	var.	fair.
Bk. Johanne, N. 59° 03′, E. 3° 54′*†	29.62	752.3	68	20.0		nnw.			1		5		n.	0	0	sm'h		fine.
Schr. John L. Thomas, N 16° 44′ W. 83° 48′*†	29.85	758.2	85	29.4	83	nw.			1		1			½h'r	½h'r	light	ene.	clear.
Schr. Jennie N. Huddell, East Cambridge, Mass†	30.05	763.3	61	16.1	94	nnw.			2		0							foggy.
Bg. Josefa, Bristol, Eng †	30.02	762.5				nw.			2		3		nw.	0	0			fair.
Bk. Kryolith, Ivigtut, Greenland*†	29.72?	754.9?				nw.			1		5		nw.					fair.
Bk. Lady Hincks, N. 39° 13′, W. 23° 20′*†	30.30	769.6							3					0	0			
Bg. L. & W. Armstrong, St. Pierre, Martinique, W.I.†*	30.00	762.0				ene.			1		1		e.	0	0	sm'h		clear.
S. S. Madrid, N. 36° 23′, E. 22° 17′†	29.84?	757.9?	77	25.0	73	wnw.			6		0?			0	0	mod.	wnw.	fair.?
Bk. Mohican, N. 5° 50′ W. 28° 40′	29.84?	757.9?	82	27.8		ssw.			4		3		sse.	0	0	sm'h	se.	clear
Schr. Norena, N. 30° 07′, W. 67° 03*†	30.00	762.0				ese.			3		1		s.	0	0	mod.	sse.	fine.
Bk. Orpheus, N. 58° 11′, W. 21° 18′	29.67	753.6	58	14.4		wsw.			6		4		wnw.	0	0	mod.	wsw.	fair.
Bk. Ottawa, N. 40° 10′ W. 68° 50′	29.97	761.2	69	20.6		e.			2		2			0	0	sm'h		clear.
Schr. Rollin Sanford, Key West, Fla†	29.82	757.4				ne.			2		5		ne.	0	0			fair.
Bg. Rising Sun, N. 20° 52′, W. 67° 27′†	29.90	761.0	85	29.4		ese.			4		1		ese.	0	0	mod.	ese.	clear.
Bgt. Sunlight, Demerara, British Guiana*†	29.91	759.7				se.			2		3		e.	0	0			clear.
Bk. Scud, N. 34° 35′ W. 70° 32′*†	30.03	762.7	82	27.8		s.			1		3		s.	1 h'r	1 h'r	mod.		clear.
Bk. Tuck Sing, N. 20° 55′ W. 82° 03′*†	29.86	758.4				nw.			1		0			2 h'r	2 h'r	sm'h		fine.
S. S. Tower Hill, N. 49° 43′ W. 4° 42′*†	30.30?	769.6?				wsw.			4		5		w.			sm'h		misty.
Schr. Viola Reppard, N. 33° 43′, W. 78° 02′†	30.11?	764.8?	76	24.4		ne.			2		0			0	0	small	se.	clear.
Bgt. Willie, N 9° 55′ W. 30° 25′*†	29.98	761.5	84	28.9		sw.			3		4		sw.	2 h'r	2 h'r	long	s.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Rio de Janeiro, Brazil	29.95	760.7	70	21.1	75	ne.			1		0							misty.
H. M. S. Opal, Elephant Bay, Benguela	29.96	761.0	70	21.1	85	nnw.			1		5	wnw.						d. clouds.
H. M. S. Sylvia, Indian Light, Uruguay	30.25	768.3	47.7	8.7	78	ssw.			3		0				2		ssw.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.26	768.6	51	10.6	72	sw.	9	4.0			0			0	0	sm'h		clear.
U. S. S. Nipsic, Montevideo, Uruguay *	30.23	767.8	51	10.6	72	w.			2		0					sm'h		clear.
S. S. Hevelius, S. 17° 00′, W. 38° 00′*†	30.25	768.3	78	25.6		ene.			4		5		ene.	0	0	sm'h		fair.
Bk. Great Surgeon, S. 18° 22′ W. 30° 57′ *†	30.30	771.1	73	22.8		e.			5		2		e.	1 h'r	1 h'r	short	ese.	clear.
S. Gatherer, S. 11° 00′ W. 34° —′ *	29.98	761.5	78	25.6	73	ese.			4		1		e.	0	0	sm'h	ne.	clear
Bk. Godeffroy, S. 44° 56′ W. 59° 58′	29.77	756.1	42.1	5.6	77	sw.			5		0		sw.	snow	snow	long	sw.	squally.
Bkt. Louise Adelaide, S. 11° 20′ W. 33° 40′†	30.07	763.8	80	26.7		se.			4		3		se.	2 h'r	2 h'r	long	se.	fair.
S. S. Olbers, S. 20° 56′, W. 39° 22′	30.20	767.1	75.4	23.6	86	n.			4		3		n.	0	0	sm'h		clear.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.19	766.8	58	14.4		wsw.			2		4	wsw						d. clouds.
Bg. John Wesley, Rio de Janeiro, Brazil *†	29.99	761.7	74	23.3		calm			0		0			0	0			hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.94	760.5	65	18.3	68	nw.			1		0					sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 27′ E. 126° 33′	29.93	760.2	75	23.9	84	ssw.			1		2							blue sky.
H. M. S. Magpie, N. 5° 50′ E. 118° 07′	29.85	758.2	84.5	29.2	79	ese.			1		10		se.					misty.
H. M. S. Mutine, N. 21° 54′ W. 111° 19′	29.89	759.2	80	26.7		w.			1		2					1	w.	blue sky.
H. P. M. S. Tamega, Macao, China	29.78	756.3	84.2	29.0	85	ne.			2		9			4½h'r	4½h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.96	761.0	77	25.0	91	calm			0		0			0	0			clear.
U. S. S. Essex, Fernandi Island, Yellow Sea	29.95	760.7	74	23.3	100	nw.			1		2					sm'h		clear.
U. S. S. Monocacy, Roze Id, Corea	29.96	761.0	75	23.9	86	wsw.			2		0					sm'h		clear.
U. S. S. Palos, Hong Kong, China	29.79	756.7	82	27.8	79	e.			2		5		e.					fair.
U. S. S. Pensacola, N. 19° 47′, W 169° 50′*	29.93	760.2	80	26.7	74	ene.			4–5		2		ene.	mod.	mod.	mod.	e.	clear.
U. S. S. Richmond, Yokohama, Japan	29.90	759.4	78	25.6	95	calm			0		0			0	0			clear.
U. S. S. Coptic, N. 35° 04′, E. 139° 46′	29.98	761.5	80.0	26.7	80	var.			2		4		sw.	0	0			clear.
S. S. Oceanic, N. 46° 44′, W. 170° 40′	30.22	767.6	53	11.7	100	var.			4		10		e.	0	0	3	var.	overcast.
S. S. Oregon, Columbia River, Oregon†	30.15	765.8	50	13.3	94	calm												foggy.
S. S. Ancon, N. 32° 45′, W. 117° 21′	29.92	760.0	64	17.8	89	se.			3		10					sm'h		overcast
S. S. State of California, N. 46° 10′, W. 124° 10′†	30.03	762.7	59	15.0	88	se.			3		10		se.			sm'h	sw.	dense fog.
S. S. Queen of the Pacific, Portland, Oregon†	30.05	763.3	58	14.4	94	ese.			1		2			0	0			clear.
S. S. Victoria, N. 45° 15′, W. 124° 15′†	30.12?	765.0?	59	15.0	88	s.			3		7		sse.			mod.	wsw.	cloudy
S. S. City of Pekin, N. 44° 14′, W. 139° 05′†	29.90	759.4	63	17.2	100	sw.			6		10		sw.	0	0	mod.	sw.	overcast.
S. S. City of Tokio, N. 34° 05′ E. 136° 51′†	30.04?	763.0?	80	26.7	82	sw.			3		2		sw.	0	0	mod.	wsw.	clear.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.83	757.7	83	28.3	79	ese.			2		7		ese.	0.4	10.	sm'h		cloudy
S. S. Colima, N. 15° 00′, W. 94° 58′	29.88	758.9	82	27.8	75	nnw.			0		3		nw.	0.10	2.5	con.	nw.	cloudy.
S. S. Granada, N. 19° 59′, W. 105° 48′†	29.90	759.4	82	27.8	91	nnw.			1		5?		nw.	1 h'r	1 h'r	light	s.	clear.?
S. S. Armenia, N. 32° 10′ W. 124° 40′*	29.98	761.5	65	18.3	84	n.			2		2		n.	0	0	sm'h	var.	clear.
S. S. Benledi, N. 4° —′ E. 100° —′*	29.87	758.7	84.5	29.2	77	calm			0		5		nw.	1 h'r	1 h'r	sm'h		hazy.
S. Mt. Washington, N. 45° 40′ W. 126° 30′*†	29.97	761.2	63	17.2	90	s.			8		10		s.	4 h'r	4 h'r	h'vy	var.	cloudy.
S. Saint David, N. 42° 08′, E. 162° 43′*†	29.97	761.2	72	22.2	85	wsw.			4		10		var.	1 h'r	1 h'r	cf'd	w.	drizzling.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.96	761.0	79.3	26.3	85	se.			3		8					sm'h		th'nd'rstorm
U. S. S. Hartford, Callao Bay, Peru*	29.94	760.5	61	16.1	94	calm			0		10			0	0			cloudy.
U. S. S. Iroquois, Callao, Peru	30.01	762.2	60	15.6	88	nw.			1		10							foggy.
U. S. S. Lackawanna, Callao, Peru*	29.96	761.0	60	15.6	88	calm			0		10							cloudy.
U. S. S. Onward, Callao, Peru *†	30.10	764.5	59	15.0	88	calm			0		10		s.					cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.17	766.3	58	14.4	94	sse.			1		10							cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	30.17	766.3	50	10.0	72	w.			1	6 c	0	w.						fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. Zealandia, S. 33° 51′, E. 160° 33′	30.06	763.5	60	15.6	88	s.	.....	.....	5	.....	10	.....	.....	.....	.....	light	w.	raining.
Bk. Chas. Stewart, S. 7° 40′, W. 80° 40′†	30.21	767.3	64	17.8	.....	sse.	.....	.....	3	.....	10	.....	se.	0	0	mod.	sse.	cloudy.
S. David Crocket, S. 24° 14′, W. 117° 10′*	30.02	762.5	68	20.0	69	s.	.....	.....	3	.....	9	.....	s.	0	0	long	ssw.	gloomy.
S. Sovereign of the Seas, S. 43° 40′, W. 85° 39′*†	30.65	778.5	45	7.2	68	wsw.	.....	.....	3	.....	10	.....	w.	0	0	mod.	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 14° 52′, E. 50° 18′	30.08	764.0	.....	.....	.....	ese.	.....	.....	3	.....	5	ese.	.....	.....	.....	3	ese.	d clouds.
H. M. S. Euryalus, S. 9° 15′, E. 49° 50′	30.00	762.0	77	25.0	82	e.	.....	.....	3	.....	2	calm	.....	.....	.....	1	e.	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	79	26.1	91	ese.	.....	.....	4	.....	2	sse.	.....	.....	.....	3	sse.	squally.
H. M. S. Woodlark, Bushir, Persia	29.67	753.6	90.5	32.5	77	wnw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	wnw.	misty.
U. S. S. Juniata, Sunda Strait	29.96	761.0	83	28.3	96	ssw.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	hazy.
S. S. Galatia, N. 19° 30′, E. 39° 25′†	29.62	752.3	88	31.1	92	wnw.	.....	.....	4	.....	0	.....	.....	0	0	mod.	wsw.	clear.
Bk. Pilgrim, S. 24° 36′, E. 55° 32′*†	30.30	769.6	.....	.....	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	mod.	se.	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 9, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.8	78.1	25.6	75	s.			1		0			0	0	clear	Roziere.
Algiers			30.00	763.6	77.0	25.0	64	ne.			1		0			0	0	clear	Thève.
La Galle			30.04	763.0	81.0	27.2	66	ssw.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.00	763.4	81.0	27.2	39	n.			2		1			0	0	very fair	Delord.
Saida			30.08	764.0															Pérés.
Tebessa			30.07	763.8	75.9	24.4	33	w.			1		0			0	0	clear	St. Martin.
Geriville					78.8	26.0	8	n.			1		0			0	0	clear	Forfert.
Laghouat			30.09	764.3	85.6	29.8	12	e.			4		0			0	0	clear	Abraham.
Biskra			30.02	762.5	88.5	31.4	25	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.98	761.5	56.5	13.6	52	nne.	10	4.5		1 cs				0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.92	759.9	30.01	762.2	53.0	11.7	68	nne.	5	2.2			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.90	759.5	70.0	21.1	50	s.			2		6			0.445	11.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.11	739.5	29.88	758.9	56.1	13.4	89	w.	3.8	1.7			10			0.720	18.3		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.36	720.4	29.75	755.7	63.3	17.4	74	se.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.68	728.4	30.00	762.1	57.6	14.2	79	w.			3		10			0.307	7.8	gloomy	The Staff.
Lemberg	28.84	732.4	29.80	757.0	59.2	15.1	86	nw.			2		10			0.319	8.1		Dr. T. Stanecki.
Pola	29.82	757.4	29.93	760.2	73.2	22.9	67	sw.			2		4			0	0		I. R.Hydrographic Office.
Szathmar	29.30	744.2	29.75	755.6	63.0	17.2	89	sw.			5		10			0.075	1.9		Joseph Midlinszky, S. J
Szegedin	29.52	749.7	29.76	755.8	58.3	14.6	98	nw.			2		10			0.240	6.1		Karl Stu cel.
Trieste	29.87	758.7	29.97	761.2	70.7	21.5	56	w.			1		3			0	0		Royal Academy.
Vienna	29.25	743.0	29.90	761.0	61.3	16.3	73	w.			2		10			0.130	3.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.90	759.4	30.00	762.0	57.2	14.0	74	s.	15	6.7			6			0.060	1.5	d. clouds	W. Boswell.
Armagh, Observatory	29.77	756.1	30.00	762.0	55.4	13.0	71	ssw.	10	4.5									S. Call.
Bidston, Liverpool Obs'y			30.06	763.5	64.4	18.0	50	sse.	13	5.8			6					d. clouds	John Hartnup.
Bolton, Sharples	29.53	750.0	30.07	763.8	61.6	16.4	64	ssw.	13	5.8			4					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.21	5.3		McLandsborough & Preston
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	64	se.			2		3					d. clouds	Corpl. W. I. Cull, A.H.C
Cardington	30.01	762.2	30.11	764.8	69.0	20.6	52	s.			0.6		0					blue sky	John McLaren.
Chatham, School M. E.	29.98	761.5	30.15	765.8	67.7	19.8	52	calm			0		5			blank	blank	d. clouds	Corpl. G. A.Pickles, R.E.
Falmouth, Observatory	29.85	758.2	30.08	764.0	60.0	15.6	84	se.			2		5					d. clouds	The Staff.
Fort Napier, Natal	27.76	705.1	29.98	761.5	57.0	13.9	69	e.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.90	759.4	29.94	760.5	55	12.8	81	sw.			1		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	74.8	23.8	91	e.			3		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.71	754.6	29.92	760.0	57.5	14.2	74	sw.			3		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.97	761.2	30.14	765.5	64.0	17.8	65	s.			1		2					d. clouds	The Staff.
Guernsey	29.80	756.9	30.10	764.5	61.0	16.1	82	sse.			1		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.11	764.8	30.15	765.8	61.9	16.6	64	ssw.	7	3.1			1					blue sky	The Staff.
Leicester, Museum	29.85	758.2	30.10	764.5	65.2	18.4	54	w.			1		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.92	760.0	30.00	762.0	72.4	22.4	78	nw.			2		3			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.81	757.2	29.86	758.4	82.2	27.9	74	sw.			3		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.91	759.7	30.14	765.5	62.4	16.9	50	calm			0		0					blue sky	The Staff.
Plymouth	30.01	762.2	30.08	764.0	62.5	16.9	74	se.			2		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.80	756.9	29.90	759.4	57.5	14.2	73						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.69	754.1	29.75	755.6	85.4	29.7	53	sw.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.81	757.2	30.09	764.3	66.1	18.9	64	ssw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.01	762.2	30.04	763.0	61.6	16.4	70	sw.			3		7			0.055	1.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.09	764.3	60.2	15.7	65	s.	7	3.1			10					misty	W. C. Carlisle.
Strathfield Turgiss					67.2	19.6	53	sw.			0.5		0					blue sky	Rev.C.H.Griffiths, F.M.S
Truro, Royal Institution	29.98	761.5	30.06	763.5	62	16.7	72	se.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.93	760.2	29.95	760.7	56.6	13.7	87	se.	25	11.2			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.65	753.1	30.04	763.0	73.8	23.2	65	nw.	14.9	6.7		3 c	1 n	w.	nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.92	760.0	29.95	760.7	55	12.8	93	sw.	8	3.6		10 k				0.04	1.0		Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.04	763.0	56	13.3	98	s.	11	4.9			10 n		sw.	0.030	0.8	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.93	760.2	29.99	761.7	54	12.2	93	sw.	4	1.8			10 s		sw.	0.01	0.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.94	760.5	30.14	765.5	42.2	5.7	84	w.			3	0	7 s			0.221	5.6	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.87	758.7	29.92	760.0	53.0	11.7		e.			5		10 n			0.070	1.8	raining	H A. Johnson.
Edmonton, N. W. T	27.48	698.0			35	1.7	54	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.84	757.9	29.87	758.7	47	8.3	93	w.	10	4.5			10 k		calm	0.22	5.6	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.29	744.0	30.13	765.3	43	6.1	76	se.	16	7.2		0	7 k		w.	0	0	thund'r st'm	James Stewart.
Fredericton, N. B	29.91	759.7	29.97	761.2	56.0	13.3	88	se.	10.0	4.5			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B	29.93	760.2	29.99	761.7	54	12.2	93	s.	16	7.2			10 s		s.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.31	744.5	30.46	773.7	36.0	2.2	90	calm	0	0		7 c	0			0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.93	760.2	30.06	763.5	57	13.9	100	calm	0	0			fg			inap.	inap.	dense fog	A. Allison.
Hamilton, Ontario	29.94	760.5	30.34	770.6	43.5	6.4	93	sw.			1	10 cs		sw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.02	762.5	30.37	771.4	40	4.4	82	w.	9	4.0		0	0			0.01	0.3	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.92	760.0	29.95	760.7	60.0	15.6	100	s.			1					0	0	d. clouds	C. H. Rigby.
London, Ontario	29.48	748.8	30.42	772.7	35.8	2.1	100	calm	0	0						0	0	d. clouds	E. B. Reed.
Medicine Hat	27.50	698.5	29.74	755.4	50	10.0	63	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.88	758.9	30.09	764.3	45	7.2	80	w.	16	7.2		5 k	0	nw.		0.29	7.4	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.93	760.2	30.18	766.0	42.1	5.6	91	wnw.				4 ks	0			inap.	inap.		A. McGill, M. A.
Parry Sound, Ontario*	29.69	754.1	30.41	772.4	37	2.8	89	w.	9	4.0		0	0			0.02	0.5	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.61	752.1	30.35	770.9	45.7	7.6	68	calm			0	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.69	754.1	30.41	772.4	39	3.9	100	nw.	6	2.7		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.73	755.1	30.41	772.4	33	0.6	96	nw.	2	0.9		0	2 k		nw.	0	0	clear	M. Payne.
Que Appelle, N. W. T	27.59	700.8	29.85	758.2	43	6.1	76	s.	14	6.3		0	2 s		s.	0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.59	751.6	29.95	760.7	43	6.1	93	sw.	20	8.9			10 n		w.	0.66	16.8	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.82	757.4	30.29	769.4	40	4.4	86	nw.	8	3.6		0	5 s		nw.	0.05	1.3	fair	W. H. McIntyre.
St. Andrews, N. B	29.91	759.7	29.96	761.0	54	12.2	93	s.	4	1.8		2 k	5 ks	s.		0	0	fair	
St. John, N. B	29.86	758.4	30.01	762.2	53.2	11.8	100	s.	12	5.4		10 k		n.		inap.	inap.	overcast	G. Hutchinson.
Saint John's, N. F	29.96	761.0	30.21	767.3	55	12.8	93	se.			0		10 n			0	0	cloudy	The Commandant.
Saugeen, Ontario*	29.67	753.6	30.41	772.4	44	6.7	60	n.	17	7.6			10 s			0.03	0.8	cloudy	
Stratford, Ontario	29.10	739.1	30.44	773.2	36.0	2.2	96	nw.	30	13.4		0	0			0	0	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F			30.08	764.0	53.0	12.0		e.			2					0.28	7.1		The Commandant.
S. W. Point, Anticosti	29.90	759.4	29.93	760.2	52	11.1	93	se.	5	2.2			10 n		sw.	0	0	cloudy	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Sydney, C. B.	30.00	762.0	30.06	763.5	55	12.8	96	ne.	1	0.4			10 n			0.01	0.3	light rain	T. C. Hill, C. E.
Toronto, Ontario*	30.02	762.5	30.41	772.4	40	4.4	96	nw.	5	2.2		0	0			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.36	745.7	30.45	773.4	47.6	8.7	90	w.	5.5	2.5		1 k	0			0	0	blue sky	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.99	761.7	30.05	763.3	55	12.8	93	s.	8	3.6		5 k	5 s	w.	s.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.05	763.3	30.08	764.0	63.0	17.2	78	se.	5.4	2.4			10 k			0.020	0.5	hazy	I Garfelt.
Springbok Fontein	27.86	707.6			65	18.3	59									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	29.92	760.0	30.00	762.0	50.9	10.5	94	sw.			2	8 cs	0	n.				fair	Samuel Redolez.
Iquique	30.02	762.5	30.05	763 2	57.7	14.3	69	se.			3							cloudy	Rafael Moreno.
Niebla	29.93	760.1	30.03	762.8	42.4	5.8	73	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.97	761.2	30.06	763.4	55.8	13.2	83	n.			6		8 nk		sw.			cloudy	Manuel Tobar.
Punta Corona	30.26	768.6	30.45	773.4				w.			1	6 ck		sw.		0.063	1.6	fair	Ignacio Ayala.
Valparaiso	30.05	763.3	30.19	766.9	50.0	10.0	86	s.			0							clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.19	639.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.87	758.7	29.90	759.4	75.7	24.3	90	ne.	6.3	2.8		c	6			0.075	1.9	cloudy	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.00	762.1	30.05	763.3	58.5	14.7	73	calm	0	0			9						Oversergent Fischer.
Fanoe	30.06	763.5	30.08	764.0	63.0	17.2	70	w.	9	4			8						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.01	736.9	29.06	738.0	45.3	7.4	90	se.	13	6			8						A. O. Thoriacius.
Thorshavn	29.70	754.3	29.72	754.9	53.2	11.8	83	sw.	16	7			5						Overloerer Bergh.
Vestervig	29.98	761.4	30.07	763.7	58.5	14.7	72	nnw.	4	2			1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.72	754.9			88.2	31.2		ne.	4.5	2.0			0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.53	750.0	30.17	766.2	69.6	20.9	67	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.76	755.9	30.27	768.8	59.0	15	89	ne.			1		n		sw.	0	0		M. Nicot, Director.
Avignon, Normal School	29.92	760.0	30.00	762.0	75.2	24	46	n.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.61	752.1	30.16	766.0	63.1	17.3	49	ese.			2		2 k		ne.	0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.91	759.7	30.17	766.4	64.0	17.8	60	ese.			1		2		e.	0.024	0.6	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	29.20	741.6	30.09	764.3	64.8	18.2	47	wnw.								0.181	4.6		M. Gobin, Director.
Bordeaux, Observatory	29.86	758.5	30.12	765.1	64.6	18.1	71	ene.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.50	749.4	30.05	763.2	66.2	19	82	n.			1				n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.88	759.0	30.13	765.2	65.8	18.8	73	sse.			1		9		sse.	0.047	1.2		M. de Kermarée, Dir.
Caen, Normal School	30.06	763.5	30.14	765.6	66.9	19.4	68	s.			1		2		s.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.71	754.5	30.02	762.5	66.9	19.4	87	calm			0		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.65	753.2	30.15	765.9	65.5	18.6	42	ene.			2		5		ne.	0.04	1.	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.78	731.1	30.12	765.1	62.6	17.0	63	n.			1		5			0.024	0.6		M. Alluard, Director.
Cluny, Normal School	29.29	743.9	30.12	765.0	67.3	19.6	49	ne.			2				ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.32	744.8	30.17	766.4	61.5	16.4	54	w.			1		5 kn	w.	w.	0.12	3.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	29.98	761.6	68.0	20	55	n.			4		0			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.87	733.2	29.96	761.0	77.4	25.2	22	w.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.30	744.1	30.06	763.4	69.1	20.6	54	nw.			6		k		nne.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.56	725.4	30.10	764.5	64.4	18	57	e.			1	5 ck		w.		0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.84	757.8	30.11	764.8	64.4	18	71	sw.			2		5		sw.	0.138	3.5	cloudy	M. Olffrault, Director.
Lescar, Normal School	29.51	749.6	30.14	765.6	70.2	21.2	63	sw.			1		5 kn			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.02	762.6	30.13	765.2	69.1	20.6	69	se.			1		8	calm	se.	0.016	0.4	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.2	30.11	764.7	63.3	17.4	52	nnw.			1		5 kn		n.	0	0	cloudy	M. André, Director
Mans, Normal School	29.87	758.8	30.18	766.6	62.6	17		sse.			1		8 n		se.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.69	754.2	29.96	760.9	74.7	23.7	47	w.			1		0			0	0		M. Stephan, Director.
Montlouis	24.99	634.7	29.83	757.7	63.0	17.2	41	wsw.	11.2	5.0			7	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.90	759.5	30.01	762.3	77.0	25	54	nw.			1		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	30.00	762.0	30.16	766.0	69.4	20.8	69	ese.			0–1		9 k; kn		sse.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.93	760.3	30.04	763.0	79.0	26.1	29	e.	1.8	0.8			1	w.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.6			50.7	10.4							5		nw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.01	730.8	30.04	763.0	71.6	22	55	ne.			1		2 k	ne.	ne.	0	0	slightly cl'd	M. Tardieu.
Puy de Dôme Obs'y, Summit	25.28	642.2			45.1	7.3	93	ne.			2		8			0.063	1.6		M. Allnard.
Rochefort, Naval Obs'y	30.09	764.3	30.12	765.1	68.0	20.0	71	calm			0		5			0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.90	759.5	30.12	765.0	66.0	18.9	88	se.			1		5	se.	se	0.12	3.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.95	709.9	30.10	764.6	54.3	12.4	80						5		se.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.13	765.4	30.18	766.6	64.8	18.2	63	wsw.			2		5	w.		0.280	7.1	cloudy	M. Moullilot, Dir.
Saint Maur, Observatory	30.02	762.4	30.18	766.6	65.5	18.6	56	ene.			1		4		e.	0.051	1.3		M. Renou, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	72.1	22.3	50	n.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.98	761.6	30.16	766.1	66.2	19.0	72	w.			1		5	e.	se.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.69	754.0	30.18	766.5	64.4	18.0	53	se.			2		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.97	761.3	30.11	764.9	70.3	21.3	63	s.	7.8	3.5		c; ck	7 k	w.	e.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.65	727.7	30.09	764.3	56.5	13.6	56	nw			6		9	nw.		0.028	0.7		Prof. Juedt.
Bamberg	29.21	741.8	30.05	763.2	57.2	14.0	67	nw.			1		9 k		nw.	0.189	4.8	raining	Prof. Dr. Hoh.
Berlin	29.87	758.6	30.01	762.2	59.4	15.2	74	w.			1		10			0.012	0.3		Dr. Lensch.
Breslau	29.44	747.7	29 97	761.2	61.3	16.3	51	nw.			3		10			0	0		Royal University Obs'y.
Carlsruhe	29.69	754.2	30.15	765.8	60.6	15 9	61	ne.			1		9	nw.		0.020	0.5	raining	Albert Senz.
Cassel	29.37	745.9	30.08	764.0	55.0	12.8	78	n.			5		6	n.		0.181	4.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.3	30.10	764.4	64.4	18.0	53	w.			1		7			0.106	2.7		Physical Society.
Friedrichshafen	28.71	729.2	30.10	764.5	64.6	18.1	62	ssw.			2		4	w.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	29.99	761 8	30.08	764.1	59.0	15.0	68	n.			3		7			0.102	2.6		E. Preiler.
Kiel	30.06	763.4	30.07	763 8	58.5	14.7	70	nne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.60	751.7	30.01	762.3	58.6	14.8	70	nw.			2		9	nnw.		0	0		H. Leppig, Asst.
Magdeburg	29.84	757.8	30.02	762.6	55.9	13.3	88	nw.			2		10	nw.		0.201	5.1		Weather Observatory.
Memel	29.90	759.4	29.95	760.6	58.6	14.8	97	ne.			2		10 s					raining	Issermann.
Munich	28.26	717.8	30.13	765.3	55.2	12.9	80	sw.			4		9	w.		0.185	4.7		Central Station.
Neufahrwasser	29.93	760.2	29.95	760 6	56.7	13.7	82	n.			4		10			0.252	6.4	raining	A. Lothes.
Neustadt, Palatinate	29.56	750.9	30.09	764.3	63.7	17.6	45	w.			2		8	w.		0	0		Dicknether.
Stuttgart	29.16	740.7	30.05	763.3	59.0	15.0	58	n.			1		3	n.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	30.02	762 4	30.04	763.0	57 9	14.4	83	nne.			1		3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.47	748.6	29.84	758.0	81.9	27.7		sw.			1.5		2			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.62	752.4	29.67	753.6	83.6	28.7	77	wsw.	26.0	11.6			7	wsw.	wsw.	0	0	d. clouds	
Deesa	29.18	741.1	29.54	750.4	80.0	30.0	56	wsw.	16.0	7.2			7	sw.		0	0	d. clouds	
Bombay	29.78	756.3	29.81	757.2	79.1	26.2	87	w.	16.0	7.2			10		w.	0.02	0.5	overcast	
Poona, Yarrowda	27.96	710.1	29.82	757.5	74.5	23.6	77	w.	20.0	8.9			10			0.01	0.3	overcast	
Trichinopoly	29.56	750.8	29.83	757.7	94.5	34.7	37	w.	0.6	0.3			6			0	0	d. clouds	
Bellary	28.29	718.6	29.74	755.4	85.8	29.9	47	w.					7			0	0	d. clouds	
Belgaum	27.29	693.1	29.86	758.4	68.8	20.4	92	wsw.	12.0	5.4			10	w.		0.09	2.3	d. clouds	
Lahore	28.87	733.2	29.59	751.7	87.5	30.8	76	calm	0	0			4			1.20	30.5	d. clouds	
Roorkee	28.74	730.0	29.63	752.7	77.8	25.4	94	calm	5.0	2.2			10	s.		0.28	7.1	overcast	
Agra	29.03	737.3	29.58	751.2	91.2	32.9	62	ne.					4		s.	0	0	d. clouds	
Nagpur	28.56	725.5	29.60	751.9	77.5	25.3	82	wnw.	25.0	11.2			10		w.	0.42	10.7	overcast	
Jubbulpore	28.22	716.6	29.57	751.0	76.6	24.8	98	sse.	6.0	2.7			10		se.	4.29	109.0	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.19	741.5	29.56	750.8	90.1	32.3	62	calm	0	0			0			0	0	blue sky	
Allahabad	29.24	742.8	29.55	750.6	86.3	30.2	74	ne.	2.0	0.9			1			0	0	d. clouds	
Patna	29.41	747.0	29.59	751.6	84.8	29.3	78	e.	7.6	3.4			4	e.	e.	0.42	10.7	d. clouds	
Hazaribagh	27.59	700.8	29.58	751.4	78.0	25.6	87	ese.	9.1	4.0			10		ese.	0.01	0.3	drizzling	
Cuttack	29.52	749.9	29.60	751.9	84.0	28.9	82	calm	0	0			8			0.21	5.3	d. clouds	
Calcutta, Alipore	29.58	751.4	29.60	751.9	81.5	27.5	87	s.	5.0	2.2			6		se.	0.09	2.3	d. clouds	
Dhubri	29.53	749.9	29.64	752.9	83.3	28.5	83	calm	1.7	0.8			6		ene.	0.05	1.3	d. clouds	
Chittagong	29.61	752.2	29.70	754.4	78.9	26.1	90	se.	8.1	3.6			8		se.	0	0	d. clouds	
Sibsagar	29.32	744.6	29.65	753.0	86.6	30.3	79	sw.	2.0	0.9			4			0.51	13.0		
Jeypore	28.22	716.8	29.65	753.1	80.6	27.0	79	sw.	3.2	1.4			10		wsw.	0.03	0.8	overcast	
Zanzibar	30.01	762.2			80.2	26.8	69	calm	1.5	0.7			8		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.54	750.3	29.94	760.4	73.2	22.9	42	sw.	0.7	0.3			3			0	0		Prof. Giovanni Clodig.
Milan	29.44	747.8	29.94	760.5	71.8	22.1	53	sse.	2.5	1.1			1			0	0		Prof. G. V. Schiapparelli
Padua	29.82	757.3	29.92	760.0	72.3	22.4	50	ssw.	1.3	0.6			3	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.8	29.97	761.1	71.6	22.0	45	ne.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Genoa	29.78	756.4	29.97	761.1	72.1	22.3	59	sw.	4.3	1.9			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	29.93	760.3	68.0	20.0	52	nw.			6		0			0	0		Prof. D. C. Bruno.
Pesaro	29.88	758.9	29.93	760.1	74.5	23.6	54	e.	9.4	4.2			1	nw.		0.020	0.5		Prof. Luigi Guidi.
Florence	29.69	754.2	29.94	760.5	71.6	22.0	57	w.			2		2			0	0		Prof. Costantino Pittei.
Leghorn	29.79	756.7	29.87	758.8	71.4	21.9	62	w.	0	0			1			0	0		Prof. P. Monte.
Rome	29.78	756.3	29.95	760.6	78.1	25.6	29	nw.	0.7	0.3			0			0	0		Prof. P. Tacchini.
Lecce	29.70	754.3	29.94	760.4	72.1	22.3	42	nnw.	23.[illegible]	10.6			2			0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.96	760.9	77.4	25.2	62	w.	3.1	1.4			4	nw		0	0		Prof. D. Conti.
Cagliari	29.76	756.0	29.95	760.8	78.1	25.6	39	w.			2		2			0	0		Prof. A. Pacinotti.
Palermo	29.73	755.1	29.97	761.2	80.2	26.8	39	wnw.	3.8	1.7			2	wnw.		0	0		Prof. G. Cacciatore.
Syracuse	29.88	759.0	29.93	760.1	77.0	25.0	57	sw.	3.1	1.4			3	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	747.9	29.95	760.8	73.6	23.1	64	wsw.	0.7	0.3			5	ssw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.11	764.7	30.15	765.7	55.8	13.2	94	n.			2	2c;cs	0	n.		0.016	0.4	clear	H. Hattori.
Awomori	30.10	764.5	30.14	765.5	53.6	12.0	86	s.	3.8	1.7		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.02	762.5	30.05	763.2	78.0	25.6	88	s.			2	3 ck	4s;ks		se.	0	0	fair	Sekigawa & Yamazaki.
Kagoshima	29.92	759.8	29.93	760.1	79.5	26.4	79	ene.			4		10 n			0.020	0.5	light rain	G. Miyanoanza.
Kanazawa	29.94	760.5	30.04	763.0	71.1	21.7	77	ene.	1.2	0.5		0	1 ck			0.010	0.2	fair	S. Endo.
Kioto	29.83	757.8	30.01	762.2	76.1	24.5	76	nnw.	0.7	0.3		1 ck	6s;ck			0	0	fair	M. Tojima.
Kochi	30.00	762.0	30.02	762.5	78.0	25.6	84	sw.	2.7	1.2		1 ck;c	1 s	nw.	nw.	0	0	clear	K. Kusunose.
Mizasaka	29.96	760.9	29.98	761.6	79.0	26.1	90	ene.			2		10 s		e.	0.059	1.5	overcast	K. Masusaki.
Miyako	30.04	762.9	30.15	765.7	61.4	16.3	91	w.	0.4	0.2		9 c	0			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.75	755.6	29.94	760.5	79.8	26.6	85	n.	2.1	0.9		0	8ks;s		s.	0.005	0.1	cloudy	S. Takehayasu.
Niigata	30.04	763.0	30.07	763.8	70.4	21.3	73	ne.	2.2	1.0		0	8 ks		n.	0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.10	764.5	30.11	764.9	66.6	19.2	79	ne.	5.3	2.3		3 ck	4 ks	w.		0.004	0.1	fair	Yoshino & Midzushina.
Numazu	30.04	763.0	30.07	763.9	71.2	21.8	83	se.			4		10n;ks		se.	0.512	13.0	raining	K. Kaneda.
Osaka	29.99	761.7	30.01	762.1	76.8	24.9	75	n.	7.9	3.5			10s;ck			0	0	cloudy	H. Omura.
Sakai	30.01	762.2	30.02	762.4	75.8	24.3	69	ne.			4		10 ks		e.	0.047	1.2	cloudy	Yamawchi & Sakamoto.
Shimonoseki	29.84	758.0	29.99	761.7	76.2	24.6	87	calm			0	7 cs	0			0	0	fair	S. Sakaio.
Tokei Obs'y, Yeddo	30.05	763.3	30.13	765.2	61.2	16.2	100	nnw.	10.7	4.7			10 n			1.585	40.3	raining	The Staff.
Wakayama	29.94	760.5	29.99	761.8	80.2	26.8	72	sw.	7.0	3.1		4 ck	6 ck	w.	s.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.95	760.7	30.14	765.5	73.8	23.2	67	wsw.	8.0	3.6		0	2 k		e.	0	0	clear	The Staff.
MEXICAN.																			
Leon	24.30	617.2	29.94	760.5	60.8	16.0	92	wnw.	0.9	0.4		2 c	8 ck		e.	0.150	3.8	overcast	Prof. M. Leal.
Mazatlan																			F. Quijano, C. E.
Sub-series.																			
Altata					82	27.8	88	se.			1	0	7 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.18	766.5	30.18	766.5	64.4	18.0		wsw.			1					0.492	12.5		
Groningen	30.06	763.5	30.11	764.9	57.4	14.1		n.			1					0.520	13.2		
Helder	30.13	765.4	30.13	765.4	59.0	15.0		nw.			2					0	0		
Hellevoetsluis	30.16	766.0	30.16	766.0	64.2	17.9	60	nw.			2					0	0		
Utrecht	30.10	764.5	30.15	765.7	62.1	16.7	66	nw.			2		5			0.024	0.6	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.7			82.0	27.8	74	nne.	0	0			10			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.00	762.1	30.07	763.7	52.9	11.6	100	ssw.	7.8	3.5			5			0.039	1.0		
Brono	29.95	760.8	29.99	761.8	55.0	12.8	73	sw.			6		7			0.087	2.2		
Christiania	29.90	759.4	30.04	763.0	62.4	16.9	72	sw.	4	2			2			0.008	0.2		
Gjæsvær	29.77	756.1	29.79	756.7	47.8	8.8		wsw.			9		10						
Lodingen	29.91	759.8	29.96	761.0	50.0	10.0	63	wsw.			5		8			0	0		
PORTUGUESE.																			
Angra, Azores					71.1	21.7	84	w.	8.7	3.9			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.00	761.9	30.08	764.1	75.2	24.0	61	sw.	3.1	1.4			7			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.69	754.2	30.02	762.4	77.5	25.3	53	ssw.	4.9	2.2			0			0	0		The Staff.
Ponta Delgada, Azores	30.22	767.6	30.29	769.4	73.8	23.2	70	ne.	6.3	2.8			4			0	0		
Saint Paul de Loando	29.81	757.1	30.01	762.3	74.3	23.5	76	nne.			2		7			0	0		
San Salvador, Congo	28.13	714.6	29.98	761.5	74.7	23.7	58	wsw.			1		10						
Serra da Estrella	25.42	645.6	29.94	760.5	71.1	21.7	33	ene.	3.1	1.4			0			0	0		
RUSSIAN.																			
Akmolinski	28.98	736.1	30.03	762.8	65.1	18.4	35	ne.	20	9		0	8 k			0	0		Major K. Lasarew.
Archangel	30.12	765.1	30.14	765.6	57.0	13.9	90	w.	13	6			10			0.205	5.2	thund'r stm'	Capt. Sselliwerstow.
Ashurada	29.97	761.3	29.88	758.9	83.3	28.5	64	wnw.	9	4		0	3 k			0	0		
Astrakhan	30.17	766.3	30.10	764.5	72.3	22.4	52	ese.	16	7		0	0			0	0		Capt. Wisganow.
Baku	29.94	760.5	29.89	759.3	81.3	27.4	66	ese.	13	6		0	1 k			0	0		
Barnaul	29.66	753.3	30.15	765.9	57.6	14.2	53	calm	0	0			6			0	0		Meteorological Obs'y
Bielosersk	29.76	756.0	30.21	767.2	82.0	27.8	55	sse.	9	4		7 c	0			0	0	solar corona	
Dorpat	29.75	755.6	29.98	761.5	73.8	23.2	67	sse.	7	3		10 c	0			blank	blank		Observatory.
Ekaterinburg	29.47	748.6	30.44	773.2	55.9	13.3	62	calm	0	0		ck	5 s			blank	blank		Meteorological Obs'y.
Elisawetgrad	29.45	748.0	29.87	758.7	80.0	30.0	19	se.	34	15		4 c	0			0	0		
Irkutsk	28.43	722.1	30.09	764.2	45.1	7.3	88	calm			0		9			0.008	0.2		
Kasalinsk					69.4	20.8	33	n.			3	0	0						
Kasan	30.13	765.4	30.40	772.1	69.1	20.6	41	ese.	7	3		0	1 k			0	0		Observatory.
Kem	30.05	763.2	30.10	764.5	60.3	15.7	83	ssw.	9	4		0	9 ks			0.339	8.6		
Kertch	29.77	756.1	29.79	756.7	79.9	26.6	69	e.	9	4		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.28	743.7	29.87	758.8	81.7	27.6	23	e.	11	5		0	0			0	0		Observatory.
Koslov	29.73	755.2	30.22	767.6	73.9	23.3	41	e.	13	6		0	0			0	0		
Libau	29.90	759.5	29.93	760.1	56.5	13.6	92	nne.			3		10			0.346	8.8		E. Quaas.
Lugan	29.87	758.0	30.00	763.6	79.3	26.3	24	ene.	22	10			0			0	0		Meteorological Obs'y.
Moscow	29.79	756.6	30.23	767.9	81.3	27.4	32	wnw.	4	2		0	3 ks			0	0		Meteorological Obs'y
Nikolaiev	29.72	754.9	29.79	756.7	87.8	31.0	27	ene.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					44.4	6.9	87	calm	0	0		0	1 s						Iwanow.
Pekin, China	29.86	758.4	30.00	762.0	63.1	17.3	92	calm	0	0			9 n			0.008	0.2		Physical Observatory.
Petro-Alexandrovsk	29.60	751.9	29.94	760.4	76.5	24.7	23	nw.	2	1		0	0			0	0		
Petrozavodsk	29.87	758.7	30.06	763.5	77.7	25.4	50	ssw.	11	5		3 cs	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.35	745.4	29.82	757.4	79.3	26.3	38	se	36	16		4 cs	0			0	0		
Poti	29.67	753.5	29.70	754.3	81.9	27.7	75	sw.	4	2		0	0			0	0		
St. Petersburg	30.02	762.5	30.04	763.1	78.3	25.7	49	s.	16	7		3 c;cs	0			0.083	2.1		Central Physical Obs'y.
Samarkand	27.48	698.1	29.84	757.9	75.6	24.2	22	w.	7.8	3.5		1 ck	0			0	0		
Semipalatinsk	29.42	747.2	30.07	763.7	61.7	16.5	33	nne.	16	7						0	0		Major Lasarew
Sevastopol	29.51	749.6	29.71	754.7	86.9	30.5	32	s.	20	9		0	3 s			blank	blank		
Staroi Bykhov	29.50	749.4	30.03	762.7	81.7	27.6	66	se.	29	13		0	0			0	0		
Tashkend Laboratory	28.18	715.8	29.75	755.6	82.4	28.0	37	calm	0	0		0	2 k			0	0		Terch, A. M
Tiflis	28.47	723.2	29.80	757.0	85.5	29.7	28	se.	2	1		0	0			0	0		Physical Observatory.
Vernoe	27.29	693.1	29.68	753.9	70.9	21.6	39	calm	0	0		0	0			0	0		
Viatka	29.84	758.0	30.47	773.8	66.9	19.4	55	sw.	2	1			0			0	0		
Warsaw	29.38	746.3	29.80	756.9	57.7	14.3	95	nw.	9	4			10 n			0.075	1.9	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.94	760.5	30.23	767.9	46.6	8.1	67	w.	4	2			2			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.94	760.4	30.03	762.8	77.7	25.4	66	s.	8.3	3.7		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.04	762.9	30.10	764.4	77.7	25.4	56	se.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.13	689.2	29.96	761.0	78.1	25.6	35	ne.	4.3	1.9			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.2	29.93	760.2	88.5	31.4	29	s.	5.6	2.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.89	759.2	30.03	762.7	84.9	29.4	65	s.	4.3	1.9		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.30	744.3	30.06	763.6	60.8	16.0	90	n.	5.6	2.5		10 k	6 k	w.	nw.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.13	740.0	30.00	762.0	73.2	22.9	60	ne.	10.5	4.7			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.83	757.7	29.89	759.3	77.4	25.2	88	s.	4.5	2.0		1 c;cs	k	w.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.9	29.86	758.4	80.4	26.9	84	s.	17.6	7.9		4 ck	5 kn		sw.	0.039	1.0	foggy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.6	30.04	763.0	80.6	27.0	54	ssw.	8.2	3.7		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	29.93	760.3	30.02	762.6	79.5	26.4	83	calm	0	0		2 s	3 k	e.	se.	0.008	0.2		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.99	761.8	30.03	762.8	53.6	12.0	84	sw.			4		10			0	0		
Umea	30.00	762.0	30.05	763.3	55.0	12.8	91	sw.			4		6			0	0		
Hernosand	29.93	760.1	29.98	761.4	59.4	15.2	72	ssw.			4		3			0.126	3.2		
Stockholm	29.87	758.8	30.05	763.3	61.5	16.4	60	e.			2		10			0.051	1.3		
Wisby	29.91	759.7	29.97	761.2	58.3	14.6	83	ne.			4		10			0	0		
Sub-series.																			
Upsala	29.95	760.8	30.04	763.0	59.9	15.5	69	sse.	3.1	1.4			9			0.031	0.8		H. H. Hildebrandesson.
Swiss.																			
Geneva	28.68	728.5	30.08	764.0	63.7	17.6	66	nne.			4		3			0	0		The Observatory.
Turkish.																			
Constantinople			29.80	757.0	79.0	26.1	60	e.	9	4.0			6		ne.	1.024	26.0		The Observatory.
Valona			30.08?	764.17	71.2	21.8		nw.			1		2			0.12	3.	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.4	86.9	30.5	57	sw.			2		3 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.76	679.7			61	16.1	90	calm			0		10 n		w.	1.7	27.2	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.13	765.3	30.21	767.3	51	10.6	66	nw.	6	2.7		0	8 k		nw.	0.28	7.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.80	757.9	30.44	773.2	39	3.9	82	nw.	5	2.2		9 k	0	nw.		inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.94	760.5	51	10.6	74	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.07	687.6	29.92	760.0	54	12.2	69	sw.	14	6.3		0	5 s		sw.	inap.	inap.	fair	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.09	764.3	63.0	17.2	90	n.	6	2.7		4 c	0			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.21	767.3	30.22	767.6	52	11.1	72	n.	14	6.3			10 s		nw.	inap.	inap.	cloudy	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	67.0	19.4	84	calm	0	0		2 c	hz.	w.		0	0	clear	D. J. Young.
Baltimore, Maryland	30.26	768.6	30.31	769.9	52	11.1	66	n.	8	3.6		0	0			0.06	1.5	clear	Geo. W. Fisher.
Barnegat City, New Jersey	30.18	766.6	30.20	767.1	51.0	10.6	72	n.	20	8.9		3 ck	4 k	nw.	nw.	0	0	clearing	G. A. Hill.
Behring Id., Behring Sea	29.04	737.1	29.66	738.1	43.7	6.5	99	n.	26	11.6			10 n			0.11	2.8	light rain	Geo. Chernick.
Bennett, Fort, Dakota	28.46	722.9	30.05	763.3	49.0	9.4	66	se.	12	5.4		2 c	3 s	se.	se.	0	0	fair	A. Pritchard
Benton, Fort, Montana	27.16	689.9	30.00	762.0	61	16.1	52	calm	0	0			10 s		sw.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.01	762.2	47	8.3	66	se.	6	2.7		5 c	0	sw.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.11	764.8	30.14	765.5	51.5	10.8	69	nw.	23	10.3			10 s		n.	0.02	0.5	cloudy	J. T. Elker.
Boise City, Idaho	27.22	691.4	29.99	761.7	50	10.0	66	nw.	1	0.4		5 k	0			0	0	fair	J. Kenealy.
Boston, Massachusetts	29.93	760.2	30.08	764.0	51.0	10.6	66	nw.	14	6.3		0	8 s		nw.	0.05	1.3	cloudy	O. B. Colby.
Brownsville, Texas	29.92	760.0	29.98	761.5	74.0	23.3	97	calm	0	0			10 s		n.	0.10	2.5	threatening	E. C. Imlay.
Buffalo, New York	29.02	752.3	30.35	770.9	43.4	6.3	85	w.	6	2.7		1 k	0	nw.		0.05	1.3	clear	Wm. Finn.
Buford, Fort, Dakota	27.93	709.4	29.91	759.7	52	11.1	69	ne.	7	3.1		0	3 s			0	0	clear	A. Schneider.
Cairo, Illinois	29.92	760.0	30.32	770.1	49.2	9.6	73	ne.	10	4.5		0	0			inap.	inap.	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.68	753.9	29.88	758.9	57.8	14.3	98	s.	26	11.6			fg.			0.87	22.1	dense fog	O. D. Stewart.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	62.0	16.7	56	n.	36	16.1			10 s		n.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.22	767.6	30.25	768.3	53.0	11.7	66	n.	28	12.5		0	5 s		nw.	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.30	744.2	29.98	761.5	61	16.1	93	n.			1		10 ks		n.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	29.91	759.7	29.93	760.2	73	22.8	84	n.	9	4.0		2 c	0	e.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.94	760.5	29.99	761.7	72.0	22.2	84	n.	8	3.6		4 c	4 s		n.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.11	764.8	66.0	18.9	73	ne.	11	4.9		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.18	766.6	61.0	16.1	84	n.	13	5.8			10 s		n.	0	0	cloudy	B. L. Gouldinz.
Cheyenne, Wyoming	24.10	612.1	29.96	761.0	51.0	10.6	74	sw.	2	0.9			10 s			0.09	2.3	cloudy	E. McGovern.
Chicago, Illinois	29.75	755.6	30.44	773.2	50.0	10.0	58	ne.	8	3.6		0	8 ks		e.	0.07	1.8	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.21	767.3	30.23	767.8	56	13.3	80	n.	24	10.7			10 ks		n.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.74	755.4	30.39	771.9	47.0	8.3	86	ne.	4	1.8		0	0			0.09	2.3	clear	L. Dunne.
Cleveland, Ohio	29.65	753.1	30.37	771.4	51.5	10.8	59	ne.	10	4.5			10 k		ne.	0.02	0.5	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.54	750.3	30.38	771.6	42	5.6	73	nw.	3	1.3		0	0			0.03	0.8	clear	D. Cuthbertson.
Concho, Fort, Texas	28.20	716.3	30.10	764.5	62.2	16.8	84	ne.	8	3.6		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T.	26.82	681.2	29.94	760.5	51	10.6	93	w.	4	1.8		0	0			inap.	inap.	clear	T. Gibson.
Davenport, Iowa	29.78	756.4	30.43	772.9	44	6.7	68	ne.	6	2.7		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.99	761.7	58	14.4	77	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	30.00	762.0	63	17.2	63	sw.	3	1.3			10 s			inap.	inap.	cloudy	D. Moore.
Deadwood, Dakota	25.38	644.6	29.94	760.5	50	10.0	86	sw.	1	0.4		0	5 s		w.	0	0	fair	F. Des Willson.
Delaware Breakwater, Del	30.22	767.6	30.24	768.1	57	13.9	93	n.	38	17.0			10 n		n.	inap.	inap.	light rain	T. S. Townsend.
Denver, Colorado	24.79	629.7	29.90	759.4	51.4	10.8	78	s.	1	0.4		0	5 s			0	0	fair	F. M. Neal.
Des Moines, Iowa	29.53	750.0	30.42	772.7	41	5.0	73	e.	4	1.8		3 cs	0	n.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.72	754.9	30.41	772.4	39.0	3.9	82	w.	8	3.6		0	0			inap.	inap.	clear	E. R. Brace.
Dodge City, Kansas	27.61	701.3	30.16	766.1	49	9.4	93	se.	13	5.8			10 s			0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.75	755.6	30.45	773.4	37.8	3.2	86	se.	1	0.4			fg.			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.68	753.9	30.42	772.7	42.5	5.8	74	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eastport, Maine	29.92	760.0	29.99	761.7	55.0	12.8	86	s.	10	4.5			10 s		sw.	0	0	cloudy	D. C. Murray.
Elliott, Fort, Texas	27.43	696.7	30.12	765.0	54	12.2	74	calm	0	0			fg.			0	0	dense fog	J. C. Rickli.
El Paso, Texas	26.40	670.5	30.06	763.5	62.0	16.7	84	calm	0	0			10 s		e.	0.18	4.6	cloudy	J. O'Bowu.
Erie, Pennsylvania	29.67	753.6	30.38	771.6	48	8.9	71	n.	10	4.5		0	6 k		n.	0.01	0.3	fair	C. A. Shaw.
Escanaba, Michigan	29.82	757.4	30.48	774.2	35.5	1.9	83	w.	3	1.3		0	0			0	0	clear	George Heathcote.
Galveston, Texas	29.99	761.7	30.03	762.7	75	23.9	85	ne.	8	3.6		3 cs	hz.			0.75	19.0	dense haze	E. O'C. Macnerney.
Grand Haven, Michigan	29.80	756.9	30.46	773.7	40.0	4.4	82	ne.	5	2.2		0	0			0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.28	642.1	29.88	758.9	69.6	20.9	53	w.	12	5.4		0	0			inap.	inap.	clear	Chas. A. Read.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	70.5	21.4	90	ne.	29	13.0			10 s		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.80	655.3	29.96	761.0	63	17.2	58	w.	2	0.9			10 s		se.	0	0	cloudy	I. H. Jones.

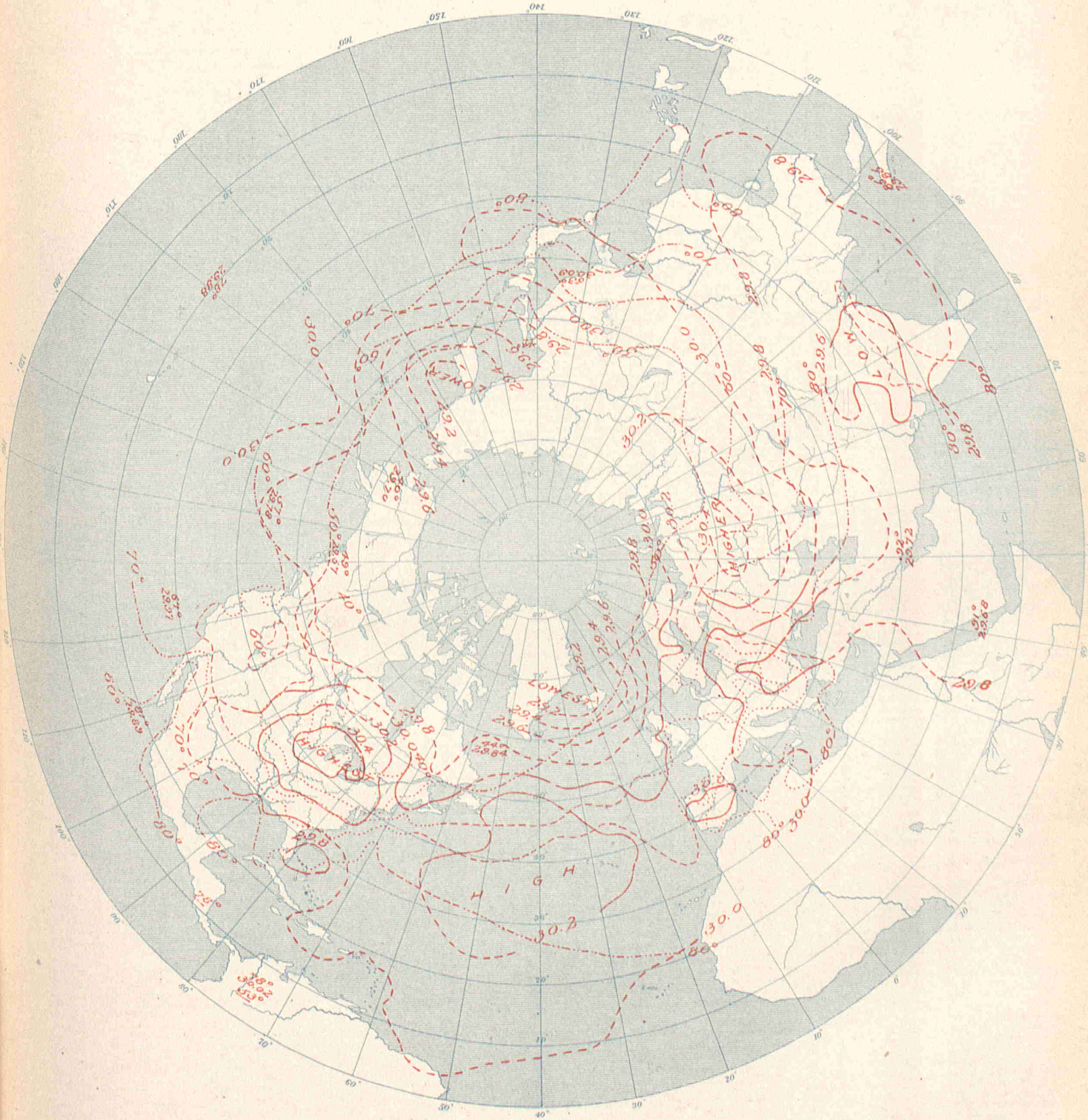
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.78	731.0	30.16	766.1	46.8	8.2	87	se.	18	8.0		0	5 k		se.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.59	751.6	30.37	771.4	42.2	5.7	74	ne.	3	1.3		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	74.0	23.3	90	ne.	12	5.4		5 cs	5 k	nw.	se.	0.56	14.2	cloudy	I. A. Reed.
Jacksonville Florida	29.88	758 9	29.92	760.0	75.5	24.2	94	n	8	3.6		1 cs	9 s		n.	0.03	0.8	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.76	755.9	30.41	772.4	42.5	5.8	75	ne.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.83	757.7	29.85	758.2	84.5	29.2	72	nw.	6	2.7		0	4 k;ks		nw.; w.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	68	20.0	84	ne.	37	16.5			10 s		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.18	741.2	30.20	767.1	59.3	15.2	75	ne.	8	3.6			10 s			0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.68	753.9	30.45	773.4	39	3.9	89	s.	3	1.3			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.46	748.3	30.34	770.6	46	7.8	71	se.	3	1.3		3 ck	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.12	739.6	29.95	760.7	66.0	18.9	48	calm	0	0			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.87	758.7	30.18	766.6	59	15.0	75	ne.	6	2.7		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	58	14.4	93	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.77	756.1	30.32	770.1	47	8.3	86	ne.	8	3.6		0	0			0.10	2.5	clear	L. M Dey.
Lynchburg, Virginia	29.58	751.3	30.26	768.6	59	15.0	70	ne.	4	1.8			10 s		ne.	0.03	0.8	cloudy	Louis Duane.
Mackinaw City, Michigan	29.81	757.2	30.46	773.7	46.0	7.8	83	n.	6	2.7		0	3 s			0.02	0.5	clear	D. B. Notson.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	69.0	20.6	90	ne.	18	8.0		9 cs	0	se.		0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.56	649.2	29.96	761.0	53	11.7	86	w.	16	7.2		0	0			0.04	1.0	clear	F. Burke.
Marquette, Michigan	29.76	755.9	30.48	774.2	35.0	1.7	79	w.	8	3.6		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.90	759.4	30.24	768.1	56	13.3	80	n.	8	3.6		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.71	754.6	30.45	773.4	42	5.6	82	n.	7	3.1		0	7 ks		ne.	0	0	fair	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	72	22.2	76	n.	8	3.6		7 ck	2 s	w.		0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.82	757.4	30.06	763.5	70	21.1	79	n.	4	1.8		7c;cs	0			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.24	742.7	30.23	767.8	36	2.2	89	se.	12	5.4		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	23.67	601.2	29.82	757.4	23.0	— 5.0	100	nw.	58	25.9			fg.		nw.	0.92	23.4	dense fog	S. W. Beall.
Nashville, Tennessee	29.66	753.4	30.23	767.8	54.0	12.2	86	ne.	12	5.4			10 ks		n.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.01	762.2	30.12	765.0	49	9.4	63	nw.	12	5.4		0	3 s			0.27	6.9	clear	J. H. Sherman.
New London, Connecticut	30.09	764.3	30.14	765.5	51	10.6	59	n.	4	1.8		7 cs	0	nw		0.15	3.8	fair	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	29.99	761.7	79.0	26.1	72	ne.	5	2.2		10 cs	hz.	w.		0	0	cloudy	M. Herman.
New York, New York	30.04	763.0	30.21	767.3	50.2	10.1	72	w.	9	4.0		0	2 s			0.15	3.8	clear	H. J. Penrod.
Norfolk, Virginia	30.16	766.1	30.20	767.1	62.0	16.7	65	n.	22	9.8			10 ks		e.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.24	691.9	30.12	765.0	48.6	9.2	82	e.	9	4.0		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.84	757.9	29.88	758.9	61.0	16.1	93	s.	6	2.7			10 n			1.13	28.7	light rain	J. Dascomb.
Omaha, Nebraska	29.18	741.2	30.36	771.1	48.0	8.9	77	se.	2	0.9		0	8 s		w.	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.96	761 0	30.28	769.1	46.0	7.8	68	nw.	15	6.7		0	8 k		nw.	0.13	3.3	cloudy	J. G. Linsley
Palestine, Texas	29.55	750.6	30.10	764.5	66.0	18.9	93	ne.	10	4.5		5 cs	0			0.05	1.3	fair	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	70.8	21.6	82	nw.	5	2.2		9ck;cs	0	w.		0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.16	766.1	30.26	768.6	49.5	9.7	89	nw.	13	5.8		0	0			0.03	0.8	clear	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	30.03	762.7	31	— 0.6	50	nw	10	4.5		0	3 s			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.58	751.3	30.37	771.4	41.5	5.3	92	calm	0	0			fg.			0.17	4.3	dense fog	G. C. Schaeffer.
Poplar River, Montana					51	10.6	86	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.68	753.9	30.36	771.1	41.3	5.2	86	nw.	10	4.5		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.96	761 0	30.01	762.2	55	12.8	69	w.	4	1.8		0	2 s			0.04	1.0	clear	W. W. Eichelberger.
Portland, Oregon	29.87	758 7	29.94	760.5	63.0	17.2	90	s.	13	5.8			10 s		s.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. C																			F. P. Chaffee.
Prescott, Arizona	24.87	631.7	29.97	761 2	54	12.2	77	s.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.04	763.0	30.07	763.8	52.5	11.4	86	nw.	15	6.7			10 n		w.	0.04	1.0	light rain	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.55	751.3	29.93	760.2	63	17.2	47	n.	0	2.7		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.01	762.2	55.5	13.1	78	e.	3	1.3		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	61.0	16.1	72	se.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.80	756.9	30.39	771.9	43.9	6.6	92	ne.	8	3.0		1 c;hz	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.07	753.6	29.70	754.4	40	4.4	89	sw.	15	6.7			10 s			0.08	2.0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.54	750.3	30.39	771.9	38.0	3.3	89	se.	5	2.2		0	0			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.26	743.2	30.13	765.3	41	5.0	92	se.	11	4.9			10 ks			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.07	652.0	29.92	760.0	62	16.7	54	ne.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.86	758.4	29.93	760.2	62.0	16.7	90	ne.	3	1.3			10 s			0	0	cloudy	F. R. Day.
Sanford, Florida	29.80	756.9	29.85	758.2	75	23.9	90	n.	10	4.5			10 n		ne.	0.73	18.5	light rain	J. B. Marbury.
Sandusky, Ohio	29.75	755.6	30.42	772.7	50.5	10.3	58	ne.	14	6.3		0	3 k		ne	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.17	766.3	30.20	767.1	52.0	11.1	66	nw.	29	13.0		1 k	0	nw.		0.02	0.5	clear	B. A. Blundon
San Francisco, California	29.89	759.2	29.96	761.0	55	12.8	63	sw.	9	4.0			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.90	759 4	29.99	761.7	69.5	20.8	90	n.	7	3.1		6c;cs	0			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26 30	668.0	29.90	759.4	55	12.8	47	sw.	0	2.7		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	63.5	17.5	74	ne.	10	4.5		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.95	735.3	30.17	766.3	60	15.6	81	n.	8	3.0			10 s			0	0	cloudy	W. M. Mattingly
Sitka, Alaska	29.01	752.1	29.67	753.6	49	9.4	74	calm	0	0		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.74	755.4	30.22	767.6	58.2	14.6	70	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.01	762.2	30.05	763.3	68.5	20.3	86	ne.	7	3.1		9 cs	0			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.98	761.5	54	12.2	80	w.	6	2.7		2 c	7 k	w.		0.03	0.8	cloudy	John F. Hemenway.
Springfield, Illinois	29.73	755.1	30.40	772.1	42.5	5.8	74	e	6	2.7		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss																			O. Dill.
Stockton, Fort, Texas	27.11	688.6	30.07	763.8	64	17.8	93	se.	1	0.4			fg.			0.14	3.6	light fog	Louis Dorman.
Thomas, Camp, Arizona					69	20.6	61	se.			2	2 cs	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.73	755.1	30.41	772.4	41	5.0	73	n.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.80	756.9	29.82	757 4	50	10.0	71	sw.	10	4.5			9 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					64	17.8	45	ne.			1	0	0			inap.	inap.	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.86	758.4	30.11	764.8	62.0	16.7	87	n.	0	2.7		hz.	4k;hz	n.		0	0	fair	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C	30.22	767.6	30.33	770.4	52.0	11.1	60	nw.	6	2.7		0	0			inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	29.92	760.0	55.5	13.1	83	se.	1	0.4			10 s		nw.	0.04	1.0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	67.0	19.4	84	ne.	4	1.8		0	7 s			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.98	736.1	30.27	768.8	48.0	8.9	66	s.	9	4.0		7 ck	0	s.		0	0	fair	E. H. Thompson.
Yuma, Arizona	29.62	752.3	29.70	755.9	78.1	25.6	42	se.	1	0.4		0	1 s		se.	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					82	27.8		nw.			3		2 ks		ne.	0	0	clear	W. H. Jackson.
Bogota, U. S. C	22.10	561.4			53.2	11.8	71	calm	0	0		4 k	5ks;s	w.		0	0		Joaquin Gomez.
Kingston, Jamaica, W. I			29.96	761.0	82.6	28.1	79	e.	2	0.9		2 cs	1 s	e.	e	0.60	15.2	clear	Robert Johnstone.
Paramaribo, S. A	30.00	762.0	30.00	762.0	80	20.7	78	se.			3	5 ck	0	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C	29.40	748 3	30.02	762.5	78	25.6	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					78	25.6	89	e.			0.5	7 ck		e.		0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A	29.74	755.4	29.80	756.9	38.5	3.6	95	W.	11	4.9		0	1 s		w.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	29.84	757.9	80	26.7	87	w.			4		2	w.				sm'h		d. clouds.
H. M. S. Coquette, N. 39° 38′, E. 19° 56′	29.96	761.0	75	23.9		wnw.			2		4	wnw.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.13	765.3	81	27.2	83	ese.			2		6	ese.						d. clouds.
H. M. S. Flamingo, N. 48° 41′, W. 53° 07′	30.18	766.6	56	13.3		s.			1									d. clouds.
H. M. S. Griffon, N. 18° 42′, W. 75° 00′	30.00	762.0	84	28.9	91	se.			4		2	ese.				3	se.	d. clouds.
H. M. S. Iris, N. 31′ 40° E. 32′ 40°	29.88	758.9	81	27.2	87	wnw.			2		6					1	nnw.	blue sky.
H. M. S. Tenedos, St. Johns, N. F.	30.18	766.6	56	13.3	87	ese.			3		10	ese.				1	ene.	overcast.
U. S. Navy Yard, Portsmouth, N. H *	29.99	761.7	54	12.2	67	nw.	17	7.6			2		nw.	0	0			fair
U. S. S. Alliance, Sydney, N. S.	30.06	763.5	58	14.4	94	ene.			1		10			0	0	sm'h		overcast.
U. S. S. Galena, New York, N. Y	30.23	767.8	54	12.2	87	nnw.			4		5		ne.			sm'h		fair
U. S. S. Jamestown, N. 33° 40′, W. 13° 40′	30.06	763.5	70	21.1	90	nne.			3		10?		ne.			mod.	ne.	fair?
U. S. S. Kearsarge, N. 39° 59′, W. 28° 44′	30.30	769.6	74	23.3	86	wsw.			3		10		w.			sm'h		cloudy.
U. S. S. Lancaster, Port Mahon, Spain	30.07	763.8	76	24.4	77	nne.			2		2		ssw.			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass	30.07	763.8	59	15.0	88	nw.			4		10		nw.					raining.
U. S. S. Powhatan, N. 40° 11′ W. 71° 28′	30.12	765.0	58	14.4	88	n.			3		10							cloudy.
U. S. S. Quinnebaug, N. 39° 09′, W. 10° 58′			68	20.0	90	nne.			4		10		n.			sm'h	sw.	cloudy
U. S. S. Saratoga, Oyster Bay, Long Island	30.21	767.3	55	12.8	93	nw.			4		8		nw.	light	light	sm'h		fair.
U. S. S. Swatara, Port Hood, C. B.	30.08	764.0	58	14.4	88	se			1		10		se.	light	light	sm'h		raining.
U. S. S. Vandalia, N. 46° 19′, W. 61° 54′	30.05	763.3	58	14.4	94	se.			2		10							cloudy
U. S. S. Yantic, N. 58° 40′ W. 53° 40	29.84	757.9	44	6.7	84	nw.			5–6		5					mod	n.;w.	fair.
S. S. British Crown, N. 40° 40′, W. 68° 21′ †	30.07	762.8	64	17.8		wnw.			4		2		w	0	0	sm'h		clear.
S. S. British Princess, N. 39° 20′ W. 73° 00′ †	30.18	766.6	60	15.6		ne.			4		4		ne.	0	0	mod.	nne.	clear.
S. S. Lord Clive, N. 48° 43′, W. 36° 41′	30.27	768.8				nnw.			3		6		nnw.	0	0	sl't	n.	fine.
S. S. Lord Gough, Queenstown, Ireland	29.93	760.2	56	13.3		ssw.			3		10		sw.	0	0			cloudy.
S. S. Ohio, Liverpool, Eng †	30.09	764.3	64	17.8	83	sse.			2		3		s.	0	0			clear.
S. S. Circassian, N. 49° 02′, W. 67° 15′	29.86	758.4	45	7.2	100	var.			3		10					2	e.	misty.
S. S. Grecian, N. 55° 55′, W. 35° 06′	29.81	757.2	58	14.4	82	w.			5		4		w.	1 h'r	1 h'r	high	w.	fair.
S. S. Polynesian, N. 56° 17′ W. 19° 55′	29.75	755.6	54	12.2		wsw.			6		3		wsw.	0	0	r'gh	w.	fair.
S. S. Prussian, N. 42° 27′, W. 67° 30′	30.06	763.5	63	17.2		se.			2		7		w.					sprinkling.
S. S. Scandinavian, N. 52° 44′, W. 23° 55′	29.88	758.9	53	11.7		w.			5	c	5 k		w.	sh'rs	sh'rs	mod.	w.	d. clouds.
S. S. Alvo, Kingston, Jamaica, W. I *	29.92	760.0	83	28.3		ese.			4		6		se.	5 h'r	5 h'r			fine.
S. S. Andes, N. 37° 00′, W. 74° 10′*†	30.25?	768.3?	67	19.4		n.			6		10		n.	0	0	h'vy	n.	cloudy.
S. S. Avilla, Mayagues, Porto Rico, W. I.			85	29.4		calm			0		0			0	0			
S. S. Australia, N. 37° 43′, W. 15° 57′†*	30.11	764.8	64	17.8		ne.			5		4		ne.	0	0	long	nnw.	clear.
S. S. Devonia, N. 54° 22′, W. 21° 10′ *†	23.83	757.7	57	13.9		w.			5		4		w.			high	w.	clear.
S. S. Dorian, Gibraltar, Mediterranean	30.00	762.0	74	23.3		calm			0		0			0	0			clear.
S. S. Furnesia, N. 40° 36′ W. 68° 52′†	30.11	764.8	69	20.6	85	wnw.			2		4		wnw.	0	0			fair.
S. S. Carroll, N. 42° 51′, W. 66° 56′ *†	30.13	765.3	62	16.7	88	sse.			3		6		sse.	0	0	long	sse.	fair.
S. S. Llandaff City, N. 46° 55′ W. 36° 12′ †	30.33	770.4	60	15.6		n.			4		3		ne.	0	0	light	nw.	clear.
S. S. Gallia, N. 44° 57′, W. 44° 36′	30.17?	766.3?	64	17.8	89	e.			4		10		e.	light	light	sm'h		overcast.
S. S. Pavonia, N. 42° 09′ W. 54° 56′*	30.15	765.8	66	18.9	94	ssw.			5		5		ssw.	10 h'r	10 h'r	mod	ssw.	squally.
S. S. Samaria, N. 42° 32′ W. 66° 00′			56	13.3		s.			2		5		wsw.	0	0	sm'h	ne.	fair.
S. S. Canada, N. 45° 39′, W. 54° 53′	30.02?	762.5?	51.8	11		s.					mist					sm'h	w.	misty.
S. S. France, N. 49° 49′, W. 7° 03′†	29.99?	761.7?	59.0	15		se.			3		9		sw.	0	0	sm'h	sw.	cloudy.
S. S. Wisconsin, N. 49° 10′ W. 39° 45′			59	15.0		nw.			2		5		nnw.	0	0	long	nnw.	fair.
S. S. Wyoming, N. 51° 35′, W. 80° 36′	30.02?	762.5?	56	13.3		ssw.			3		8		ssw.	0	0	mod.	wsw.	fair.
S. S. Bohemia, N. 41° 02′, W. 68° 09′†	30.21?	767.3?				var.			3		6		nw.	0	0	sm'h	nw.	fine.
S. S. Frisia, N. 50° 07′, W. 10° 02′	29.96	761.0				nw.			2		10		nw.	1 h'r	1 h'r	long	nw.	cloudy.
S. S. Gellert, New York, N. Y.	30.20	767.1	60	15.6	65	n.			2		0		nw.	0	0			clear.
S. S. Silesia, N. 49° 25′, W. 23° 30′	30.13	765.3	58	14.4		nw.			5		5		nw.	0	0	mod.	nw.	fair.
S. S. Westphalia, N. 43° 41′, W. 62° 22′	30.11	764.8	57	13.9	87	wnw.			4–5		5		w.	0	0	sm'h	nw.	fair.
S. S. Rhaetia, N. 50° 39′, W. 20° 03′			53	11.7		nnw.			5		4		nnw.	0	0	long	nw.	clear.
S. S. Bulgarian, N. 47° 43′, W. 42° 49 *	30.41?	772.4?				e.			1		2		e.	0	0	light	n.	clear.
S. S. Virginian, N. 50° 04′, W. 16° 33′*	29.87	758.7	61	16.1		w.			3		10		wnw.	slight	slight	sm'h		drizzling.
S. S. Rosse, N. 44° 22′, W. 36° 52′..*	30.37	771.4	72	22.2		ne.			3		4?		nnw.	0	0	sm'h		cloudy?
S. S. Rio Grande, N. 27° 35′, W. 79° 28′			82	27.8		nne.			8		10		var.	2 h'r	2 h'r	cross	var.	gloomy.
S. S. Chalmette, Algiers, La †	30.03	762.7	78	25.6		n.			3		3		n.	0	0			clear
S. S. New York, N. 27° 46′, W. 80° 00′*†.	29.76	755.9	80	26.7		ne.			7–9		10		e.	7 h'r	7 h'r	h'vy	ene.	cloudy.
S. S. Alleghany, Vineyard Sound, Mass†	30.11	764.8	56	13.3		nnw.			4		8		nw.	0	0			cloudy.
S. S. Archimede, Palermo, Sicily†	30.08?	764.0?	74	23.3		nne.			3		2		nne.	0	0			clear
S. S. City of Washington, N. 29° 52′ W. 77° 40′ *†	29.70	754.4	74	23.3		se.			8		10		se.	6 h'r	6 h'r	h'vy	cross	heavy gale.
S. S. Canada, N. 49° 10′, W. 12° 10′			62	16.7		ese.			3		10		n.	2 h'r	2 h'r	sm'h		overcast.
S. S. Denmark, N. 49° 44′, W. 16° 15′†	29.91	759.7	59	15.0		wsw.			5		10		w.	shr's	shr's	sl't	w.	misty.
S. S. Egypt, N. 50° 08′, W. 30° 19′	30.21?	767.3?	56	13.3		w.			5		5		w.	0	0	mod.	nw.	fair.
S. S. England, N. 41° 11′, W. 66° 24′	30.06	763.5				sw.			3		10		sw.			sm'h		overcast.
S. S. America, N. 40° 46′, W. 64° —′*	30.19?	766.8?	72.0	22.2	74	se.			3		2		ne.	0	0	mod.	n.	clear.
S. S. Elbe, Bremerhaven, Germany	29.96?	760.9?	65.3	18.5	80	calm			0		0			0	0			fine.
S. S. Fulda, N. 47° 33′, W. 41° 44′	30.31	769.9	56.3	13.5	76	n.			3		2		nnw.	0	0	sm'h	n.	clear.
S. S. Gen. Werder, N. 43° 27′, W. 59° 03′	30.09	764.3				s.			2		10		wsw.	2 h'r	2 h'r	sm'h	s.	foggy.
S. S. Habsburg, N. 40° 20′, W. 70° 15′	30.09	764.3				wnw.			4		9		nw.	0	0	sm'h	wnw.	cloudy.
S. S. Neckar, N. 41° 50′, W. 63° 28′	30.11	764.8	61.5	16.4	97	sw.			1–2		7		sw.			sm'h	sw.	fair.
S. S. Oder, N. 48° 25′, W. 33° 38′	30.24	768.1	59.0	15.0		nw.			3		4		nw.	0	0	mod.	nw.	fair.
S. S. Ohio, Baltimore, Md	30.20	767.1				nne.			3		5		n.	0	0			fair.
S. S. Salier, N. 49° 30′, W. 25° 30′*	30.10	764.5	59.0	15.0	62	nne.			5		7		nne.	2 h'r	2 h'r	r'gh	n.	fair.
S. S. Strassburg, N. 49° 33′, W. 30° 07′	30.14	765.5	59.0	15.0	67	wnw.			4		5		wnw.	0	0	3	wnw.	fair.
S. S. Werra, N. 50° 54′, W 26° 10′	30.06	763.5	53.6	12.0		nw.			5–6		2		nw.	0	0	r'gh	nw.	clear
S. S. Weser, N. 52° 24′, E. 3° 21′	30.19	766.8				wnw.			2		2		wnw.	1 h'r	1 h'r	sm'h		fair.
S. S. City of Augusta, N. 34° 07′, W. 76° 45′†	30.12	765.0				ne.			6		10?		ne.	0	0	h'vy	e.	clear?
S. S. Muriel, Saint Thomas, W. I.	29.97	761.2	84	28.9		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 35° 35′ W. 68° 10′ *†	30.12	765.0	76	24.4		ssw.			3		5		ssw.	sh'rs	sh'rs	mod.	ssw.	fair
S. S. Belgenland, N. 48° 15′, W. 25° 45′†	30.22?	767.6?	60	15.6	71	nw.			5		5		nw.	0	0	mod.	wnw.	fair.
S. S. Nederland, N. 50° 11′, W. 37° 01′			54	12.2	100	nw.			5		2		nw.	0	0	mod	nw.	clear.
S. S. Rhynland, No. 50° 00′, W. 2° 00′	30.18?	766.6?	56	13.3	81	sse.			3		0			0	0			clear.
S. S. Pennland, Antwerp, Belgium	30.10	764.5	64	17.8	89	nnw.			2		2		nnw.	0	0			clear.
S. S. Switzerland, N. 40° 22′ W. 69° 08′*†	30.11	764.8				s.			1		2		ssw.	0	0	sm'h		clear.
S. S. Vaderland, Antwerp, Belgium	30.13	765.3	75	23.9		nw.			2		1		w.	0	0			clear.
S. S. Waesland, New York, N. Y	30.21	767.3	56	13.3		nw.			6		0			2 h'r	2 h'r			clear.
S. S. Zeeland, N. 50° 16′, W. 19° 20′ *†	29.90	759.4	57	13.9		wnw.			4		1		w.	0	0	hv'y	wsw.	clear.
S. S. P. Caland, N. 48° 00′ W. 40° 45′	30.32	770.1	58.3	14.6	70	nnw.			2		4		wsw.			2	nw.	fair.
S. S. W. A. Scholten, N. 49° 30′ W. 12° 30′	29.94	760.5	59.9	15.5	94	se.			1		10		sse			1	s.	
S. S. Belize, N. 28° 49′, W. 74° 04′			86	30.0		se.			9		10		se.	8 h'r	8 h'r	h'vy	se.	cloudy.
S. S. Valencia, N. 17° 59′, W. 68° 09′†	30.04	763.0	83.5	28.6	77	e.			3		2		n.	0	0	sm'h		clear.
S. S. Caracas, N. 26° 19′, W. 68° 09′*†	30.11	764.8	82	27.8	83	ese.			5		2		ese.	½ h'r	½ h'r	mod.	ese.	clear.
S. S. State of Nevada, N. 43° 52′, W. 57° 03′†	30.07	763.8	61	16.1		s.			2		2		s.	0	0	mod.	ssw.	clear.
S. S. State of Alabama, N. 48° 03′, W. 33° 24′ *	30.27	768.8	63	17.2		n.			4		2		nne.	0	0	mod.	n.	clear.
S. S. Thingvalla, Copenhagen, Denmark †	30.07	763.8	59.0	15.0		w.			2		3		w.	0	0			clear.
S. S. Romano, Hull, Eng*†	29.93?	760.2?				sw.			2		9		se.	16 h'r	16 h'r			
S. S. Salerno, New York, N. Y *†	30.18	766.6	60	15.6		wnw.			3		1		nw.	0	0			clear.
S. S. Oregon, N. 56° 16′, W. 19° 24′	29.72	754.9	52	11.1		sw.			4		8		w.			hv'y	wnw.	cloudy
S. S. Daniel Steinmann, N. 47° 49′, W. 36° 49′*†	30.28	769.1	61	16.1		wnw.			1		1?			0	0	long	nw.	cloudy?
S. S. Saxon, Philadelphia, Pa †	30.26	768.6				nw.			4		0			0	0			clear
S. S. Britannic, N. 51° 02′ W. 22° 40′†	30.07	763.8	58	14.4		w.			5		6		w.	0	0	long	wnw.	d. clouds.
S. S. Celtic, Liverpool, Eng †	30.08	764.0	65	18.3	73	sw.			2		5		s.	0	0	sm'h		fair.
S. S. Germanic, N. 40° 25′, W. 67° 46′*†	29.97?	761.2?	69	20.6		nw.			4		3		n.	0	0	sm'h	s.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Iowa, N. 51° 23′, W 10° 41′ †	29.91	759.7	60	15.6		sse.			5		10		se.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Amsterdam, N. 50° 50′ E. 0° 57′ *	30.25?	768.3?	66.2	19		s.			2									hazy.
S. S. Algiers, N. 40° 00′, W. 73° 50′*†	30.25	768.3	53	11.7		nnw.			6								sse.	fair.
S. S. City of Alexandria, N. 20° 10′, W. 91° 55′*†	29.86	758.4	83	28.3		se.			3								se.	d clouds.
Schr. Arthur Burton, N. 41° 35′, W. 70° 00′†	30.07	763.8				nw.			2		10		nw.			long	ne.	threatening
Schr. Abbie H. Gheen, Gloucester, Mass†	30.25	768.3	60	15.6		nnw.			5									clear.
S. S. Antonio Lopez, Porto Rico, W. I	30.06	763.5	81.5	27.5	83	calm			0		3			0	0	sm'h		clear.
Bk. Aquidneck, N. 35° 07′, W. 73° 38′*†	30.10	764.5	82?	27.8?		s.			2–7		6		s.	6 h'r	6 h'r	hv'y	s.	heavy rain.
Bg. Alcira, N. 35° 01′, W. 74° 10′	30.08	764.0	81?	27.2?		ene.			2		10		ene.	18 h'r	18 h'r	mod.	se.	overcast.
Bgt. Achsah, N. 21° 53′, W. 60° 24′†	30.07	763.8	83	28.3		e.			5		4		e.	3 h'r	3 h'r	r'gh	se.	fair.
Bk. Aureola, N. 19° 04′, W. 26° 22′†	29.99	761.7	82	27.8		nne.			4		3		nne.	0	0	mod	ne.	clear.
Bk. Adelaide, N. 30° 34′, W. 51° 41′*†	30.46?	773.7?				sse.			3		1		ese.	0	0	mod.	se.	clear.
Bg. Belle of the Bay, N. 33° 34′, W. 69° 54′ †	30.14	765.5				sse.			3		4		se.	0	0	sm'h	se.	clear.
S. S. Burswell N. 45° 25′, W. 26° 26′*†	30.15	765.8	70	21.1		n.			2		4		ne.	2 h'r	2 h'r	sm'h		fair.
S. S. Cannonbury, Barbadoes, W. I*†	30.10?	764.5?				var.			1		5		ne.	0	0	sm'h		fair.
Bk. Celestina, N. 40° 10′, E. 9° 40′*†	30.06?	763.5?				s.			0–2		0			0	0	sm'h		clear.
Bk. Childwall, N. 39° 07′, W. 16° 07′*	30.08	764.0	68	20.0	90	n.			3		9		n	0	0	sm'h	n.	cloudy
Schr. C. R. Flint, N. 39° 19′, W. 70° 20′†	30.14	765.5	71	21.7		nnw.			1		10		ne.	0	0	long	sse.	overcast.
Bk. Cato, N. 36° 51′, W. 8° 45′†	30.01	762.2				calm			0							sm'h	se.	foggy.
Bk. Don Justo, N. 59° 27′, W. 4° 00′						ssw.			4		4		ssw.	0	0	mod.		fair.
S. S. State of Nebraska, N. 55° 24′, W. 8° 20′*†	29.90	759.4	52	11.1		s.			6		9		s.	2 h'r	2 h'r			cloudy.
S. S. D. J. Foley, Kingston, Jamaica, W. I*†	29.97	761.2	85	30.0	78	e.			2		3		e.	4 h'r	4 h'r			clear.
Bkt. David A. Preston, Windsor, N. S						s.			1		10		s.	0	0	sm'h		
S. Dora, N. 44° 50′, W 41° 37′*†	30.37	771.4	64.8	18.2		e.			1–2		3		ne.	0	0			fair.
S. David Stewart, N. 10° 16′, W. 46° 29′			88	31.1		var.			1		5		ene.	2 h'r	2 h'r	long	ne	
S. E. J. Spicer, Antwerp, Belgium	30.24?	768.1?	58	14.4		w.			3		10?		wsw.	6 h'r	6 h'r			clear.?
Schr. Edith R. Seward, Doboy Island, Ga†	29.83?	757.7?	76	24.4		ne.			5		7		e.	0	0			cloudy.
Bk. E. D. Bigelow, N. 29° 21′, W. 94° 26′ †	30.02	762.5	88	31.1		nne.			5		2		ne.	0	0			clear.
Bk. Edmund Phinney, N. 17° 10′, W. 52° 20′†	30.08	764.0	86	30.0		e.			5		4		e.	sq'lls	sq'lls	mod.	e.	fair.
Bk. E. L. Pettingill, N. 8° 34′, W. 28° 19′*†	30.10?	764.5?	80	26.7		ssw.			4		5		ssw.	8 h'r	8 h'r	mod.	sse.	fair.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.08	764.0	55	12.8		nw.			5		10		nw.	0	0			cloudy.
Bg. George, N. 21° 06′, W. 62° 50′*†	30.04	763.0	80	26.7		ese.			5		2		se.	0	0	mod.	ese.	fair.
Bk. Galeon, N. 46° 41′ W. 9° 50′†	30.05	763.3	64	17.8		ssw.			3		10		sw.	light	light		nw.	showery.
Bk. Grey Eagle, N. 28° 00′, W. 51° 25′*†	30.20?	767.1?				ese.			4		3		ese.	0	0	slf't	ese.	clear.
S. Hedwig, N. 36° 10′, W. 4° 06′	30.08	764.1	78.3	25.7	79	ene.			3		3		e.	0	0	1	ese.	
Schr. Isabel Alberto, Key West, Fla†	29.79	756.7				wsw.			2		3		w.	0	0			fair.
Bkt. Josephine, N. 35° 07′, W. 72° 31′†	30.06	763.5	79	26.1	74	sw.			3		10			3 h'r	3 h'r	mod.	s.	drizzling.
Bk. Johanne, N. 59° 11′, E. 3° 49′*†	30.05	763.3	62	16.7		calm.			0		2			0	0	sm'h		fine.
Schr. John L. Thomas, N. 17° 52′, W. 83° 48′*†	29.90	759.4	86	30.0	83	se.			1		1		s.	0	0			clear.
Schr. Jennie N. Huddell, East Cambridge, Mass†	30.10	764.5	59	15.0	76	wnw.			2		10		w.	h'vy	hv'y			cloudy.
Bg. Josefa, Bristol, England†	30.13?	765.3?				sse.			3		2		sse.	0	0			fair.
Bk. Lady Hincks, N. 38° 35′, W. 24° 50′*†	30.10?	764.5?							1–3					0	0			
Bg. L. & W. Armstrong, Ft. Royal, Martinique, W. I*†	29.96	761.0				calm			0		1		e.	0	0	sm'h		clear.
S. S. Madrid, N. 38° 43′ E. 25° 08′†	29.84	757.9	75	23.9	77	n.			3		0			0	0	sm'h		clear.
Bk. Mohican, N. 5° 40′, W. 27° 50′	29.83?	757.7?	82	27.8		s.			2		4		s.	0	0	sm'h	ese.	clear.
Schr. Norena, N. 32° 06′, W. 07° 13′*†	30.05	763.3				se.			3		3		s.	0	0	mod.	sse.	fine.
Bk. Orpheus, N. 57° 07′, W. 20° 48′			56	13.3		w.			4		7		w.	0	0	mod.	nw.	fair.
Bk. Ottawa, N. 40° 22′, W. 70° 00′	30.03	762.7	66	18.9		nnw.			5		10		sw.	1 h'r	1 h'r	sm'h		cloudy.
Sch. Rollin Sanford, Key West, Fla†	29.83?	757.7?				nw.			1		5		wnw.	0	0			fair.
Bg. Rising Sun, N. 23° 10′, W. 68° 41′†	30.03	762.7	85	29.4		se.			4		2		se	0	0	mod.	ese.	clear.
Bgt. Sunlight, Demerara, British Guiana*†	29.96	761.0				se.			2		9		e	0	0			cloudy.
Bk. Scud, N. 36° 15′, W. 70° 50′*†	30.10	764.5	80	26.7		w.			3		9		w.	2 h'r	2 h'r	mod.	s.	rainy.
Bk. Southern Belle, off Alboran Island, Med†	30.00	762.0	68	20.0		e.			2							sm'h		clear.
Bk. Tuck Sing, N. 20° 53′, W. 82° 41′*†	29.88	758.9				wsw.			1		0			0	0	sm'h		fine.
S. S. Tower Hill, off Dungeness, Eng*†	30.27?	768.8?				ne.			3		4		n.			sm'h		hazy.
Schr. Viola Reppard, N. 30° 32′, W. 80° 52′†	30.03?	762.7?	81	27.2		ne.			6		9		ne.	1 h'r	1 h'r	small	ne.	cloudy.
Bgt. Willie, N. 8° 30′, W. 34° 25′*†	30.00	762.0	82	27.8		ssw.			4		8		ssw.	3 h'r	3 h'r	r'gh	s.	cloudy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 23° 05′, W. 41° 40′	30.08	764.0	70.5	21.4	90	n.			1		3	nw.				2	ne.	misty.
H. M. S. Opal, Elephant bay, Benguela	30.01	762.2	67	19.4	95	nne.			1		5	calm						d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.30	769.6	49.7	9.8	82	n.			3		7	n.				3	n.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.31	769.9	47	8.3	85	n.	6	2.7			10		calm.	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.30	769.6	47	8.3	77	nnw.			2		8		nnw.			sm'h		fair.
S. S. Hevelius, N. 13° 00,′ W. 38° 30′*†	30.25	768.3	79	20.1		ese.			2		5		e.	1 h'r	1 h'r	sm'h		fair.
Bk. Great Surgeon, S. 21° 54′, W. 31° 32′*†	30.42	772.7	72	22.2		e.			5		2		e.	½ h'r	½ h'r	mod.	e.	clear.
S. Gatherer, S. 8° 10′, W. 34° — ′ *...	29.95	760.7	79	26.1	74	ese.			4		5		ese.	6	0	sm'h	e.	fair.
Bk. Godeffroy, S. 46° 01′, W. 60° 05′	29.70	754.4	37.6	3.1	83	e.			8		9		sw.	snow	snow	r'gh	sw.	squally.
Bkt. Louise Adelaide, S. 14° 25′, W. 34° 50′†.	30.09	764.3	78	25.6		sw.			4		0			1 h'r	1 h'r	long	se.	clear.
S. S. Olbers, Rio de Janeiro, Brazil	30.19	766.8	74	23.3	86	se.			2		10			0	0	sm'h		dense fog
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.95	760.7	63	17.2		ese.			1		0			0	0			blue sky.
Bg. John Wesley, Rio de Janeiro, Brazil*†	30.10	764.5	74	23.3		e.			1					0	0			hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	30.09	764.3	63	17.2	72	wsw.			2		1	w.				sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.91?	759.7?	78	25.6	73	nne.			3		8					1	s.	misty.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.87	758.7	85.7	29.8	78	se.			1		8							d. clouds.
H. M. S. Mutine, N. 20° 18′, W. 110° 10′	29.87	758.7	81	27.2		wnw.			2		2					2	nw.	blue sky.
H.P.M. S. Tamega, Macao, China	29.74	755.5	85.6	29.8	76	ene.			6		7			3 h'r	3 h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.15	765.8	63.5	17.5	97	n.			2		10			0.12	3.0			raining.
U. S. S. Essex, Roze Island, Corea	29.97	761.2	78	25.6	95	e.			3		7		e.			sm'h	e.	cloudy.
U. S. S. Monocacy, Roze Island, Corea	29.99	761.7	78	25.6	78	ne.			3		10		ne.			sm'h		cloudy.
U. S. S. Palos, Hong Kong, China	29.81	757.2	82	27.8	100	e.			7		7		e.					raining.
U. S. S. Pensacola, N. 19° 48′, W. 172° 03′*	29.88	758.9	78	25.6	86	ne.			4		5		ne.	mod.	mod.	mod.	ne.	fair.
U. S. S. Richmond, Yokohama, Japan	30.12	765.0	66	18.9	100	nnw.			4		10			0.5	13.			raining.
S. S. Coptic, N. 36° 32′, E. 144° 42′	30.17	766.3	72.5	22.5	71	ene.			3		8		ne.	3 h'r	3 h'r	slf't	ne.	overcast.
S. S. Oceanic, N. 46° 40′, W. 166° 58′	30.11	764.8	57	13.9	94	se.			4		8		se.	0	0	5	var.	overcast.
S. S. Oregon, N. 44° 17′, W. 124° 10′†	29.99	761.7	56.5	13.6	100	sse			1									clear
S. S. Willametta, N. 40° 50′, W. 124° 35′ †	30.02	762.5	59	15.0	88	sse.			1		10		sse.	0	0	long	nw.	dense fog.
S. S. Ancon, N. 33° 39′, W. 118° 09′ †	29.94	760.5	64	17.8	89	ne.			1		10					light	w.	foggy.
S. S. State of California, Portland, Oregon†	29.99	761.7	63	17.2	83	s.			2		10		s.					cloudy.
S. S. Queen of the Pacific, Portland, Oregon†	29.97	761.2	64	17.8	89	ssw.			1		3?			rain	rain			cloudy.?
S. S. Victoria, Astoria, Oregon†	29.98?	761.5?	65	18.3	89	sse.			5		10		s.					rainy.
S. S. City of Pekin, N. 45° 30′, W. 143° 19′†	29.78	759.4	57	13.9	94	w.			7		10		w.	0	0	rg'h	w.	squally.
S. S. City of Tokio, N. 32° 36′, E. 131° 57′ †	30.08?	764.0?	82	27.8	79	ese.			3		3		ssw.	0	0	h'vy	sse	misty.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.77	759.1	84	28.9	68	e.			4–6		7		e.	0.1	3.	sm'h		squally.
S. S. Colima, N. 16° 00′, W. 98° 20′†	29.91	759.7	80	26.7	78	wnw.			4		4		nw.	0	0	mod.	se.	clear.
S. S. Grenada, N. 17° 30′, W. 102° 20′†	29.89	759.2	79	26.1	91	ene.			2		7		ne.	2 h'r	2 h'r	light	var.	cloudy.
S. S. San Juan, Panama, Panama			78	25.6		ene.			1		7ks		ne.	1 h'r	1 h'r	gr'd	nw.	d. clouds.
S. Armenia, N. 29° 24′, W. 124° 30′*	29.97	761.2	67	19.4	84	nne.			4		4		nne.	0	0	sm'h	var.	clear.
S. Mt. Washington, N. 46° 10′, W. 126° 10′ *†	29.90	759.4	65	18.3	94	ssw.			8		10		s.	9 h'r	9 h'r	h'vy	cross	cloudy
S. St. David, N. 43° 12′, E. 105° 45′*†	29.86	758.4	71	21.7	85	wsw.			3		10		wnw.	0	0	slf't	wnw.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 09′, E. 155° 47′	29.94	760.5	80.3	26.8	85	ese.			4		8					1	e.	squally.
U. S. S. Hartford, Callao Bay, Peru *	29.94	760.5	61	16.1	94	calm			0		10			0	0			cloudy.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	59	15.0	94	nw.			1		10							cloudy.
U. S. S. Lackawanna, Callao, Peru*	29.97	761.2	60	15.6	88	calm			0		10							misty.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	58	14.4	94	calm			0		10							overcast.
U. S. S. Wachusetts, Callao, Peru*†	30.20	767.1	58	14.4	100	calm			0		10							fair.
S. S. City of Sydney, Sydney, N. S. W *†	30.18	766.6	56	13.3	69	ne.			2	6 c	0	ne.						clear.
S. S. Zealandia, S. 33° 49′, E. 166° 11′	30.05	763.3	59	15.0	88	sse.			5		0							foggy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.11	764.8	64	17.8		se.			3		fg.			0	0	mod.	sse.	d. clouds.
S. David Crockett, S. 24° 49′, W. 116° 41′*	30.06	763.5	68	20.0	79	se.			4		6		sse.	0	0	long	s.	cloudy.
S. Sovereign of the Seas, S. 42° 44′, W. 86° 03′*†	30.72	780.3	46	7.8	84	nne.			2		9		nne.	0	0	h'vy	sw.	
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 16° 05′, E. 50° 00′	30.15	765.8				s.			3		4	sse.				2	sse.	d. clouds
H. M. S. Euryalus, S. 7° 04′, E. 40° 00′	30.01	762.2	78	25.6	82	ese.			1		1	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	79	26.1	86	calm			0		2							blue sky.
H. M. S. Woodlark, Bushire, Persia	29.72	754.9	91.5	33.1	81	wsw.			4		0					2	w.	misty.
U. S. S. Juniata, Sunda Strait	29.92	760.0	82	27.8	96	sse.			4		0			0	0	sm'h		clear.
S. S. Galatia, N. 16° 01′, E. 41° 28′†	29.68	753.9	91	32.8	81	nne.			3		7		nw.	0	0	mod.	sw.	cloudy.
S. S. Benledi, N. 5° 30′, E. 96° 30′*	29.85	758.2	85	29.4	76	nw.			4		10			0	0	mod.	nw.	overcast.
Bk. Pilgrim, S. 25° 27′, E. 53° 20′*†	30.30	769.6				e.			2		1		e.	0	0	long	se.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 10, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ALGERIAN.																			
Nemours			30.02	762.5	79.5	26.4	75	e.			1		0			0	0	clear	Roziere.
Algiers			30.03	762.8	79.9	26.6	56	ne.			1		0			0	0	clear	Thève.
La Galle			30.04	763.0	74.5	23.6	72	ene.			6		1			0	0	very fair	Fonfrède.
Tunis			30.08	763.9	81.3	27.4	39	wnw.			2		0			0	0	clear	Delord.
Saida			30.07	763.8															Pérés.
Tebessa			30.06	763.4	83.1	28.4	43	w.			1		0			0	0	clear	St. Martin.
Geriville					77.0	25.0	11	n.			1		2			0	0	fair	Forfert.
Laghouat			30.08	764.0	86.7	30.4	11	ese.			2		0			0	0	clear	Abraham.
Biskra			30.04	763.0	88.2	31.2	31	calm			0		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.81	757.2	53.1	11.7	75	ne.	6	2.7			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.76	755.9	29.85	758.2	59.5	15.3	52	ne.	8	3.6			4			0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.52	749.9	30.06	763.6	66.9	19.4	54	se.			2		8			0.260	6.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.31	744.4	30.08	763.9	55.4	13.0	82	wnw.	6.3	2.8			10			0.197	5.0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.51	724.1	29.91	759.7	61.9	16.6	74	nw.			3		10			0.465	11.8		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.08	764.0	57.7	14.3	71	calm			0		3			0	0		The Staff.
Lemberg	29.01	736.8	29.98	761.6	57.7	14.3	92	n.			3		10			0.362	9.2		Dr. T. Stanecki.
Pola	29.94	760.5	30.05	763.3	67.3	19.6	56	calm			0		5			0	0		I. R. Hydrographic Office.
Szathmar	29.47	748.4	29.92	759.9	62.2	16.8	88	w.			4		9			0	0		Joseph Midlinszky, S. J
Szegedin	29.72	754.9	30.00	761.9	62.4	16.9	74	nw.			2		8			0.240	6.1		Karl Stuccel.
Trieste	29.98	761.4	30.08	763.9	72.0	22.2	25	ne.			1		3			0.004	0.1		Royal Academy.
Vienna	29.39	746.5	30.10	764.5	58.8	14.9	67	nw.			3		5			0.161	4.1		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.77	756.1	29.87	758.7	53.6	12.0	92	sse.	13	5.8			10			0.010	0.3	drizzling	W. Boswell.
Armagh, Observatory	29.69	754.1	29.92	760.0	56.2	13.4	82	nw.	5	2.2			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.84	757.9	59.0	15.0	94	se.	6	2.7			10					raining	John Hartnup.
Bolton, Sharples	29.52	744.7	29.85	758.2	55.8	13.2	98	ssw.					10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.47	748.5	29.87	758.7	56.1	13.4	96	se.			1		10			0.18	4.6	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	85.0	29.4	60	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.83	757.7	29.93	760.2	60.0	15.6	88	s			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.81	757.2	29.98	761.5	59.6	15.3	79	s.			2		10					raining	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.66	753.4	29.88	758.9	59.1	15.1	92	nw.			3		9					d. clouds	The Staff.
Fort Napier, Natal	27.67	702.8	29.89	759.2	74.2	23.4	57	se.			1		3			blank	blank	blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.90	759.4	29.93	760.2	58	14.4	70	nw.			2		3			0.45	11.4	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.04	763.0	75.2	24.0	90	e.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.64	752.8	29.85	758.2	58.1	14.5	81	wsw.			2		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	63.5	17.5	67	sse.			1		10					drizzling	The Staff.
Guernsey	29.61	752.1	29.90	759.4	60.0	15.6	94	sse.			1		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.91	759.7	29.95	760.7	62.1	16.7	80	ssw.	12	5.4			10					threatening.	The Staff.
Leicester, Museum	29.62	752.3	29.88	758.9	58.0	14.4	97	s.			2		10					raining	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	79.2	26.2	58	nw.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.92	760.0	29.96	761.0	78.0	25.6	93	sw.			2		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.67	753.6	29.90	759.4	60.3	15.7	91	sse.			3		10					raining	The Staff.
Plymouth	29.78	756.4	29.86	758.4	61.0	16.1	98	sw.			1		10					drizzling	John Merrifield.
Sandwick Manse, Orkneys	29.72	754.9	29.82	757.4	54	12.2	93						10					raining	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.87	758.7	73.4	23.0	76	n.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.60	751.8	29.87	758.7	63.4	17.4	72	s.			1		10			0.77	19.6	drizzling	W. F. Cooper.
Silloth Rectory	29.82	757.4	29.85	758.2	60.8	16.0	86	wsw.			1		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	57.0	13.9	92	s.	3	1.3			10					misty	W. C. Carlisle.
Strathfield Turgiss					63.0	17.2	79	s.			1.5		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.86	758.4	29.94	760.5	62	16.7	88	nw.			6		10					raining	W. Newcombe.
Valencia, Observatory	30.02	762.5	30.05	763.3	57.6	14.2	72	nw.	14	6.3			4					d clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.80	756.9	30.19	766.8	74.5	23.6	64	w.	9.3	4.2		1 c		w.		0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	30.11	764.8	30.15	765.8	50	10.0	79	n.	3	1.3		1 c	0	n.		0.03	0.8		Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	50	10.0	78	nw.	12	5.4			10 n		nw.	0.135	3.4	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.07	763.8	30.13	765.3	49	9.4	74	nw.	14	6.3		0	0			0.08	2.0	clear	G. A. Blair.
Cornwall, Ontario	30.26	768.6	30.47	773.9	36.3	2.4	92	nw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.10	764.5	30.15	765.8	48.0	8.9		w.			5	0	5 ks			0.005	0.1	d. clouds	H. A. Johnson.
Edmonton, N. W. T.	27.46	697.5			40	4.4	65	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.22	767.6	30.25	768.3	44	6.7	93	nnw.	20	8.9		0	2 ks			0.08	2.0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.6	29.87	758.7	49	9.4	93	se.	22	9.8		5 cs	5 s		e.	0	0	fair	James Stewart.
Fredericton, N. B.	30.18	766.6	30.24	768.1	50.0	10.0	65	nw.	12.0	5.4			d			0	0	d. clouds	Prof. Thos. Harrison
Grand Manan, N. B.	30.22	767.6	30.28	769.1	49	9.4	68	nw.	12	5.4		2 k	0	nw.		0.038	1.0	fair	J. Chipman Seeley
Granton, Ontario	29.39	746.5	30.56	776.2	30.0	— 1.1	100	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.03	762.7	30.16	766.1	49	9.4	77	w.	13	5.8		2 k	0	nw.		0.218	5.5	clear	A. Allison.
Hamilton, Ontario	30.07	763.8	30.47	773.9	38.9	3.8	87	sw.			1	5 cs	0	e.		0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	30.16	766.1	30.51	774.9	40	4.4	82	nw.	1	0.4		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.87	758.7	29.91	759.7	67.0	19.4	100	nw.			2	0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.60	751.8	30.55	776.0	32.8	0.4	98	calm	0	0		0	0			0	0	blue sky	E. B. Reed.
Medicine Hat	27.50	698.5	29.72	754.9	54	12.2	69	n.	6	2.7		0	2 s			0	0	blue sky	John Ewart.
Montreal, Quebec*	30.25	768.3	30.46	773.7	46	7.8	63	nw.	8	3.6		0	0			0.01	0.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.24	768.1	30.50	774.7	36.1	2.3	95	wnw.				0	0			0	0		A. McGill, M. A.
Parry Sound, Ontario*	29.80	756.9	30.53	775.4	35	1.7	100	e.	4	1.8		2 k	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.75	755.6	30.52	775.2	34.7	1.5	89	n.			1	2 c	0			0	0	hazy	Wm. O'Connor, M.A.
Port Dover, Ontario	29.79	756.7	30.51	774.9	41	5.0	100	n.	4	1.8		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.81	757.2	30.48	774.2	38	3.3	89	ne.	8	3.6		0	0			0	0	clear	M. Payne.
Rue Appelle, N. W. T.	27.58	700.5	29.81	757.2	48	8.9	77	sw.	12	5.4		0	2 s		sw.	0	0	fair	Leslie Gordon.
Quebec, Quebec*	30.01	762.2	30.38	771.6	43	6.1	89	w.	12	5.4		10 k	0	nw.		0.01	0.3	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	30.02	762.5	30.51	774.9	32	0.0	88	calm	0	0			fg.			0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.18	766.6	30.24	768.1	48	8.9	73	nw.	12	5.4		0	0			0	0	clear	
St. John, N. B	30.07	763.8	30.22	767.6	48.0	8.9	91	s.	12	5.4		5 k	0	nw.		0.51	13.0	fair	G. Hutchinson.
Saint John's, N. F.	29.62	752.3	29.87	758.7	56	13.3	100	w.			5		10 n			0.02	0.5	cloudy	The Commar dant.
Saugeen, Ontario*	29.77	756.1	30.51	774.9	37	2.8	89	e.	7	3.1		0	0			0	0	cloudy	
Stratford, Ontario	29.20	741.7	30.55	776.0	31.0	— 0.6	96	calm	0	0		0	0			0	0	blue sky	C. J. Macgregor, M. A.
St. Pierre, N. F.			29.76	755.9	54.7	12.6		nw.			4					0.08	2.0		The Commandant.
S. W. Point, Anticosti	29.90	759.4	29.93	760.2	47	8.3	93	nw.	6	2.7		0	0			0	0	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	29.87	758.7	29.93	760.2	52	11.1	74	w.	18	8.0			10 ks		w.	0.14	3.6	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	30.15	765.8	30.55	776.0	39	3.9	96	n.	8	3.6		0	0			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.45	748.0	30.57	776.5	35.4	1.9	64	n.	1.5	0.7		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.19	766.8	30.26	768.6	48	8.9	77	nw.	21	9.4		2 k	0	nw.		0.07	1.8	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House.	29.84	757.9	29.87	758.7	65.5	18.6	92	se.	23.2	10.4		5 cs	0			0	0	hazy	I. Garfelt.
Springbok Fontein	27.87	707.9			50	10.0	80									0.04	1.0	drizzling	J. T. Eustace.
Chilian.																			
Coquimbo	30.00	762.0	30.08	764.0	50.9	10.5	94	ne.			2		10					cloudy	Samuel Redolez.
Iquique	30.03	762.8	30.06	763.5	59.0	15.0	68	s.			2							cloudy	Rafael Moreno.
Niebla	29.63	752.5	29.73	755.2	43.9	6.6	97	e.			1		5		e.			raining	Federico Köhling.
Punta Caldera	29.96	760.9	30.04	763.1	53.6	12.0	85	sw.			1		8 n		ne.			fair	Manuel Tobar.
Punta Corona	30.32	770.2	30.51	775.0				s.			0		1 k		ne.	0	0	clear	Ignacio Ayala.
Valparaiso	29.91	759.8	30.06	763.4	50.2	10.1	83	s.			0							clear	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.17	639.2																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.70	754.4	29.73	755.1	75.2	24.0	95	ene.	2.9	1.3		ck	7 k	nne.	ene.	0.220	5.6	very cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.99	761.8	30.04	763.0	60.3	15.7	66	nnw.	11	5			8						Oversergent Fischer.
Fanoe	30.10	764.4	30.11	764.9	59.9	15.5	75	wsw.	4	2			1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.28	743.7	29.32	744.8	47.1	8.4	82	sw.	4	2			8						A. O. Thorlacius.
Thorshavn	29.79	756.6	29.81	757.2	54.0	12.2	82	calm	0	0			3						Overloerer Bergh.
Vestervig	30.01	762.2	30.10	764.5	61.9	16.6	73	nnw.	4	2			5						Loerer Oesterbol.
Egyptian.																			
Cairo	29.78	756.4			84.6	29.2		ne.	6.0	2.7			4 k			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.47	748.4	30.10	764.6	69.8	21	65	calm			0	ck		nw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.59	751.6	30.06	763.6	64.4	18	78	s.			1		n		n.	0	0		M. Nicot, Director.
Avignon, Normal School	29.92	760.0	30.00	762.0	77.7	25.4	48	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.9	30.03	762.7	67.6	19.8	37	sse.			1		0			0	0	clear	M. Saillard, Director
Beauvais, Normal School	29.76	755.8	30.02	762.4	64.0	17.8	60	sse.			1		5		nw.	0	0	cloudy	M. Frère Eugène Marlé.
Besançon, Normal School	29.12	739.7	30.01	762.3	68.1	20.2	50	ne.								0	0		M. Gobin, Director.
Bordeaux, Observatory	29.76	756.0	30.02	762.4	71.1	21.7	67	sw.			1		8			0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.44	747.7	29.97	761.3	69.8	21	75	s.			1				s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.74	755.3	29.98	761.4	64.4	18.0	94	wnw.			1		10		wnw.	0.413	10.5		M. de Kermarée, Dir.
Caen, Normal School	29.87	758.8	29.96	761.0	67.3	19.6	58	se.			1		5		se.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.58	751.3	29.89	759.1	68.9	20.5	62	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.55	750.5	30.06	763.4	66.9	19.4	59	sse.			4		1	s.		0	0	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.65	727.8	29.96	760.9	73.4	23.0	50	e.			1	c; ck				0	0		M. Alluard, Director.
Cluny, Normal School	29.20	741.6	30.04	763.0	68.0	20	53	se.			1				se.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	29.26	743.1	30.10	764.5	64.0	17.8	51	e.			4		1	e.	e.	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.55	699.7	30.00	762.0	71.6	22	42	s.			2	1 c				0	0		M. Jarach, Director.
Gréasque, du Rhone	28.91	734.3	29.99	761.8	74.8	23.8	40	nw.			1		1		sw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.25	743.0	30.01	762.2	69.4	20.8	57	wsw.			1	c		nne.		0	0		M. Ablard, Directoor.
Guéret, Normal School	28.43	722.2	29.97	761.1	68.0	20	47	nw.			1	2 ck		se.		0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School.	29.68	753.9	29.96	760.9	62.6	17	90	w.			4		5		w.	0.24	6.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.44	747.8	30.07	763.7	73.6	23.1	64	ssw.			1		2 k			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.4	29.96	761.0	62.2	16.8	96	s.			2		10			0.331	8.4	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.99	736.3	30.02	762.6	66.7	19.3	45	se.			1		0			0	0	clear	M. André, Directo
Mans, Normal School	29.73	755.1	30.03	762.7	68.0	20		s.			1		5 kn		w.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.74	755.4	30.00	762.1	70.2	21.2	70	w.			1–2		1			0	0		M. Stephan, Director.
Montlouis	24.97	634.2	29.81	757.2	60.4	15.8	25	nw.	13.0	5.8			8	n.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.3	29.97	761.1	74.8	23.8	56	w.			2		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.87	758.6	30.03	762.7	68.0	20.0	69	ssw.			1–2		10 nku		sw.	0.012	0.3		M. Larocque, Director.
Perpignan, Observatory	29.90	759.5	30.01	762.3	78.4	25.8	46	se.	3.8	1.7			1	w.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.4			46.0	7.8		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.97	735.8	30.00	762.1	70.5	21.4	46	n.			1		2 k	n.	n.	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			53.1	11.7	67	w.			2		2			0	0		M. Alluard.
Rochefort, Naval Obs'y	29.97	761.2	30.00	762.0	70.5	21.4	70	calm			0		10			0.087	2.2	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	756.9	30.01	762.2	68.0	20	91	s.			1		10		s.	0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.93	709.4	30.05	763.2	60.1	15.6	76	nw.			1		1		se.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.98	761.5	30.03	762.7	66.6	19.2	63	ese.			1		5	e.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.87	758.8	30.04	763.0	67.1	19.5	46	sse.			1		1		w.	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.37	745.9	30.09	764.3	72.0	22.2	58	n.			1		5	w.		0	0	cloudy	M. Bailland, Director.
Tours	29.82	757.5	30.00	762.0	69.1	20.6	53	se.			1		2	s.	sw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.53	750.1	30.02	762.6	67.6	19.8	46	se.			2		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.91	759.6	30.06	763.4	74.7	23.7	70	nw.	7.8	3.5		ck	6 k	w.	n.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.67	728.1	30.10	764.6	59.7	15.4	55	ne.			2		2	ne.		0.059	1.5		Prof. Jnedt.
Bamberg	29.28	743.7	30.13	765.2	62.1	16.7	60	calm			0		3 k			0.012	0.3	foggy	Prof. Dr. Hoh.
Berlin	29.95	760.0	30.09	764.2	62.8	17.1	65	w.			1		6			0.004	0.1		Dr. Lensch.
Breslau	29.56	750.8	30.09	764.3	59.5	15.3	64	wnw.			4		10			0.012	0.3	rainy	Royal University Obs'y.
Carlsruhe	29.64	752.9	30.10	764.5	64.0	17.8	49	e.			1		1	e.		0	0		Albert Senz.
Cassel	29.41	747.0	30.12	765.1	64.0	17.8	60	e.			1		2	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.5	30.11	764.8	62.8	17.1	57	e.			1		2			0	0		Physical Society.
Friedrichshafen	28.66	747.9	30.05	763.3	62.6	17.0	65	sw.			1		1	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	762.9	30.13	765.2	62.2	16.8	69	wnw.			2		3	wnw.		0	0		E. Preifer.
Kiel	30.09	764.3	30.11	764.7	59.5	15.3	71	n.			1		1			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.71	754.6	30.13	765.2	61.5	16.4	68	wnw.			1		8	w.		0.512	13.0	hazy	H. Leppig, Asst.
Magdeburg	29.92	759.9	30.10	764.6	66.4	19.1	54	nnw.			1		4	w.		0.638	16.2		Weather Observatory.
Memel	30.01	762.2	30.06	763.4	70.5	21.4	62	se.			3	9 c							Issermann.
Munich	28.27	718.0	30.14	765.5	59.0	15.0	53	ne.			2		3	sw.		0.114	2.9		Central Station.
Neufahrwasser	29.97	761.2	29.98	761.6	64.4	18.0	79	sw.			2		10	sse.		0.520	13.2		A. Lothes.
Neustadt, Palatinate	29.56	750.7	30.09	764.2	63.3	17.4	60	e.			2		1	ene.		0.043	1.1		Dicknether.
Stuttgart	29.13	739.9	30.01	762.2	62.6	17.0	52	ne.			1		3	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.03	762.8	30.06	763.4	61.9	16.6	78	wnw.			3		1 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.58	751.4	29.95	760.8	81.5	27.5		sw.			1.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.61	752.2	29.66	753.4	84.1	28.9	71	wsw.	31.0	13.8			8		wsw.	0	0	d. clouds	
Deesa	29.18	741.0	29.54	750.4	84.6	29.2	59	w.	8.0	3.6			7	w.		0	0	d. clouds	
Bombay	29.78	756.3	29.81	757.2	80.4	26.9	89	w.	20.0	8.9			10		nw.	0.17	4.3	overcast	
Poona, Yarrowda	27.95	709.9	29.81	757.3	74.4	23.6	72	w.	26.0	11.6			10			0	0	overcast	
Trichinopoly	29.55	750.6	29.83	757.6	94.2	34.6	35	w.	0.8	0.4			10			0	0	overcast	
Bellary	28.29	718.6	29.74	755.3	86.0	30.0	49	nw.	14.0	6.3			10			0	0	gloomy	
Belgaum	27.30	693.4	29.87	758.6	70.8	21.6	85	wsw.	4.0	1.8			10	ese.	w.	0.05	1.3	d. clouds	
Lahore	28.87	733.3	29.60	751.8	85.8	29.9	76	n.	4.0	1.8			1			0	0		
Roorkee	28.69	728.8	29.57	751.0	89.8	32.1	74	calm	0	0			4	s.		0	0		
Agra	29.02	737.1	29.57	751.0	91.2	32.9	61	ne.					5		n.	0.21	5.3	raining	
Nagpur	28.60	726.5	29.64	752.9	77.9	25.5	79	wnw.	11.0	4.9			8		w.	0.06	1.5	d. clouds	
Jubbulpore	28.23	717.0	29.58	751.3	78.3	25.7	87	nw.	8.0	3.6			10		w.	0.18	4.6	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.18	741.3	29.55	750.6	92.1	33.4	53	nnw.	1.0	0.4			2			0	0		
Allahabad	29.23	742.3	29.53	750.1	85.7	29.8	80	calm	0	0			4			0	0	d. clouds	
Patna	29.41	747.0	29.59	751.6	85.4	29.7	76	ene.	7.0	3.1			4	ene.	ene.	0.22	5.6	d. clouds	
Hazaribagh	27.60	701.0	29.60	751.9	75.5	24.2	89	sse.	8.0	3.6			9	nnw.	sse.	1.09	27.7	showery	
Cuttack	29.54	750.3	29.62	752.4	88.1	31.2	65	calm	0	0			4			0.35	8.9	d. clouds	
Calcutta, Alipore	29.58	751.4	29.61	752.0	82.6	28.1	79	s.	5.0	2.2			6		se.	1.04	26.4	d. clouds	
Dhubri	29.53	750.0	29.64	753.0	83.4	28.6	85	calm	0	0			5			0.01	0.3	d. clouds	
Chittagong	29.62	752.4	29.71	754.7	79.0	26.1	87	se.	6.5	2.9			4			0	0	d. clouds	
Sibsagar	29.30	744.3	29.64	752.7	86.1	30.1	77	n.	2.0	0.9			3			0.05	1.3		
Jeypore	28.22	716.9	29.67	753.6	75.2	24.0	88	n.	3.8	1.7			10		n.	1.97	50.0	thud'r storm	
Zanzibar	30.04	763.0			80.6	27.0	71	wnw.	1.9	0.8			3		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.66	753.3	30.06	763.4	69.8	21.0	35	calm	0	0			2			0.016	0.4		Prof. Giovanni Clodig.
Milan	29.55	750.5	30.05	763.2	70.7	21.5	46	se.	6.3	2.8			3	ne.		0	0		Prof. G.V.Schiapparelli
Padua	29.94	760.5	30.05	763.2	69.4	20.8	52	ese.	0.7	0.3			6	wnw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.5	29.99	761.8	63.5	17.5	64	nw.	2.5	1.1			7			0	0		Prof. F. F. Denza.
Genoa	29.84	757.8	30.02	762.5	73.2	22.9	55	sw.	4.3	1.9			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.14	714.8	30.01	762.3	63.0	17.2	77	wnw.			6		4			0	0		Prof. D. C. Bruno.
Pesaro	30.00	762.1	30.05	763.3	68.5	20.3	60	ene.	7.4	3.3			6	ne.		0	0		Prof. Luigi Guidi.
Florence	29.75	755.6	30.00	761.9	73.9	23.3	40	w.			2		4			0	0		Prof. Costantino Pittei.
Leghorn	29.89	759.1	29.93	760.2	72.3	22.4	71	nw.	1.8	0.8			2			0	0		Prof. P. Monte.
Rome	29.84	757.8	30.00	762.1	76.6	24.8	47	ssw.	3.8	1.7			7			0	0		Prof. P. Tacchini.
Lecce	29.78	756.3	30.02	762.4	76.6	24.8	42	ne.	10.5	4.7			2	sw.		0	0		Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.98	761.6	79.2	26.2	63	wnw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.81	757.2	30.00	762.0	78.6	25.9	37	nw.			4		2	w.		0	0		Prof. A. Pacinotti.
Palermo	29.80	757.0	30.04	763.1	75.4	24.1	60	ne.	6.3	2.8			1			0	0		Prof. G. Caccatore.
Syracuse	29.97	761.3	30.02	762.4	78.1	25.6	53	e.	3.8	1.7			3	ne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.52	749.8	30.03	762.7	75.2	24.0	53	wsw.	2.5	1.1			4	sw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.97	761.3	30.01	762.3	68.0	20.0	94	calm			0	9c;ck	0	w.		0	0	cloudy	H. Hattori.
Awomori	29.98	761.5	30.01	762.2	63.7	17.6	90	se.	1.0	0.4		3 ck	0	e.		0	0	fair	K. Ogawa.
Hamamatsu	30.04	763.0	30.07	763.7	75.2	24.0	83	e.			4		10 s			0	0	overcast	Sekigawa & Yamazaki.
Kagoshima	29.78	756.5	29.80	756.8	81.0	27.2	68	e.			6		10 s		e.	0.301	7.8	overcast	G. Miyanonaza.
Kanazawa	29.85	758.1	29.95	760.6	73.0	22.8	84	e.	7.5	3.3		8cs;ck	1 ck			0	0	cloudy	S. Endo.
Kioto	29.81	757.1	29.98	761.5	77.0	25.3	69	ene.	3.5	1.5		0	6s;ck		se.	0.010	0.2	fair	M. Tojima.
Kochi	29.94	760.6	29.96	761.1	73.9	23.3	96	ene.	4.9	2.1			10 n		e.	0.26	6.6	raining	K. Kusunose.
Misaka	29.84	758.0	29.87	758.7	79.5	26.4	77	ese.			4		9ks;s		ese.	0.063	1.6	cloudy	K. Masusaki.
Miyako	29.97	761.3	30.08	764.1	66.7	19.3	91	s.	3.6	1.6		0	8 s			0.004	0.1	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.60	751.8	29.79	756.6	80.7	27.1	63	ne.	1.2	0.5		3 cs	7 s	sw.		0	0	overcast	S. Takehayasu.
Niigata	29.94	760.5	29.97	761.2	74.9	23.8	72	se.	10.6	4.7		4cs;c	1 s;ks	w.	w.	c	0	½ cloudy	Satoo & Tomikawa.
Nobiru	30.05	763.3	30.07	763.7	70.7	21.5	96	sse.	13.7	6.1			10ks;s			0.125	3.2	covered	Yoslino & Midzushina.
Numazu	30.03	762.7	30.07	763.7	71.7	22.1	86	nne.			2	9ck;cs	1 s	s.		0	0	cloudy	K. Kaneda.
Osaka	29.94	760.6	29.96	761.0	79.2	26.2	78	e.	7.2	3.2			10ck;s		s.	0	0	cloudy	H. Omura.
Sakai	29.87	758.8	29.88	759.0	77.2	25.1	88	calm			0	10 cs	0	nw.		0	0	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.67	753.5	29.81	757.2	79.4	26.3	81	ne.			2		10 s		ne.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.00	762.1	30.08	764.0	69.0	20.9	99	n.	4.9	2.1			10 n			0.106	2.7	raining	The Staff.
Wakayama	29.89	759.1	29.94	760.4	80.1	26.7	63	var.	0.8	0.4		1 ck	9ckks	s.	se.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	74.9	23.8	69	w.	8.5	3.8		0	4 k;n			0	0	fair	The Staff.
MEXICAN.																			
Leon	24.32	617.7	29.98	761.5	59.0	15.0	92	nne.	0.9	0.4		0	2cks			inap.	inap.	clear	Prof. M. Leal.
Mazatlan																			F. Quijano, C. E.
Sub-series.																			
Altata					78	25.6	82	s.			1	2 c	1 k	e.	s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.07	763.8	30.07	763.8	65.1	18.4		sse.			4					0	0		
Groningen	30.00	763.5	30.11	764.9	59.2	15.1		s.			1					0	0		
Helder	30.08	764.0	30.08	764.0	60.6	15.9		e.			2					0	0		
Hellevoetsluis	30.08	763.9	30.08	763.9	63.5	17.5	61	sse.			2					0	0		
Utrecht	30.06	763.5	30.11	764.7	63.9	17.7	62	se.			2		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.95	760.8			76.8	24.9	86	nne.	0.5	0.2			9			0.039	1.0		Lt.J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.03	762.8	30.10	764.4	60.4	15.8	66	ssw.	9.8	4.4			3			0	0		
Brono	30.11	764.8	30.15	765.8	66.2	19.0	45	sw.			4		2			0	0		
Christiania	30.00	762.1	30.15	765.8	63.3	17.4	59	ese.	4	2			6			0	0		
Gjesver	30.27	768.9	30.30	769.5	50.2	10.1		sw.			2		9						
Lodingen	30.19	766.9	30.24	768.1	56.1	13.4	54	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					70.5	21.4	92	e.	15.4	6.9			9			0.449	11.4		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.97	761.3	30.06	763.5	73.2	22.9	73	e.	1.3	0.6			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.74	755.4	30.07	763.7	77.0	25.0	53	n.	13.0	5.8			2			0	0		The Staff.
Ponta Delgada, Azores	30.12	765.1	30.19	766.9	74.8	23.8	78	calm	0	0			3			0	0		
Saint Paul de Loando	29.80	756.9	30.00	762.1	74.1	23.4	73	ene.			2		10			0	0		
San Salvador, Congo	28.15	715.0	30.00	761.9	75.4	24.1	58	s.			2		10						
Serra da Estrella	25.41	645.4	29.98	761.4	66.6	19.2	42	nw.	6.9	3.1			1			0	0		
RUSSIAN.																			
Akmolinski																			Major K. Lasarew.
Archangel	30.32	770.0	30.34	770.5	55.9	13.3	94	nw.	4	2			10			0.150	3.8	raining	Capt. Sseliwerstow
Ashurada	29.96	761.0	29.87	758.6	84.0	28.9	69	wnw.	16	7		0	5 kn			0.134	3.4		
Astrakhan	30.32	770.1	30.25	768.3	69.8	21.0	23	ene.	18	8		0	2			0	0	hazy	Capt. Wisganow.
Baku	30.05	763.2	30.00	762.0	72.1	22.3	75	n.	22	10		0	8 ks			0.024	0.6		
Barnaul	29.59	751.6	30.08	764.1	60.8	16.0	47	ne.	9	4			0			0	0		Meteorological Obs'y
Bielosersk	29.94	760.5	30.39	771.9	78.6	25.9	59	s.	4	2		2 ck	0			0	0		
Dorpat	29.99	761.7	30.22	767.6	74.1	23.4	53	ese.	7	3		8 c	0			0	0		Observatory.
Ekaterinburg	29.38	746.3	30.34	770.5	63.9	17.7	45	sw.	9	4		1 ck	0			0	0		Meteorological Obs'y.
Elisawetgrad	29.57	751.0	30.00	761.9	79.7	26.5	27	ese.	34	15		0	1 k			0	0		
Irkutsk	28.42	721.8	30.06	763.5	49.8	9.9	76	calm			0		9			blank	blank		
Kasalinsk					73.4	23.0	35	n.	4	2		5 c	0						
Kasan	30.19	766.7	30.45	773.4	68.9	20.5	34	ne.	4	2		3 c	0			0	0		Observatory.
Kem	30.31	769.8	30.36	771.1	57.7	14.3	85	nw.	4	2		0	6 ks			0.059	1.5		
Kertch	29.81	757.1	29.83	757.7	74.5	23.6	78	e.	13	6			10 n			0	0		Lagorio & Sastyrea.
Kieff	29.42	747.2	30.02	762.6	70.1	24.5	26	e.	18	8		0	0			0	0		Observatory.
Koslov	29.87	758.7	30.36	771.2	72.1	22.3	42	ese.	4	2		0	1 s			0	0		
Libau	30.01	762.2	30.03	762.8	70.5	21.4	59	ese.			5		9			0.098	2.5	light clouds	E. Quass.
Lugan	29.98	761.4	30.17	766.4	75.6	24.2	22	ene.	45	20			0			0	0		Meteorological Obs'y.
Moscow	29.94	760.5	30.40	772.1	72.9	22.7	38	calm	0	0		0	0			0	0		Meteorological Obs'y
Nikolaiev	29.85	758.2	29.92	760.0	79.3	26.3	47	ese.	45	20		0	4 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					44.6	7.0	78	nnw.	2	1		0	1 s						Iwanow.
Pekin, China	29.65	753.0	29.79	756.6	68.0	20.0	84	calm	0	0			9 n			0.051	1.3		Physical Observatory.
Petro-Alexandrovsk	29.62	752.3	29.95	760.8	75.9	24.4	32	nw.	1.1	0.5			10 k			0	0		
Petrozavodsk	30.07	763.8	30.26	768.6	76.5	24.7	40	wsw.	16	7		0	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Pinsk	29.57	751.0	30.05	763.3	70.3	21.3	61	e.	9	4	.....	0	8 ks	.....	.....	0	0	.....	
Poti	29.80	757.0	29.84	757.8	83.7	28.7	69	nw.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	30.26	768.7	30.29	769.3	80.2	26.8	36	s.	2	1	.....	0	0	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27 59	700.7	29.97	761.2	72.5	22.5	48	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.34	745.2	29.98	761.5	63.9	17.7	28	n.	16	7	.....	.....	1	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.61	752.2	29.82	757.4	79.3	26.3	61	sw.	20	9	.....	0	5 ks	.....	.....	blank	blank	.....	
Starol Bykhov	29.65	753.0	30.18	766.5	77.4	25.2	69	se.	25	11	.....	2 ck	0	.....	.....	0	0	light clouds	
Tashkend Laboratory	28.30	718.9	29.89	759.2	78.8	26.0	25	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.54	725.0	29.88	759.0	82.0	27.8	41	se.	11	5	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.39	695.8	29.82	757.3	65.8	18.8	55	calm	0	0	.....	0	6 n	.....	.....	0	0	.....	
Viatka	29.80	756.9	30.42	772.7	66.2	19.0	62	sw.	7	3	.....	.....	7	.....	.....	0	0	.....	
Warsaw	29.61	752.1	30.03	762 7	58.6	14.8	85	s.	4	2	.....	.....	10 n	.....	.....	0.004	0.1	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.87	758.8	30.16	766.0	56.5	13.6	60	sw.	2	1	.....	.....	10	.....	.....	0	0	.....	M. O. Marks.
SCOTTISH.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.7	30.01	762.3	78.4	25.8	71	ese.	4.3	1.9	.....	3 cs	0	.....	.....	0	0	misty	Antonio Molins.
Bilbao, Met. Obs'y	30.00	762.1	30.06	763.6	78.1	25.6	57	nw.	2.5	1.1	.....	2	0	w.	.....	0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.11	688.6	29.91	759.7	78.8	26.0	33	nw	2.5	1.1	.....	.....	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.6	29.91	759.7	86.5	30.3	23	sw.	11.4	5.1	.....	0	0	.....	.....	0	0	clear	The Staff.
Murcia, Met. Obs'y	29.84	757.9	29.96	760.9	90.0	32.2	52	s	4.3	1.9	.....	3	2	nw.	.....	0	0	clouds	Olayo Diaz, Director.
Oviedo	29.25	743.0	30.01	762.3	68.9	20.5	75	w.	7.2	3.2	.....	4 n	4 n	w.	w.	0.315	8.0	.....	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.03	762.8	70.2	21.2	80	sw.	0.7	0.3	.....	.....	10	.....	.....	0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.90	759.4	29.96	761.1	75.6	24.2	90	s.	1.1	0.5	.....	cs	k	wnw.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	758.0	29.90	759.4	81.2	27.3	86	ssw.	7.7	3.4	.....	6 cs	2 ks	.....	sw.	0	0	foggy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.8	75.6	24.2	71	sw.	8.5	3.8	.....	1	3	w.	sw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.6	30.04	762.9	81.0	27.2	84	calm	0	0	.....	1 s	2 k	s.	s.	0.008	0.2	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.34	770.6	30.38	771.6	52.5	11.4	88	se.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	30.28	769.0	30.33	770.3	63.0	17.2	59	s.	.....	.....	2	.....	4	.....	.....	0.012	0.3	.....	
Hernosand	30.26	768.5	30.31	769.8	53.6	12.0	91	e.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Stockholm	29.91	759.7	30.09	764.2	58.1	14.5	92	nne.	.....	.....	6	.....	10	.....	.....	0.051	1.3	.....	
Wisby	29.90	759 5	29.96	761.0	65.8	18.8	77	sse.	.....	.....	4	.....	7	.....	.....	0.280	7.1	.....	
Sub-series.																			
Upsala	30.02	762.4	30.10	764.6	55.8	13.2	96	sw.	10.1	4.5	.....	.....	10	.....	ne.	0.004	0.1	.....	H.H.Hildebrandesson.
SWISS.																			
Geneva	28.64	727.5	30.05	763.2	60.8	16.0	63	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.95	760.7	71.2	21.8	72	n.	9	4.0	.....	.....	5	.....	nw.	0.075	1.9	.....	The Observatory.
Valona	.....	.....	30.19?	766.9?	74.3	23.5	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.91	759.6	84.6	29.2	55	sw.	.....	.....	3	.....	7 k	.....	se.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.77	679.9	.....	.....	62	16.7	72	w.	.....	.....	1	.....	9 n	.....	nw.	0	0	threatening	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.43	772.9	30.51	774.9	46.5	8.1	63	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.78	756.4	30.44	773.2	40	4.4	89	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	29.95	760.7	46	7.8	86	calm	0	0	.....	0	0	.....	.....	0.05	1.3	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.10	688.3	29.95	760.7	54	12.2	69	sw.	10	4.5	.....	0	4 s	.....	sw.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	29.02	737.1	30.10	766 8	59.5	15.3	39	ne.	9	4.0	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.38	771.6	30.39	771.9	50	10.0	72	n.	11	4.9	.....	8 c	0	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.18	766.6	62.0	16.7	50	n.	14	6.3	.....	5 cs	2 s	s.	n.	0	0	fair	D. J. Young.
Baltimore, Maryland	30.42	772.7	30.47	773.9	49	9.4	63	n.	7	3.1	.....	3 cs	0	w.	.....	0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.36	771.1	30.38	771.6	55.0	12.8	66	ne.	27	12.1	.....	8 ck	0	w.	.....	0	0	cloudy.	G. A. Hill.
Behring Id., Behring Sea	29.57	751.1	29.59	751.6	42.8	6.0	78	w.	11	4.9	.....	0	2 s	.....	.....	0.1?	3.?	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.40	721.3	29.99	761.7	52.0	11.1	83	calm	0	0	.....	3 k	3 s	nw.	nw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	30.06	763.5	55	12.8	86	calm	0	0	.....	.....	9 s	.....	sw.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.14	714.7	29.94	760.5	53	11.7	86	s.	4	1.8	.....	2 cs	0	nw.	.....	inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.40	772.1	30.43	772 9	50	10.0	64	ne.	22	9.8	.....	2 cs	c	nw.	.....	inap.	inap.	clear	J. T. Elker.
Boise City, Idaho	27.16	689 9	29.92	760.0	48	8.9	.....	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	30.27	768.8	30.42	772.7	45.0	7.2	68	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.98	761 5	30.04	763.0	72.0	22.2	82	se.	1	0.4	.....	0	7 s	.....	e.	0.01	0.3	fair	E. C. Imlay.
Buffalo, New York	29.73	755 1	30.46	773.7	40.4	4.7	82	ne.	3	1.3	.....	0	sk.	.....	.....	0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.99	710.9	29.97	761.2	47.7	8.7	80	s.	2	0.9	.....	0	sk	.....	.....	0	0	clear	A. Schneider.
Cairo, Illinois	29.87	758.7	30.27	768.8	51.1	10.6	79	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.70	754.4	29.90	759.4	57.4	14.1	98	s.	20	8.9	.....	0	7 s	.....	s.	0.28	7.1	fair	O. D. Stewart.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	60.0	15.6	81	ne.	32	14.3	.....	4 ck	6 ks	sw.	ne.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.36	771.1	30.39	771.9	53.0	11.7	61	ne.	17	7.6	.....	5 cs	0	n.	.....	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.30	744.2	29.98	761.5	60	15.6	87	nw.	.....	.....	2	5 k	0	nw.	.....	0	0	fair	J. J. McLean.
Cedar Keys, Florida	29.86	758 4	29.88	758.9	71	21.7	76	n.	16	7.2	.....	0	0.	.....	.....	1.45	36.8	clear	G. W. Davis.
Charleston, S. Carolina	29.89	759.2	29.94	760.5	63.5	17.5	73	n.	20	8.9	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.24	768.1	55.0	12.8	49	ne.	14	6.3	.....	6 cs	0	e.	.....	0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.40	746.7	30.21	767.3	60.0	15.6	60	ne.	5	2.2	.....	3 k	0	n.	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.02	762.5	49.8	9 9	51	nw.	10	4.5	.....	0	0	.....	.....	0.04	1.0	clear	E. McGovern.
Chicago, Illinois	29.70	754.4	30.39	771.9	50.0	10.0	71	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.31	769.9	30.33	770.4	54	12.2	86	ne.	28	12.5	.....	.....	9 ks	.....	ne.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.71	754.6	30.36	771.1	47.0	8.3	82	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.71	754.6	30.43	772.9	42.8	6.0	72	se.	5	2.2	.....	4 ck	0	e.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenan.
Columbus, Ohio	29.51	749.5	30.35	770.9	43	6.1	74	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.20	716.3	30.10	764.5	65.2	18.4	90	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	J. McGlone.
Custer, Fort, M. T.	26.87	682.5	29.99	761.7	49	9.4	80	s.	0	2.7	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.68	753.9	30.33	770.4	45	7.2	83	e.	6	2.7	.....	6 cs	fg.	w.	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.31	642.9	30.01	762.2	62	16.7	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.97	761.2	62	16.7	73	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	D. Moore.
Deadwood, Dakota	25.44	646.2	30.00	762.0	53	11.7	77	nw.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	F. Des Willson.
Delaware Breakwater, Del	30.37	771.4	30.39	771.9	56	13.3	93	ne.	32	14.3	.....	4 k	0	ne.	.....	0	0	fair	T. S. Townsend.
Denver, Colorado	24.85	631.2	29.96	761.0	55.2	12.9	59	s.	8	3.0	.....	0	0	.....	.....	inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.40	746.7	30.29	769.4	51	10.6	66	s.	3	1.3	.....	7ck;cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.74	755.4	30.43	772.9	42.0	5.6	82	ne.	0	2.7	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.54	699.5	30.09	764.3	60	15.6	87	se.	12	5.4	.....	.....	10 s	.....	se.	0.21	5.3	cloudy	J. H. Bryce.
Dubuque, Iowa	29.66	753.4	30.36	771.1	44	6.7	83	se.	2	0.9	.....	0	8 s	.....	s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.46	748.3	30.20	767.1	52	11.1	86	calm	0	0	.....	0	9 s	.....	nw.	0.05	1.3	cloudy	N. B. Conger.
Eastport, Maine	30.17	766.3	30.24	768.1	49.0	9.4	60	nw.	16	7.2	.....	0	1 s	.....	w.	0.01	0.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.08	764.0	62	16.7	49	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.03	762.7	64.0	17.8	65	calm	0	0	.....	0	5 k	.....	e.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.76	755.9	30.48	774.2	46	7.8	76	se.	8	3.6	.....	8 cs	0	ne.	.....	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.73	755.1	30.39	771.9	41.0	5.0	87	sw.	3	1.3	.....	3 c	3 s	sw.	sw.	0	0	fair	George Heathcote.
Galveston, Texas	30.02	762.5	30.06	763.5	75	23.9	71	e.	15	6.7	.....	5 ck	hz.	sw.	.....	0	0	fair	E. O'C. Macnerney.
Grand Haven, Michigan	29.76	755.9	30.42	772.7	43.0	6.1	83	e.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.28	642.1	29.88	758.9	61.3	16.3	66	n.	1	0.4	.....	0	0	.....	.....	0.26	6.6	clear	Chas. A. Read.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	65.0	18.3	100	ne.	36	16.1	.....	.....	10 n	.....	e.	0.32	8.1	heavy rain	R. M. Crawford.
Helena, Montana	25.81	655.6	29.98	761.5	59	15.0	60	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.

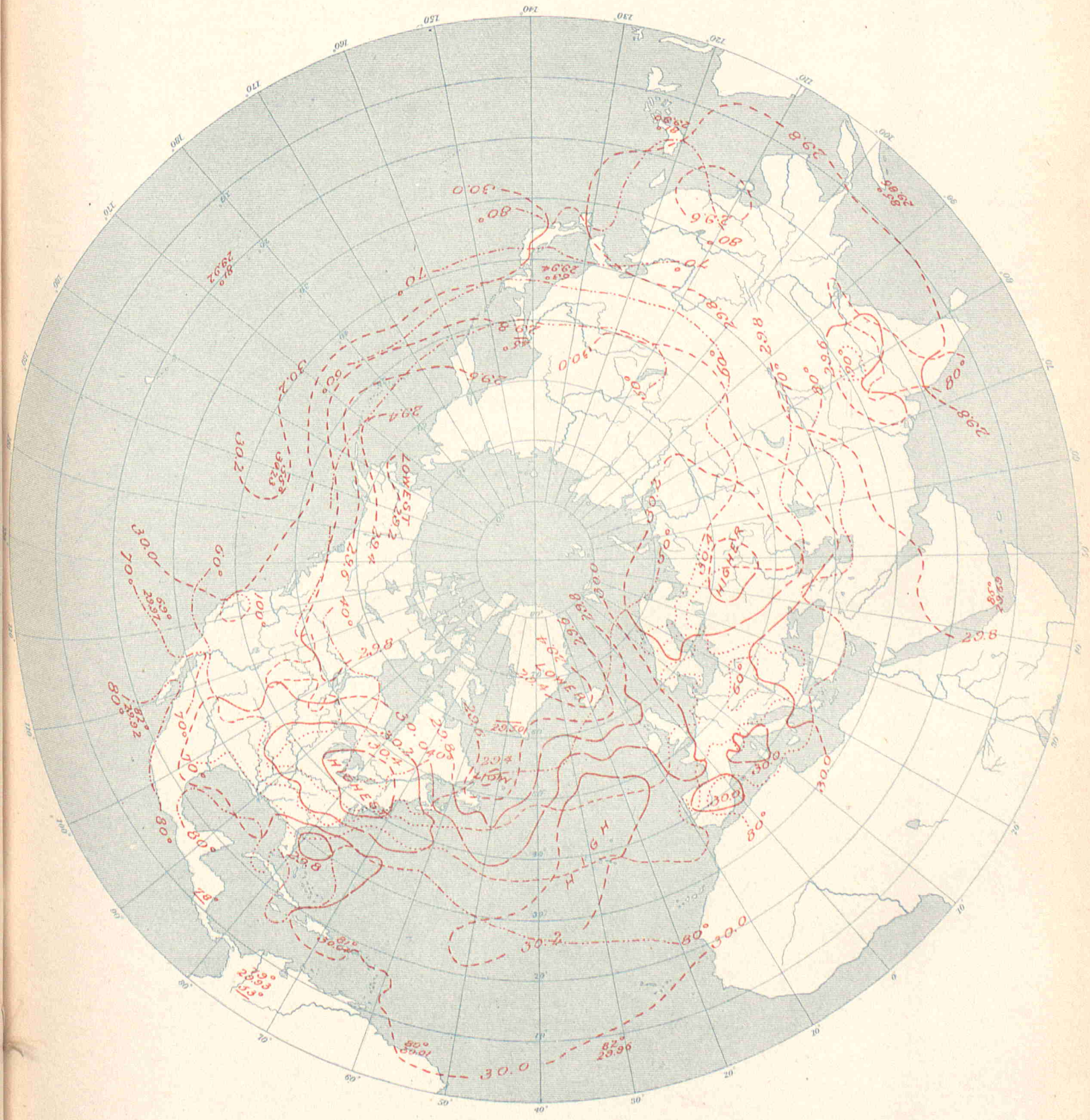
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.64	727.4	30.02	762.5	51.7	10.9	78	se.	12	5.4		7 cs	0	se.		inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.55	750.6	30.33	770.4	45.4	7.4	76	ne.	2	0.9		0	0			0	0	clear	C. F. R. Wappenhaus.
Indianola, Texas	30.02	762.5	30.05	763.3	76.1	24.5	89	n.	12	5.4		0	hz.			0	0	clear	I. A. Reed.
Jacksonville Florida	29.92	760.0	29.96	761.0	68.0	20.0	63	n.	15	6.7		4 cs	0			1.24	31.5	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.67	753.6	30.32	770.1	44.0	6.7	83	e.	7	3.1		5 c	0	sw.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.90	759.4	29.92	760.0	83.0	28.3	74	nw.	5	2.2		0	4k;ks		nw.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.20	767.1	30.22	767.6	66.5	19.2	68	ne.	39	17.4			10 ks		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.20	741.7	30.22	767.6	57.8	14.3	51	ne.	7	3.1		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.55	750.6	30.32	770.1	48	8.9	71	s.	8	3.6		0	4 s			0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.38	746.2	30.26	768.6	51	10.6	80	calm	0	0		10 ck	0	sw.		0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.14	740.1	29.97	761.2	61.0	16.1	72	ne.	1	0.4			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.88	758.9	30.19	766.8	57	13.9	69	calm	0	0		0	3 s			0	0	clear	W. U. Simons.
Los Angeles, California	29.57	751.1	29.96	761.0	59	15.0	93	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.72	754.9	30.27	768.8	50	10.0	74	n.	9	4.0		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.69	754.1	30.37	771.4	54	12.2	55	ne.	7	3.1		3 c	0	nw.		0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.76	755.9	30.41	772.4	43.0	6.1	87	sw.	3	1.3		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.07	763.8	30.08	764.0	63.0	17.2	93	ne.	44	19.7			10 n		ne.	0.20	5.1	light rain	William Daly.
Maginnis, Fort, Montana	25.58	649.7	29.98	761.5	52	11.1	80	sw.	10	4.5		2 c	0	sw.		0	0	clear	F. Burke.
Marquette, Michigan	29.63	752.6	30.35	770.9	47.0	8.7	68	w	3	1.3		6 c	0	w.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.86	758.4	30.20	767.1	55	12.8	69	n.	8	3.6		5 cs	0	w.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.65	753.1	30.39	771.9	42	5.6	82	w	4	1.8		3 c	sk.	w.		0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.8	70	21.1	79	n.	8	3.6		0	hz.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.90	759.4	30.13	765.3	68	20.0	61	e.	4	1.8		0	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.04	737.6	30.04	763.0	47	8.3	86	se.	8	3.6		5 cs	0	se.		0	0	fair	H. Bessant.
Mt. Washington, N. H.	24.03	610.4	30.18	766.6	24.0	— 4.4	94	nw.	30	13.4		0	0			0.27	6.9	clear	S. W. Beall.
Nashville, Tennessee	29.63	752.6	30.20	767.1	53.0	11.7	72	ne.	4	1.8		0	7 k		se.	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.33	770.4	30.44	773.2	43	6.1	68	n.	10	4.5		2 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.39	771.9	30.44	773.2	50	10.0	64	n.	6	2.7		1 c	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	74.0	23.3	68	e.	8	3.6		0	hz.			0	0	clear	M. Herman.
New York, New York	30.28	769.1	30.45	773.4	51	10.6	59	n.	6	2.7		4 cs	0			0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.25	768.3	30.28	769.1	60.0	15.6	75	ne.	18	8.0			10 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.17	690.1	30.05	763.3	57.6	14.2	85	s.	8	3.6			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.88	758.9	29.92	760.0	59.0	15.0	93	s.	4	1.8			10 s			0.73	18.5	cloudy	J. Dascomb.
Omaha, Nebraska	29.08	738.6	30.25	768.3	53.1	11.7	74	s.	2	0.9		4 ck	0	s.		0	0	fair	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	30.18	766.6	30.50	774.7	45.5	7.5	64	se.	4	1.8		0	1 k			0	0	clear	J. G. Linsley
Palestine, Texas	29.61	752.1	30.16	766.1	65.0	18.3	73	ne.	10	4.5		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.05	763.3	74.7	23.7	57	ne.	12	5.4		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.37	771.4	30.47	773.9	48	8.9	86	ne.	7	3.1		2 c	hz.	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.10	459.7	30.08	764.0	30	— 1.1	78	ne.	11	4.9		0	0			0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.62	752.3	30.42	772.7	43.3	6.3	75	ne.	1	0.4		0	0			0	0	clear	G. O. Schaeffer.
Poplar River, Montana					46	7.8	76	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.76	755.9	30.44	773.2	40.0	4.4	82	e.	3	1.3		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.34	770.6	30.39	771.9	50.0	10.0	64	w.	5	2.2		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.85	758.2	29.92	760.0	61.5	16.4	87	sw.	9	4.0			10 s		sw.	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.85	631.2	29.95	760.7	54	12.2	83	sw.	2	0.9		0	0			0.30	7.6	clear	N. D. Lane.
Provincetown, Mass	30.36	771.1	30.39	771.9	54	12.2	52	n.	12	5.4		1 cs	0	w.		0.05	1.3	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.54	750.3	29.89	759.2	67	19.4	51	n.	5	2.2		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.43	747.5	29.98	761.5	53.5	11.9	85	ne.	1	0.4		0	sk.			0	0	clear	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	61.0	16.1	78	se	6	2.7		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.72	754.9	30.30	769.6	47.5	8.6	77	ne.	7	3.1		1 c	fg.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.12	739.6	29.15	740.4	44	6.7	93	se.					10 n			0.11	2.8	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.38	746.2	30.23	767.8	51.0	10.6	86	se.	9	4.0			10 s		se.	inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.03	737.3	29.90	759.4	50	10.0	93	s.	10	4.5		0	3 s			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.66	651.8	29.91	759.7	65	18.3	42	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.86	758.4	29.93	760.2	63.5	17.5	84	ne.	2	0.9			10 s			0	0	cloudy	F. R. Day.
Sanford, Florida	29.86	758.4	29.91	759.7	71	21.7	79	nw	12	5.4			10 s			0.17	4.3	cloudy	J. B. Marbury.
Sandusky, Ohio	29.77	756.1	30.44	773.2	46	7.8	76	s.	10	4.5		0	0			0	0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.43	772.9	30.46	773.7	50.0	10.0	64	ne.	24	10.7		2 c	0	ne.		0	0	clear	B. A. Blundon.
San Francisco, California	29.88	758.9	29.95	760.7	57.5	14.2	93	sw.	8	3.6			fg.			0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.86	759.2	29.98	761.5	63	17.2	56	n.	14	6.3		8cs;ck	2 ks	se.	n.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.76	699.3	29.96	761.0	52	11.1	61	w.	2	0.9		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.82	760.0	30.16	766.1	61.3	16.3	81	ne.	4	1.8		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	735.1	30.16	766.1	59	15.0	87	n.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.97	755.1	29.79	756.7	49	9.4	82	w.	10	4.5			10 ks		w.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.74	755.4	30.21	767.3	57.1	13.9	69	calm	0	0		3 c	0	w.		0	0	clear	J. B. Campbell.
Smithville North Carolina	29.99	761.7	30.03	762.7	60.0	15.6	93	ne.	20	8.9			10 n		ne.	0.17	4.3	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.95	760.7	58	14.4	77	s.	4	1.8		7 c	0	w.		0	0	fair	John F. Hemenway.
Springfield, Illinois	29.68	753.9	30.35	770.9	43.3	6.3	72	e.	5	2.2		5 c	0	w.		0	0	fair	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.08	687.8	30.04	763.0	63	17.2	90	calm	0	0		2 ck	4 s			0	0	fair	Louis Dorman.
Thomas, Camp, Arizona					63	17.2	73	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.73	755.1	30.41	772.4	45	7.2	76	nw.	2	0.9		0	fg.			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.40	746.7	29.42	747.3	50	10.0	71	s	12	5.4		0	0			0.12	3.0	clear	Samuel Applegate.
Verde, Fort, Arizona					62.5	16.9	54	n.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.89	759.2	30.14	765.5	59.0	15.0	84	n.	1	0.4		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.36	771.1	30.47	773.9	45.5	7.5	73	n.	8	3.6		4 cs	0	sw.		0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.13	663.7	29.95	760.7	50.5	13.6	93	nw.	3	1.3			10 s			0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	60.0	15.6	87	ne.	13	5.8			10 n		n.	0.16	4.1	light rain	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.81	731.8	30.10	764.5	53.1	11.7	70	s.	5	2.2		3 c	0	sw		0	0	clear	E. H. Thompson.
Yuma, Arizona	29.01	752.1	29.75	755.6	72.6	22.6	51	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		w.			1		3 k		e.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.07	560.5			53.1	11.7	79	sw.	4	2		2 k	7ks;s	w.	w.	0.031	0.8		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.99	761.7	77.2	25.1	88	calm	0	0		10 ck	0	n.		0.99	25.1	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	80	26.7	82	se.			2	4 ck	4 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.37	746.0	29.93	760.2	79	26.1	85	calm			0	3 ck	1 ks	calm	calm	0	0	clear	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					78	25.6	90	ne			1	8 ck				0.02	0.5	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	29.81	757.2	29.88	758.9	39.5	4.2	95	w.	11	4.9		2 c	1 s	w.	w.	0	0	fair	Fortescue & W[illegible]

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 39° 55', E. 23° 40'	29.90	759.4	78	25.6	78	sse.			1		1	sse.				sm'h		blue sky.
H. M. S. Coquette, N. 39° 38', E. 19° 56'	30.09	764.3	75	23 9		ese.			1		2	calm				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0	81.5	27.5	81	ese.			2		3	ese.						d. clouds.
H. M. S. Flamingo, N. 50° 43', W. 54° 10'	29.43	747.5	54	12.2	87	sw.			1		6					2	sw.	
H. M. S. Griffon, N. 20° 10', W. 73° 30'	30.01	762.2	83	28.3	91	ene.			2		3	e.				1	ne.	d. clouds.
H. M. S. Iris, off Port Said, Egypt	29.94	760.5	81	27.2	78	n.			2		2	nnw.				1	nne.	d. clouds.
H. M. S. Tenedos, St. Johns, N. F	29.70	754.4	55	12.8	100	w.			6		10	wsw.				4	wnw.	misty.
U. S. Navy Yard, Portsmouth, N. H*	30.34	770.6	47	8.3	70	nw.	13	5.8			0							clear.
U. S. S. Alliance, Sydney, N.S	29.91	759.7	53	11.7	73	nw.			3		8		calm	light	light	mod.	w.	cloudy.
U. S. S. Galena, Brooklyn, N.Y	30.47	773.9	50	10.0	79	n.			3		0					sm'h		clear.
U. S. S. Jamestown, N. 33° 00', W. 15° 45'	30.06	763.5	71	21.7	95	nne.			3		10		ne.			sm'h	ne.	overcast.
U. S. S. Kearsarge, N. 39° 23', W. 25° 54'	30.36?	771.1?	69	20.6	90	ne.			5		10		ne			mod.	ne.	cloudy.
U. S. S. Lancaster, Port Mahon, Minorca, Spain	30.04	763 0	78	25.6	73	sw.			1		2		sw			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass	30.38	771.6	55	12.8	87	nnw.			4		2		nnw.					clear.
U. S. S. Powhatan, N. 40° 44', W. 67° 34'	30.38?	771.6?	57	13.9	81	nne.			4		8							cloudy.
U. S. S. Quinnebaug, N. 36° 41' W. 9° 08'			66	18.9	94	nne.			3-4		2		nne.			sm'h	n.	fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.49	774.4	51	10.6	79	nne.			3		2		ne.	0	0	sm'h		fair.
U. S. S. Swatara, Port Hood, C.B	29.94	760.5	53	11.7	80	nw.			6		8		nw.	h'vy	h'vy	mod	n.; w.	cloudy.
U. S. S. Vandalia, Georgetown, P.E.I	29.96	761.0	52	11.1	86	nw.			5		10							cloudy.
U. S. S. Yantic, N. 56° 34', W. 52° 24'	29.52	749.8	46	7.8	84	w.			3-4		10					mod.	w.	overcast.
S. S. British Princess, N. 41° 25', W. 67° 10' †	30.29	769.4	60	15.6		nne.			4		3		ne.	0	0	mod.	ne.	clear.
S. S. Lord Clive, N. 49° 56', W. 30° 29'	30.27	768.8				s.			4		9		sw.	0	0	high	nw.	cloudy.
S. S. Lord Gough, N. 51° 10', W. 16° 20'	30.08	764.0	56	13.3		nw.			4		5		nw.	0	0	mod.	nw.	fair.
S. S. Ohio, Liverpool, Eng†	29.85	758.2	58	14.4	?	wnw.			1		10		nnw.	12 h'r	12 h'r			drizzling.
S. S. Grecian, N 56° 34' W. 26° 41'	29.98	761.5	63	17.2	78	wsw.			3		9		w.	0	c	mod	w.	cloudy
S. S. Nova Scotian, Halifax, N. S	30.15	765.8	53	11.7		wnw.			4		5		wnw.					fair.
S. S. Polynesian, N. 56° 03', W. 26° 37'	30.01	762.2	54	12.2		w.			7		7		w.	0	0	r'gh	w.	cloudy.
S. S. Prussian, N. 42° 55', W. 61° 26'	30.23	767.8	52	11.1		nw.			4		8		nnw.	0	0	long	sw.	
S. S. Scandinavian, N. 54° 54', W. 16° 37'	30.03	762.7	54	12.2		wnw.			4		3		wnw.	sh'rs	sh'rs	long	w.	showery.
S. S. Alvo, Kingston, Jamaica, W.I *	29.84?	757.9?	83	28.3		se.			3		4		e.	0	0			fine.
S. S. Andes, N. 39° 30', W. 74° 00' *†	30.40	772.1	62	16.7		nne.			3		1		nne.	0	0			clear.
S. S. Avilla, Mayagues, Porto Rico, W.I			84	28.9		calm			0		0			rain	rain			
S. S. Australia, N. 39° 00', W. 20° 18' *†	30.15	765.8	64	17.8		calm			0		8		ne.	0	0	h'vy	wnw.	
S. S. Devonia, N 53° 08', W. 28° 10' *†	30.20	767.1	54	12.2		w.			5		7?		w.			h'vy	w.	clear ?
S. S. Dorian, Gibraltar, Mediterranean	30.00	762.0	76	24.4		calm			0		0			0	0			clear.
S. S. Furnessia, N. 41° 46' W. 62° 08' †	30.23	767.8	61	16.1	71	nw.			6		7?		n.	0	0	mod.	ne.	overcast.?
S. S. Landaff City, N. 48° 17', W. 31° 35'†	30.23	767.8	60	15.6		sw.			5		9		sw.	0	0	mod.	nw.	cloudy.
S. S. Gallia, N. 48° 00', W. 37° 12'	30.00	762 c	65	18.3	89	s.			6		10		s.	shr's	shr's	mod	sw.	squally.
S. S. Pavonia, N. 41° 35', W. 61° 06'*	30.17	766.3	64	17.8	78	wnw.			6		8		nw.	0	0		nw.	cloudy.
S. S. Samaria, Boston, Mass			47	8.3		w.			6					0	0			clear.
S. S. Canada, N. 44° 09', W. 58° 48'	30.18?	766.6?	51.8	11		w.			6		10		w.			r'gh		covered.
S. S. France, N. 49° 36', W. 15° 11'†	30.11?	764.7?	55.4	13		nw.			5		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. Wisconsin, N 50° 37', W. 32° 00'			61	16.1		s.			3		3		s.	0	0	long	nnw.	fair.
S. S. Wyoming, N. 51° 13' W. 16° 32'	30.14	765.5	57	13.9		wnw.			5		4		wnw.	0	0	long	wnw.	fair.
S. S. Bohemia, N. 40° 06', W. 73° 34' †	30.56?	776.2?				n.			5		3		n.	0	0	sm'h	ne.	fine.
S. S. Frisia, N. 50° 11', W. 19° 30'	30.27	768.8				nnw.			5		4		nw.	2 h'r	2 h'r	r'gh	nw.	squally.
S. S. Gellert, New York, N.Y	30.44	773.2	57	13.9	69	nnw.			3		1		ne.	0	0			clear.
S. S. Silesia, N. 49° 55, W. 16° 20'	30.30?	769.6?	58.5	14.7		nnw.			4		7		nnw.	0	0	mod.	nnw.	cloudy.
S. S. Westphalia, N. 40° 48', W. 69° 19'			62	16.7	83	n.			4		1		n	0	0	sm'h		clear.
S. S. Rhaetia, N. 49° 51', W. 28° 47'*	30.19?	766.7?	55	12.8		wnw.			4		7		nw.	0	0	mod.	wnw.	fair.
S. S. Bulgarian, N. 49° 16', W. 36° 22'*	30.05	763.3				sse.			4		10		sw.	0	0	light	ssw.	overcast.
S. S. Virginian, N. 51° 14', W. 10° 04' *	30.00	762.0	60	15.6		nnw.			6		8		nnw.	0	0	mod.	nw.	fine.
S. S. Rosse, N. 45° 59', W. 31° 50'*	30.39	771.9	65	18.3		se.			6		2		se.	0	0	mod.	ne.	clear.
S. S. Rio Grande, N. 25° 36', W. 80° 03' †	29.92	760.0	80	26.7		nw.			2		1		nw.	8 h'r	8 h'r	sm'h		clearing.
S. S. Chalmette, Algiers, La	30.07	763.8	74	23.3		n.			3		2			0	0			clear.
S. S. New York, N. 24° 30' W. 81° 30'*†	29.98	761.5	82	27.8		nw.			2		3		nw.	0	0	sm'h		clear
S. S. Lone Star, N. 27° 07', W. 86° 35' *†	30.06	763.5	80	26.7		ese.			3		9		e.	1 h'r	1 h'r	small	ese.	squally.
S. S. Alleghany, Boston, Mass†	30.53?	775.4?	46	7.8		nw.			3		0			0	0			clear.
S. S. Archimede, Palermo, Sicily	30.09	764.3	78	25.6		nne.			3		3		nne.	0	0			clear.
S. S. City of Washington, N 30° 45', W. 78° 55'			72	22.2		ne.			10		10		var.	24 h'r	24 h'r	h'vy	cross	hurricane.
S. S. Canada, off Wolf Rock, Eng †	30.09?	764.3?	66	18.9		ese.			2		10		n.	2 h'r	2 h'r	sm'h		overcast.
S. S. Denmark, N. 49° 40', W. 22° 15'†	30.34?	770.6?	55	12.8		wsw.			4		5		wsw.	0	0	r'gh	sw.	fair.
S. S. Egypt, N. 48° 08' W. 37° 32'	30.04	763.0	65	18.3		sw.			4		8		wsw.	0	0	h'vy	nw.	fair.
S. S. England, N. 40° 31', W. 72° 55'	30.32?	770.1?				n.			5		0			0	0	sm'h		clear.
S. S. Helvetia, Liverpool, Eng	29.84	757.9	61	16.1	94	nne.			3		2		nne.	0	0			clear.
S. S. America, N 42° 18', W. 58° —' *	30.19?	766.8?	64.0	17.8	73	wnw.			4		4		wnw.	3 h'r	3 h'r	rg'h	wnw.	fair.
S. S. Elbe, Bremerhaven, Germany	30.13	765.3	65.3	18.5	76	s.			1		2?		s.	0	0			cloudy?
S. S. Fulda, N. 49° 35', W. 32° 36'	30.21	767.3	58.1	14.5	62	s.			5		2		sse.	0	0	mod.	var.	clear.
S. S. Gen. Werder, N. 41° 39', W 65° 09'	30.26	768.6				nw.			6		5		nw.	1½h'r	1½h'r	rg'h	nw.	fair.
S. S. Habsburg, N. 41° 28', W. 63° 51'	30.33	770.4				nw.			6		8		nw.	0	0	long	nw.	cloudy.
S. S. Neckar, N. 40° 25', W. 70° 30'	30.40	772.1	54.0	12.2	74	nw.			5		7		n.	0	0	mod.	n.	fair.
S. S. Oder, N. 46° 48', W. 40° 58'	29.93	760.2	68.0	20.0		sw.			6		6		wsw.	3 h'r	3 h'r	mod.	wnw.	fair.
S. S. Ohio, Baltimore, Md						n.			3		8		n.	0	0			cloudy.
S. S. Salier, N. 49° 30', W. 18° 30'*	30.23	767.8	58.1	14.5	67	nnw.			4		5		nnw.	3 h'r	3 h'r	high	nw.	fair.
S. S. Strassburg, N. 49° 57', W. 23° 06'	30.27	768.8	58.0	14.4	60	nnw.			1		10		nnw.	0	0	3	nnw.	cloudy.
S. S. Werra, N. 49° 42', W. 36° 00'	29.99	761.7	55.4	13.0		sw.			6		10		sw.	3 h'r	3 h'r	high	sw.	raining.
S. S. Weser, N. 50° 14', W. 2° 32'	29.91	759.7	60.8	16.0		s.			5		4		sw.	2 h'r	2 h'r	mod.	sw.	misty.
S. S. City of Augusta, N. 34° 45', W. 74° 41'†	30.39	771.9				ne.			9		10?		ne.	0	0	h'vy	e.	clear?
S. S. Muriel, St. Thomas, W.I	29.99	761.7	85	29.4		ese.			3		0			0	0	sm'h		clear.
S. S. Orinoco, N. 32° 35', W. 64° 36'*†	30.21?	767.4?	80	26.7		se.			1		2		se.	½ h'r	½ h'r	mod.	s.	clear.
S. S. Belgenland, N. 48° 40', W. 18° 30'†	30.36?	771.1?	57	13.9	87	n.			6		2		n.	0.15	3.8	mod.	wnw.	misty.
S. S. Nederland, N. 49° 13', W. 43° 09'			55	12.8	68	sw.			6		10		w.	3 h'r	3 h'r	mod.	w	foggy.
S. S. Rhynland, N. 49° 52' W. 80 11'	29.99	761.7	55	12.8	100	n.			6		8		nnw.	2 h'r	2 h'r	high	n.	cloudy.
S. S. Pennland, Antwerp, Belgium	30.13	765.3	58	14.4	88	se.			3		0			0	0			clear.
S. S. Switzerland, N. 41° 28', W. 63° 45' *†	30.31	769.9				wnw.			3		5		wnw.	0	0	mod.	wnw.	fair.
S. S. Vaderland, Antwerpt, Belgium			67	19.4		sse.			2		1		s.	0	0			clear.
S. S. Waesland, New York, N. Y	30.35?	770.9?	53	11.7		nne.			5		2		nne.	0	0			clear.
S. S. Zeeland, N. 49° 42', W. 25° 55' *†	30.28	769.1	56	13.3		w.			4				w.	0	0	long	w.	cloudy.
S. S. P. Caland, N. 46° 20', W 47° 15'	29.86	758.4	58 6	14.8	94	ssw.			4		10		sw.			3	sw.	foggy.
S. S. W. A Scholten, N. 49° 54' W. 60 11'	29.97	761.2	59.9	15.5	94	nnw.			4		8		nne.	0	0	1	nw.	
S. S Belize, N. 32° 12, W. 74° 01'			83	28.3		se.			8		10		se.	6 h'r	6 h'r	h'vy	s.	cloudy.
S. S. Valencia, N. 21° 45', W. 69° 04' †	30.04	763 0	84	28.9	77	se.			2		3		e.	0	0	mod.	ene.	clear.
S. S. Caracas, N. 22° 16', W. 67° 38' *†	30.10	764.5	81.5	27.5	87	se.			6		8		se.	1 h'r	1 h'r	mod.	ese.	squally.
S. S. State of Nevada, N. 45° 33', W. 50° 52' †	29.83	757.7	59	15.0		s.			3		8		wnw.	1 h'r	1 h'r	mod.	s.	foggy.
S. S. State of Alabama, N. 50° 33', W. 28° 27'*	30.29	769.4	57	13.9		sw.			3		5		sw.	0	0	mod.	n.	fair.
S. S. Thingvalla, Copenhagen, Denmark†	30.09	764.3	61.7	16.5		nw.			2		3		nw.	0	0			clear.
S. S. Romano, Hull, Eng *†	29.90	759.4				se.			1		8		e.	12 h'r	12 h'r			
S. S. Salerno, New York, N. Y *†	30.43	772.9	50	10.0		n.			2		1		nw.	0	0			clear.
S. S. Oregon, N. 56° 08', W. 25° 39'	29.97	761.2	48	8.9		w.			4		8		w.			h'vy	w.	cloudy.
S. S. Daniel Steinmann, N. 48° 05', W. 31° 37'*†	30.29	769.4	59	15.0		sse.			2		8		s.	0	0	long	nnw.	cloudy.
S. S. Saxon, Philadelphia, Pa †	30.41	772.4				ne.			2		7			0	0			threatening.
S. S. Britannic, N. 50° 05' W. 30° 58' †	30.30?	769.6?	56	13.3		wsw.			4		5		w.	1 h'r	1 h'r	h'vy	wnw.	d. clouds.
S. S. Celtic, Liverpool, Eng			61	16.1	88	calm			0		10		s.	5 h'r	5 h'r	sm'h		raining.
S. S. Germanic, N. 40° 43', W. 59° 44'*†	30.10?	764.5?	68	20.0		wnw.			5		7		wnw.	2 h'r	2 h'r	mod.	wnw.	fair

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Iowa, off Great Ormes Head, Eng†	29.86	758.4	60	15.6	.....	nnw.	.....	.....	3	.....	8	.....	nnw.	8 h'r	8 h'r	sm'h	.....	cloudy.
S. S. Amsterdam, N. 49° 50', W. 5° 12'*	29.92	760.0	62.6	17	.....	sw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	nw.	raining.
S. S. City of Alexandria, Very Cruz, Mexico*†	29.92	760.0	82	27.8	.....	wsw.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	nnw.	
Bg. Alpheus Marshall, N. 39° 34', W. 67° 30'*†	30.34	770.6	63	17.2	89	ne.	.....	.....	6	.....	10	.....	ese.	0	0	light	nw.	cloudy.
Schr. Arthur Burton, 41° 30', W. 70° 10'†	30.45	773.4	.....	.....	.....	nne.	.....	.....	3	.....	2?	.....	nne.	0	0	h'vy	nne.	threatening?
Schr. Abbie Gheen, Delaware Bay†	30.40	772.1	58	14.4	.....	ne.	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Antonio Lopez, Porto Rico, W. I.	30.07	763.8	80.5	26.9	85	calm	.....	.....	0	.....	1	.....	.....	0	0	sm'h	.....	clear.
Bk. Aquidneck, N. 34° 39', W. 74° 27'*†	30.20	767.1	80?	26.7?	.....	ne.	.....	.....	9	.....	.....	.....	ne.	24 h'r	24 h'r	h'vy	ne.	raining.
Bg. Alcira, N. 35° 20', W. 73° 45'	30.08	764.0	80?	26.7?	.....	ne.	.....	.....	6	.....	10	.....	ne.	6 h'r	6 h'r	h'vy	var.	raining.
Bgt. Achsah, N. 24° 05', W. 60° 24'†	30.10	764.5	83	28.3	.....	se.	.....	.....	4	.....	4	.....	se.	1 h'r	1 h'r	long	se.	clear.
Bk. Aureola, N. 16° 30', W. 26° 25'	.....	.....	86	30.0	.....	ne.	.....	.....	4	.....	5	.....	ne.	0	0	mod.	ne.	fair.
Bk. Adelaide, N. 29° 38', W. 50° 49'†*	30.39?	771.9?	.....	.....	.....	ese.	.....	.....	5	.....	1	.....	ese.	0	0	mod.	ese.	clear.
Bg. Belle of the Bay, N. 32° 00', W. 70° 40'†	30.09?	764.3?	.....	.....	.....	se.	.....	.....	6	.....	6	.....	se.	10 mi	nutes	r'gh	sse.	squally.
S. S. Burswell, N. 46° 20', W. 21° 53'*†	30.31	769.9	64	17.8	.....	ne	.....	.....	2	.....	9	.....	e.	0	0	light	nne.	dull.
S. S. Cannonbury, N. 15° 22', W. 62° 50'*†	30.08?	764.0?	.....	.....	.....	ne.	.....	.....	2	.....	4	.....	ne.	0	0	sm'h	.....	fair.
Bk. Celestina, N. 41° 34', E. 9° 52'*†	30.10?	764.5?	.....	.....	.....	w.	.....	.....	2	.....	3	.....	.....	0	0	sm'h	.....	hazy.
Bk. Childwall, N. 37° 26', W. 16° 41'*	30.08	764.0	68	20.0	95	ne.	.....	.....	4	.....	8	.....	ne.	0	0	sm'h	n.	cloudy.
Schr. C. R. Flint, N. 37° 15', W. 67° 10'†	30.29	769.4	73	22.8	.....	ene.	.....	.....	4	.....	10	.....	ene.	0	0	r'gh	ene.	cloudy.
Bk. Cato, N. 36° 36', W. 7° 55'†	30.05	763.3	.....	.....	.....	w.	.....	.....	1	.....	.....	.....	w.	.....	.....	sm'h	se.	foggy.
Bk. Don Justo, N. 59° 20', W. 5° 30'	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	
S. S. D J. Foley, Port Antonio, Jamaica, W. I*†	29.95	760.7	79	26.1	86	ese.	.....	.....	1	.....	3	.....	e.	2 h'r	2 h'r	.....	.....	clear.
Bkt. David A. Preston, Windsor, N. S.	.....	.....	.....	.....	.....	nw.	.....	.....	6	.....	10	.....	nw.	0	0	.....	.....	threatening
S. Dora, N. 45° 50', W. 44° 00'*†	30.05?	763.3?	63.5	17.5	.....	wsw.	.....	.....	6	.....	5	.....	w.	6 h'r	6 h'r	mod.	w.	fair.
S. David Stewart, N. 11° 23', W. 47° 55'	.....	.....	86	30.0	.....	ene.	.....	.....	3	.....	5	.....	ene.	1 h'r	1 h'r	mod.	ne.	
S. E. J. Spicer, Antwerp, Belgium	30.18?	766.6?	62	16.7	88	se.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Schr. Edith R. Seward, Brunswick, Ga.	.....	.....	70	21.1	.....	wnw.	.....	.....	5	.....	6	.....	ne.	2 h'r	2 h'r	.....	.....	fair.
Bk. E. D. Bigelow, Galveston Bar, Texas†	30.06	763.5	82	27.8	.....	ne.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Edmund Phinney, N. 18° 48', W. 54° 50'†	30.12	765.0	85	29.4	.....	e.	.....	.....	5	.....	3	.....	e.	¼ h'r	¼h'r	r'gh	e.	clear.
Bk. E. L. Pettingill, N. 7° 07', W. 25° 11'*†	30.10?	764.5?	80	26.7	.....	ssw.	.....	.....	5	.....	5	.....	s.	0	0	sm'h	sse.	fair.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.35	770.9	48	8.9	.....	n.	.....	.....	0	.....	2	.....	calm	0.05	1.3	.....	.....	clear.
Bg. George, N. 20° 05', W. 63° 40'*†	30.05	763.3	81	27.2	.....	ese.	.....	.....	4	.....	2	.....	ese.	light	light	mod.	ese.	fair.
Bk. Galeon, N. 45° 55', W. 11° 15'†	30.12	765.0	63	17.2	.....	nnw.	.....	.....	5	.....	9	.....	n.	20 h'r	20 h'r	.....	nw.	overcast.
Bk. Grey Eagle, N. 26° 00', W. 50° 35'*†	30.10?	764.5?	.....	.....	.....	ese.	.....	.....	3	.....	2	.....	ese.	½h'r	½hr	short	ese.	clear.
S Hedwig, N. 36° 02', W. 4° 05'	30.06	763.5	78.4	25.8	92	calm	.....	.....	0	.....	3	.....	sw.	0	0	.....	.....	
Schr. Isabel Alberto, Key West, Fla†	29.87	758.7	.....	.....	.....	n.	.....	.....	1	.....	2	.....	n.	0	0	.....	.....	clear.
Bkt. Josephine, N. 36° 15' W. 73° 06'†	30.17	766.3	76	24.4	68	ene.	.....	.....	9	.....	10	.....	.....	20 h'r	20 h'r	cross	var.	light rain.
Bk. Johanne, N. 61° 00', E. 0° 30'*†	29.87	758.7	59	15.0	.....	ssw.	.....	.....	0	.....	8	.....	s.	2 h'r	2 h'r	mod	sw.	foggy.
Schr. John L. Thomas, N. 19° 16', W. 84° 34'*†	29.94	760.5	86	30.0	83	sse.	.....	.....	1	.....	2	.....	sse.	0	0	.....	.....	clear.
Schr. Jennie N. Huddell, off Gay Head, Mass†	30.35	770.9	51	10.6	72	nw.	.....	.....	0	.....	2	.....	nw.	0	0	.....	.....	clear.
Bg. Josefa, Bristol, Eng†	29.94	760.5	.....	.....	.....	ssw.	.....	.....	2	.....	10	.....	ssw.	6 h'r	6 h'r	.....	.....	raining.
Bkt. Kryolith, Ivigtut, Greenland*†	29.60?	751.8?	.....	.....	.....	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	clear.
Bk. Lady Hincks, N. 37° 47', W. 24° 50'*†	30.10?	764.5?	.....	.....	.....	.....	.....	.....	1-2	.....	.....	.....	.....	0	0	.....	.....	
Bg. L. & W. Armstrong, Ft. Royal Martinique, W.I*†	29.92	760.0	.....	.....	.....	ene.	.....	.....	4	.....	5	.....	ene.	1 h'r	1 h'r	sm'h	.....	light rain.
S. S. Madrid, N. 40° 32' E. 27° 03'†	29.94	760.5	71	21.7	75	nne.	.....	.....	4	.....	1	.....	nnw.	½h'r	½h'r	sm'h	.....	clear.
Bk. Mohican, N. 5° 15', W. 27° 30'	.....	.....	81	27.2	.....	s	.....	.....	2	.....	0?	.....	.....	0	0	sm'h	se.	cloudy?
Schr. Norena, N. 33° 38', W. 67° 26'*†	29.97	761.2	.....	.....	.....	sse.	.....	.....	4	.....	4	.....	ssw.	0	0	.....	s.	fine.
Bk. Orpheus, N. 55° 05', W. 21° 36'	.....	.....	55	12.8	.....	s.	.....	.....	9	.....	10	.....	.....	0	0	h'vy	s.	cloudy.
Bk. Ottawa, off Rockaway, N. Y.	30.32?	770.1?	55	12.8	.....	nne	.....	.....	5	.....	4	.....	ne.	0	0	sm'h	.....	hazy.
Schr. Rollin Sanford, Key West, Fla†	29.86	758.4	.....	.....	.....	nw.	.....	.....	1	.....	5	.....	nw.	0	0	.....	.....	fair.
Bg. Rising Sun, N. 24° 57', W. 69° 25'†	30.02	762.5	82	27.8	.....	sse.	.....	.....	4	.....	3	.....	s.	light	light	long.	var.	squally.
Bgt. Sunlight, Demerara, British Guiana*†	29.98	761.5	.....	.....	.....	se.	.....	.....	3	.....	4	.....	ne.	0	0	.....	.....	hazy.
Bk. Scud, N. 38° 00', W. 71° 10'*†	30.26	768.6	75	23.9	.....	ne.	.....	.....	0	.....	10	.....	ne.	.....	.....	short	nne.	drizzling.
Bk. Southern Belle, off Aboran Island, Md†	29.95	760.7	74	23.3	.....	sw.	.....	.....	2	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Tuck Sing, N. 20° 58', W. 83° 29'*†	29.91	759.7	.....	.....	.....	sse.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fine.
Schr. Viola Reppard, Brunswick, Ga†	30.01	762.2	73	22.8	.....	nnw.	.....	.....	4	.....	6	.....	ne.	2 h'r	2 h'r	.....	.....	fair.
Bgt. Willie, N. 7° 15', W. 32° 20'*†	29.96	761.0	82	27.8	.....	ssw.	.....	.....	4	.....	6	.....	ssw.	0	0	mod.	s.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 22° 27', W. 41° 18'	30.04	763.0	71	21.7	87	nne.	.....	.....	2	.....	1	ne.	.....	.....	.....	1	ne.	blue sky.
H. M. S. Opal, Elephant Bay, Benguela	30.01	762.2	71	21.7	90	nnw.	.....	.....	1	.....	3	wsw.	.....	.....	.....	.....	.....	d clouds
H. M. S. Sylvia, India Light, Montevideo	30.37	771.4	48.2	9.0	78	sse.	.....	.....	4	.....	7	se.	.....	.....	.....	3	sse.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.30	771.1	50	10.0	79	s.	12	5.4	.....	.....	8	.....	s.	0	0	mod.	s.	fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.33	770.4	50	10.0	79	sse.	.....	.....	4	.....	2	.....	sse.	.....	.....	sm'h	.....	fair.
S. S. Hevelius, Bahia, Brazil*†	30.20	767.1	79	26.1	.....	ene.	.....	.....	3	.....	6	.....	ene.	1 h'r	1 h'r	sm'h	.....	fair.
S. S. Hohenstaufen, S. 33° —', W. 41° 50'	30.33	770.4	59.0	15	58	sw.	.....	.....	4	.....	3	.....	sw.	0	0	sm'h	sw.	fair.
Bk. Great Surgeon, S. 25° 01', W. 30° 36'*†	30.44	773.2	73	22.8	.....	e.	.....	.....	4	.....	4	.....	e.	0	0	mod.	e.	fair.
S. Gatherer. S. 4° 35', W. 33° —'*	29.88	758.9	78	25.6	78	se.	.....	.....	5	.....	2	.....	var.	0	0	cross	var.	clear.
Bk. Godeffroy, S. 46° 29' W. 59° 54'	29.76	755.9	44.2	6.8	80	wnw.	.....	.....	5	0	.....	sw.	.....	snow	snow	mod.	sw.	clear.
Bkt. Louise Adelaide, S. 1°° 20', W. 35° 50'†	30.07	763.8	79	26.1	.....	se.	.....	.....	3	.....	2	.....	se.	0	0	long	se.	clear.
S. S. Olbers, Rio de Janeiro, Brazil	30.14	765.5	73	22.8	90	calm	.....	.....	0	.....	10	.....	.....	0	0	sm'h	.....	foggy.
H. M. S. Boadicea, Simons Bay, Cape Colony	29.86	758.4	62	16.7	.....	ne.	.....	.....	2	.....	3	nne.	.....	.....	.....	.....	.....	blue sky.
Bg. John Wesley, S. 24° 20', W. 42° 06'*†	30.07	763.8	76	24.4	.....	nne.	.....	.....	7	.....	.....	.....	.....	0	0	rg'h	ene.	hazy
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.94	760.5	63	17.2	94	calm	.....	.....	0	.....	10	se.	.....	.....	.....	sm'h	.....	raining.
H. M. S. Flying Fish, N. 37° 05', E. 126° 00'	29.77	756.1	77	25.0	82	ssw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Magpie, N. 5° 41', E. 118° 40'	29.87	758.7	79.0	26.1	80	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	showery
H. M. S. Mutine, N. 18° 40', W. 109° 15'	29.92	760.0	82	27.8	.....	w.	.....	.....	2	.....	5	.....	.....	.....	.....	2	w.	d. clouds.
H. P. M. S. Zephyr, N. 42° 20' E. 134° 25'	29.96	761.0	63	17.2	94	e.	.....	.....	1	.....	9	W.	.....	.....	.....	.....	s	d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.52	749.8	79.7	26.5	88	ne.	.....	.....	7	.....	10	.....	.....	2 h'r	2 h'r	.....	.....	raining.
U. S. S. Essex, Roze Island, Corea	30.15	765.8	70.5	21.4	95	n.	.....	.....	1	.....	10	.....	nnw.	0.70	17.8	.....	.....	drizzling.
U. S. S. Monocacy, Roze Island, Corea	29.80	750.9	78	25.6	100	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	sm'h	ssw.	cloudy.
U. S. S. Palos, Hong Kong, China	29.85	758.2	79	26.1	82	ssw.	.....	.....	2	.....	10	.....	sw.	.....	.....	sm'h	.....	cloudy.
U. S. S. Pensacola, N. 19° 48', W. 174° 17'*	29.49	749.0	76	24.4	95	ene.	.....	.....	8	.....	10	.....	n.	.....	.....	.....	.....	raining.
U. S. S. Richmond, Yokohama, Japan	29.92	760.0	81	27.2	78	ene.	.....	.....	4	.....	2	.....	ene.	light	light	light	ene	clear.
S. S. Coptic, N. 39° 32', E. 149° 42'	30.07	763.8	72	22.2	95	n.	.....	.....	2	.....	10	.....	.....	1.50	38.1	.....	.....	cloudy.
S. S. Oceanic, N. 46° 07' W. 159° 20'	30.18	766.6	70.0	21.1	78	sse.	.....	.....	2	.....	2	.....	se.	0	0	sm'h	.....	clear.
S. S. Oregon, N. 39° 08', W. 123° 48'†	30.18	766.6	59	15.0	100	s.	.....	.....	4	.....	7	.....	se.	0	0	4	var.	foggy.
S. S. Willametta, N. 45° 14', W. 124° 55'†	30.03	762.7	54	12.2	100	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Ancon, N. 34° 39', W. 120° 42'†	29.94	760.5	62	16.7	94	ssw.	.....	.....	4	.....	2	.....	ssw.	0.04	1.0	long	w.	clear.
S. S. State of California, Portland, Oregon†	29.94	760.5	56	13.3	87	nnw.	.....	.....	3	.....	10	.....	.....	.....	.....	light	w.	foggy.
S. S. Queen of the Pacific, Portland, Oregon†	29.99	761.7	61	16.1	88	s.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	light rain.
S. S. Victoria, Portland, Oregon†	29.97	761.2	63	17.2	89	se.	.....	.....	2	.....	10	.....	.....	rain	rain	.....	.....	cloudy.
S. S. City of Pekin, N. 46° 31', W. 147° 56'†.	30.02?	762.5?	62	16.7	83	s.	.....	.....	5	.....	7	.....	s.	.....	.....	.....	.....	cloudy.
S. S. City of Tokio, N. 30° 58', E. 120° 45'†	30.23	767.8	55	12.8	87	nnw.	.....	.....	4	.....	10	.....	nw.	0	0	large	wnw.	cloudy.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.08	753.9	82	27.8	79	ese.	.....	.....	0	.....	10	.....	ese.	11 h'r	11 h'r	mod.	ese.	overcast.
S. S. Colima, Acapulco, Mexico†	29.50	749.3	79	26.1	91	ene.	.....	.....	9	.....	10	.....	ene.	3.2	81.3	light	ene.	squally.
S. S. Granada, N. 16° 18', W. 99° 05'†	29.95	760.7	79	26.1	82	n.	.....	.....	4	.....	9?	.....	nw.	0.20	5.1	mod.	se.	clear?
S. S. Armenia, N. 26° 50', W. 124° 00'*	29.92	760.0	86	30.0	80	e.	.....	.....	2	.....	10	.....	e.	2 h'r	2 h'r	light	s.	cloudy.
S. St. David, N. 44° 50', E. 168° 48' *†	29.97	761.2	69	20.6	85	nne.	.....	.....	4	.....	5?	.....	nne.	0	0	sm'h	var.	clear?
	30.02	762.5	67	19.4	89	nnw.	.....	.....	5	.....	10	.....	var.	3 h'r	3 h'r	mod.	var.	showery
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 09', E. 155° 47'	29.89	759.2	83.3	28.5	81	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	sm'h	.....	d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 4—South Pacific.—Continued.																		
U. S. S. Hartford, S. 12° 04′, W. 77° 16′*	29.90	759.4	60	15.6	94	s.			2		10			0	0			cloudy.
U. S. S. Iroquois, Callao, Peru	30.06	763.5	60	15.6	88	wnw.			1		10							drizzling
U. S. S. Lackawanna, Callao, Peru *	29.98	761.5	60	15.6	88	calm			0		10							cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	58	14.4	94	nw.			1		10		s.					misty.
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.6	58	14.4	100	calm			0		10							cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	30.09	764.3	57	13.9	81	nne.			2	8 cs	0	n.						cloudy
S. S. Zealandia, S 34° 02′, E. 171° 49′	29.99	761.7	57	13.9	87	se.			6		10					mod.	se.	squally
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.06	763.5	65	18.3		se.			2					0	0	long	sse.	foggy.
S. David Crocket, S 26° 41′, W. 117° 24′*	30.11	764.8	66	18.9	81	ese.			3		1			0	0	long	s.	blue sky.
S. Sovereign of the Seas, S. 40° 56′, W. 86° 03′*†	30.56	776.2	51	10.6	93	nw.			5		10		nw.	0	0	mod.	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 16° 07′, E. 50° 00′	30.18	766.6				ese.			1		3	ese.				2	ese.	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	80	26.7	91	ese.			2		2	ese.				2	see.	blue sky.
H. M. S. Woodlark, S. 26° 55′ E. 50° 46′	29.80	756.9	90.5	32.5	77	ssw.			2		0							blue sky.
U. S. S. Juniata, Sunda Strait	29.94	760.5	80	26.7	96	sse.			4		5?		se.	light	light	mod	se.	cloudy ?
S. S. Galatia, S. 12° 38′ E. 43° 39′†	29.69	754.1	85	29.4	92	ssw.			1		3		sw.	0	0	sm'h		light haze.
S. S. Benledi, N. 5° 30′, E. 93° 30′*	29.86	758.4	84.5	29.2	81	sw.			4		4		sw.	0	0	mod.	sw.	fair.
Bk. Pilgrim, S. 25° 30′, E. 52° 45′*†	30.30	769.6				nnw.			1		2		nnw.	0	0	long	se.	clear

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 11, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.01	762.2	84.9	29.4	69	e.			1		0			0	0	clear	Roziere.
Algiers			30.03	762.7	81.7	27.6	53	w.			4		0			0	0	clear	Thève.
La Calle			30.06	763.6	76.3	24.6	65	ne.			4		1			0	0	very fair	Fonfrède.
Tunis			30.10	764.4	79.2	26.2	62	e.			2		1			0	0	very fair	Delord.
Saida			30.05	763.2															Pérès.
Tebessa			30.04	763.0	82.4	28.0	17	sw.			3		3			0	0	pretty fair	St. Martin.
Geriville					77.0	25.0	11	n.			1		2			0	0	fair	Forfert.
Laghouat			30.06	763.5	88.2	31.2	29	nw.			2		2			0	0	fair	Abraham.
Biskra			30.04	763.1	96.1	35.6	24	e.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.86	758.4	50.3	10.2	73	sw.	22	9.8			9 kn		wsw.			showery	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.51	749.5	29.60	751.8	65.7	18.7	40	ne.	17	7.6			6			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.1	30.07	763.8	65.8	18.8	62	s.			2		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.29	744.0	30.05	763.3	59.7	15.4	89	ene.	4.3	1.9			10			0.579	14.7		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.58	726.0	29.99	761.7	62.8	17.1	70	se.			2		10			0.220	5.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.4	30.08	764.0	60.4	15.8	71	ene.			1		1			0	0	clear	The Staff.
Lemberg	29.14	740.1	30.12	765.1	55.2	12.9	88	ne.			4		10			inap.	inap.		Dr. T. Stanecki.
Pola	29.96	760.9	30.07	763.7	71.4	21.9	56	wsw.			2		2			0	0		I. R.Hydrographic Office.
Szathmar	29.54	750.2	29.99	761.8	63.1	17.3	86	n.			3		10			0.252	6.4		Joseph Midlinszky, S. J
Szegedin	29.74	755.4	30.02	762.4	64.2	17.9	75	calm			0		10			0	0		Karl Stuccel.
Trieste	30.02	762.6	30.12	765.1	70.7	21.5	43	w.			1		1			0	0		Royal Academy.
Vienna	29.41	746.9	30.11	764.9	60.8	16.0	86	nw.			2		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.13	765.3	30.23	767.8	56.0	13.3	63	ene.	9	4.0			3			0	0	blue sky	W. Boswell.
Armagh, Observatory	30.03	762.7	30.28	769.1	55.0	12.8	74	n.	2	0.9			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.17	766.3	59.0	15.0	68	nw.	18	8.0			2					blue sky	John Hartnup.
Bolton, Sharples	29.62	752.3	30.15	765.8	58.0	14.4	67	nnw.	6	2.7			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.75	755.6	30.15	765.8	55.8	13.2	75	nw.			2		6			0	0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.98	761.5	30.02	762.5	80.0	26.7	78	ne.			1		8					threatening	Corpl. W. I. Cull, A. H.C
Cardington	29.95	760.7	30.05	763.3	55.0	12.8	93	n.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	29.99	761.7	58.2	14.6	91	e.			1		10			blank	blank	gloomy	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.99	761.7	30.22	767.6	56.9	13.8	66	nw.			5		5					d. clouds	The Staff.
Fort Napier, Natal	27.65	702.3	29.87	758.7	71.5	21.9	78	ne.			1		8					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	30.22	767.6	30.25	768.3	58	14.4	70	nw.			2		3			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	74.8	23.8	79	nw.			4		3					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.02	762.5	30.22	767.6	56.7	13.7	55	wnw.			2		1					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.85	758.2	30.02	762.5	57.5	14.2	96	n.			2		10			1.37	34.8	drizzling	The Staff.
Guernsey	29.81	757.2	30.10	764.5	56.0	13.3	75	nnw.			1		10					overcast	A. Collenette, F. M. S
Kew, Observatory	30.00	762.0	30.04	763.0	58.2	14.6	88	nne.	12	5.4			10					misty	The Staff.
Leicester, Museum	29.84	757.9	30.10	764.5	56.8	13.8	81	n.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	79.4	26.3	64	nw.			2		5			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.95	760.7	29.99	761.7	84.5	29.2	73	sw.			1		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.85	758.2	30.08	764.0	54.0	12.2	97	n.			4		10					drizzling	The Staff.
Plymouth	30.08	764.0	30.15	765.8	60.2	15.7	64	nnw.			4		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	30.10	764.5	30.20	767.1	53.5	11.9	78						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	82.8	28.2	52	sw.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.87	758.7	30.15	765.8	58.2	14.6	82	n.			2		10			0.20	5.1	overcast	W. F. Cooper.
Silloth Rectory	30.16	766.1	30.19	766.8	61.2	16.2	63	n.			1		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.18	766.6	59.3	15.2	59	n.	10	4.5			8					d. clouds	W. C. Carlisle.
Strathfield Turgiss					56.6	13.7	91	n.			1.0		10					showery	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	30.17	766.3	30.26	768.6	60	15.6	76	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.29	769.4	30.32	770.1	58.1	14.5	69	wnw.	4	1.8			4					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.07	763.8	76.6	24.8	66	w.	5.0	2.2			0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.31	769.9	30.35	770.9	48	8.9	85	calm	0	0		8 c	0	n.		0	0		Hon. J. Ferguson.
Charlottetown, P. E. Island	30.31	769.9	30.35	770.9	52	11.1	80	w.	8	3.6		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.31	769.9	30.37	771.4	42	5.6	86	w.	3	1.3		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.19	766.8	30.39	771.9	32.6	0.3	96	nw.			1	0	fg.			0	0	dense fog	Jas. Smith, M. A.
Dalhousie, N. B	30.29	769.4	30.34	770.6	43.5	6.4		w.			1	0	0			0	0	d. clouds	H A. Johnson.
Edmonton, N. W. T.	27.56	700.0			39	3.9	73	calm	0	0		0	5 k		e.	0	0	fair	Alex. Taylor.
Father Point, Quebec*	30.31	769.9	30.33	770.4	47	8.3	93	nw.	15	6.7		5 c; s	0	nw.		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.98	736.1	29.80	756.9	54	12.2	93	se.	16	7.2			10 n			0	0	misty	James Stewart.
Fredericton, N. B	30.37	771.4	30.44	773.2	43.1	6.2	92	nw.	2.0	0.9		0	0			0	0	blue sky	Prof.Thos. Harrison
Grand Manan, N. B	30.36	771.1	30.41	772.4	50	10.0	77	n.	7	3.1		7 ck	0	n.		0	0	fair	J. Chipman Seeley
Granton, Ontario	29.23	742.4	30.37	771.4	38.0	3.3	91	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.29	769.4	30.42	772.7	48	8.9	89	nw.	1	0.4		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.92	760.0	30.31	769.9	46.1	7.8	87	ne.			1	5 cs	0	ne.		0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	30.06	763.5	30.40	772.1	43	6.1	96	n.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A
Little Glace Bay, N. S.	30.31	769.9	30.35	770.9	59.5	15.3	86	w.			4	2 k	0	w.		0	0	blue sky	C. H. Rigby.
London, Ontario	29.43	747.5	30.37	771.4	36.7	2.6	100	calm	0	0		0	0			0	0	blue sky	E. B. Reed.
Medicine Hat	27.57	700.3	29.81	757.2	52	11.1	57	sw.	10	4.5		0	2 s			0	0	blue sky	John Ewart.
Montreal, Quebec*	30.19	766.8	30.40	772.1	42	5.6	96	sw.	1	0.4			fg.			0	0	dense fog	C. H. McLeod, C. E.
Ottawa, Ontario	30.16	766.1	30.42	772.7	37.2	2.9	100	ssw.				0	0			0	0		A. McGill, M. A.
Parry Sound, Ontario*	29.67	753.6	30.39	771.9	42	5.0	93	se.	6	2.7		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.65	753.1	30.40	772.1	43.7	6.5	83	sw.			1	0	0			0	0	blue sky	Wm. O'Connor,M.A.
Port Dover, Ontario	29.64	752.8	30.35	770.9	41	5.0	100	n.	9	4.0		0	0			0	0	clear	H Morgan.
Port Stanley, Ontario	29.66	753.4	30.33	770.4	41	5.0	92	ne.	4	1.8		0	0			0	0	clear	M. Payne.
Que Appelle, N. W. T.	27.57	700.3	29.81	757.2	48	8.9	83	sw.	4	1.8		2 ck	2 s	sw.	sw.	0	0	fair	Leslie Gordon.
Quebec, Quebec*	30.04	763.0	30.41	772.4	43	6.1	96	w.	4	1.8		5 c	0	w.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.92	760.0	30.40	772.1	33	0.6	89	calm	0	0			fg			0	0	dense fog	W. H. McIntyre.
St. Andrews, N .B	30.35	770.9	30.41	772.4	46	7.8	84	nw.	3	1.3		0	0			0	0	clear	
St. John, N. B	30.26	768.6	30.41	772.4	46.0	7.8	100	s.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.97	761.2	30.21	767.3	54	12.2	87	nw.			2	0	0			0.10	2.5	clear	The Commandant.
Saugeen, Ontario*	29.61	752.1	30.35	770.9	42	5.6	96	sw.	4	1.8		0	0			0	0	clear	
Stratford, Ontario	29.06	738.1	30.38	771.6	39.0	3.9	97	se.	3.5	1.6			fg			0	0	dense fog	C. J. Macgregor, M. A.
St. Pierre, N. F			30.20	767.1	53.6	12.0		nw.			3					0	0		The Commandant.
S. W. Point, Anticosti	30.18	766.6	30.21	767.3	45	7.2	93	e.	2	0.9		7 cs	0	nw.		c	0	fair	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Sydney, C. B.	30.29	769.4	30.35	770.9	53	11.7	83	sw.	8	3.6		0	2 k		w.	0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.99	761.7	30.38	771.6	44	6.7	89	ne.	5	2.2		2 cs	0			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.26	743.2	30.36	771.1	40.0	4.4	97	n.	3	1.3		0	fg			0	0	foggy	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.34	770.6	30.41	772.4	48	8.9	96	calm	0	0		7 cs	hz	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House.	29.73	755.1	29.76	755.9	60.8	16.0	94	w.	18.6	8.3		0	8 s			0.010	0.3	hazy	I Garfelt.
Springbok Fontein	27.89	708.4			58	14.4	63									0.27	6.9	drizzling	J. T. Eustace.
Chilian.																			
Coquimbo	29.91	759.6	29.98	761.6	51.3	10.7	92	calm			0		10					hazy	Samuel Redolez.
Iquique	29.98	761.6	30.01	762.3	59.0	15.0	69	ne.			2							cloudy	Rafael Moreno.
Niebla	29.82	757.4	29.93	760.1	40.6	4.8	87	e.			1	0	0			0.756	19.2	clear	Federico Köhling.
Punta Caldera	29.92	760.0	30.01	762.2	53.2	11.8	78	nw.			2		6 s		se.			fair	Manuel Tobar.
Punta Corona	30.01	762.3	30.20	767.1				nw.			2		10			0.480	12.2	cloudy	Ignacio Ayala.
Valparaiso	29.94	760.5	30.08	764.1	49.1	9.5	80	sw.			1							clear	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.29	642.3																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.69	754.2	29.72	754.8	75.2	24.0	86	n.	7.8	3.5			1			0.012	0.3	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.19	766.9	30.24	768.1	61.7	16.5	61	se.	9	4			0						Oversergent Fischer.
Fanoe	30.20	767.0	30.22	767.5	63.0	17.2	55	ene.	4	2			1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.38	746.3	29.43	747.4	48.2	9.0	86	se.	13	6			10					raining	A. O. Thorlacius.
Thorshavn	30.06	763.0	30.09	764.2	54.3	12.4	78	sw.	9	4			4						Overloerer Bergh.
Vestervig	30.13	765.3	30.22	767.6	61.2	16.2	76	w.	4	2			1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.74	755.4			83.7	28.7		ne.	7.2	3.2			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.56	750.9	30.21	767.2	65.8	18.8	72	nnw.			2		nk		nw.	0.142	3.6		M. Labroue, Director.
Alençon, Normal School	29.69	754.0	30.20	767.0	58.3	14.6	89	s.			1		n		n.	0.213	5.4		M. Nicot, Director.
Avignon, Normal School	30.02	762.4	30.10	764.4	78.1	25.6	64	se.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.8	30.03	762.8	61.2	16.2	89	s.			1		10		wsw.	0	0	covered	M. Saillard, Director
Beauvais, Normal School	29.72	754.9	29.97	761.3	67.1	19.5	68	sw.			2		5		sw.	0.532	13.5	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.16	740.7	30.06	763.6	57.2	14	82	sw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.89	759.3	30.15	765.8	67.3	19.6	55	w.			1		8		wnw.	0.083	2.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.49	749.1	30.04	763.0	61.7	16.5	84	s.			1				s.	0.20	5.		M. Malet, Director.
Brest, Naval Observatory	29.99	761.8	30.24	768.0	59.0	15.0	70	n.			2		5		n.	0.236	6.0		M. de Kermarée, Dir.
Caen, Normal School	29.97	761.3	30.06	763.4	55.8	13.2	95	w.			1		8		w.	0.315	8.0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.63	752.5	29.94	760.4	64.0	17.8	90	calm			0		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.56	750.7	30.06	763.6	60.1	15.6	75	s.			1		10			0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.69	728.7	30.00	762.1	69.8	21.0	62	ssw.			2		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.22	742.2	30.06	763.6	64.4	18	78	se.			1				sw.	0.012	0.3		M. de Villemontée, Dir.
Commercy, Normal School.	29.21	741.9	30.06	763.5	60.8	16	73	e.			4	c	5 kn	e.	e.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.63	701.7	30.11	764.8	65.3	18.5	70	s.			2		8 n			0.071	1.8		M. Jarach, Director.
Gréasque, du Rhone	28.97	735.8	30.05	763.3	74.8	23.8	55	nnw.			1		5		w.	0	0		M. Kinu, Director.
Grenoble. Normal School	29.33	744.9	30.09	764.2	62.6	17	78	s.			1		n		sw.	0.024	0.6		M. Ablard, Directoor.
Guéret, Normal School	28.49	723.0	30.06	763.4	60.1	15.6	89	w.			1		8 kn		se.	0.256	6.5	very cloudy	M. Delorme, Dir.
Lamballe, Normal School.	29.85	758.1	30.12	765.1	59.9	15.5	75	w.			2		5		w.	0.051	1.3	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.60	751.7	30.22	777.7	65.1	18.4	48	w.			1		10 n			0.354	9.0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.2	30.19	766.8	63.7	17.6	74	nnw.			4		8	calm	n.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.01	736.9	30.05	763.2	66.0	18.9	74	s.			1	ck	10 n			0.008	0.2	covered	M. André, Director
Mans, Normal School	29.78	756.5	30.09	764.2	61.0	16.1		nnw.			1		8 n		nw.	0.264	6.7	very cloudy	M. Richard, Director
Marseille, Observatory	29.83	757.0	30.09	764.3	70.3	21.3	61	wsw.			1		4		w.	0	0		M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	53.6	12.0	63	n.	13.0	5.8			10	nw.		0.169	4.3		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.3	30.04	763.1	70.9	21.6	61	wnw.			4		8			0.08	2.	very cloudy	M. Galzin, Director.
Nantes, Observatory	30.00	762.0	30.17	766.2	63.0	17.2	57	nw			1-4		8 k; kn		nw.	0.303	7.7		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.11	764.9	68.7	20.4	78	nw.	3.8	1.7			10		nw.	0.150	3.8		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.9			35.6	2.0		w.			1		10		w	0.307	7.8	rainy	M. Vaussenat, Director.
Privas, Normal School	29.02	737.1	30.07	763.7	66.6	19.2	72	n.			1		5 kn	n.	n.	0	0	cloudy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.22	640.7			49.5	9.7	100	wsw.			4		10			0.016	0.4	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.09	764.3	30.12	765.1	68.0	20.0	64	w.			2		2		w.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.8	30.12	765.1	64.8	18.2	87	nw.			1		5	nw.	nw.	0.638	16.2	cloudy	M. Brotier, Director.
Rodez, Normal School	28.01	711.4	30.15	765.7	56.8	13.8	75	nw.			1		10		e.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.95	760.7	30.00	761.9	58.6	14.8	93	sw.			1		10	w.		0.173	4.4	raining	M. Mouillot, Dir.
Saint Maur, Observatory	29.92	760.0	30.02	762.4	61.3	16.3	93				1		10		w.	0.441	11.2	covered	M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	63.5	17.5	89	w.			1		10	nw.		0.173	4.4	covered	M. Bailland, Director.
Tours	29.89	759.1	30.06	763.6	65.8	18.8	64	w.			2		5	w.	wnw.	0.665	16.9	cloudy	M. de Tastes.
Versailles, Observatory	29.52	749.7	30.01	762.2	63.3	17.4	72	w.			2		10			0.543	13.8	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.09	764.2	30.24	768.0	62.4	16.9	89	w.	15.7	7.0			10 kn		e.	0.287	7.3	light rain	M. Cartier, Director.
German.																			
Ansbach	28.66	728.0	30.08	764.1	64.8	18.2	46	se.			4		1	se.		0	0		Prof. Jnedt.
Bamberg	29.29	744.0	30.14	765.6	66.4	19.1	50	se.			2		3 k		se.	0	0		Prof. Dr. Hoh.
Berlin	30.04	763.1	30.19	766.7	66.2	19.0	53	e.			3		5			0	0		Dr. Lensch.
Breslau	29.61	752.2	30.15	765.7	57.7	14.3	85	n.			3		10			inap.	inap.		Royal University Obs'y.
Carlsruhe	29.58	751.4	30.03	762.8	69.1	20.6	40	ne.			1		1	nw.		0	0		Albert Senz.
Cassel	29.41	746.9	30.12	765.0	65.8	18.8	55	e.			2		3	ne.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	755.0	30.08	764.1	68.0	20.0	41	e.			2		1			0	0		Physical Society.
Friedrichshafen	28.66	728.0	30.06	763.4	62.6	17.0	69	se.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.10	764.5	30.19	766.8	66.2	19.0	58	e.			3		2			0	0		E. Preiler.
Kiel	30.18	766.0	30.20	767.0	61.2	16.2	64	ese.			2		3			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.74	755.5	30.16	766.0	65.5	18.6	47	ne.			2		5	ese.		0	0		H. Leppig, Asst.
Magdeburg	29.99	761.0	30.17	766.3	69.1	20.6	47	ese.			1		6	ne.		0	0		Weather Observatory.
Memel	30.24	768.1	30.29	769.3	72.3	22.4	41	se.			3	2 c							Issermann.
Munich	28.25	717.5	30.11	764.9	63.0	17.2	48	ne.			2		0			0	0		Central Station.
Neufahrwasser	30.22	767.7	30.24	768.1	63.1	17.3	81	n.			1		9			0	0		A. Lothes.
Neustadt, Palatinate	29.50	749.2	30.02	762.5	68.2	20.1	43	e.			2		2	s.		0	0		Dicknether.
Stuttgart	29.11	739.4	29.98	761.6	65.3	18.5	53	e.			1		1	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.19	766.8	30.21	767.4	68.4	20.2	80	n.			3		1 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.60	751.7	29.97	761.1	80.8	27.1		s.			2.0		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.62	752.4	29.67	753.6	83.6	28.7	77	wsw.	27.0	12.1			7			0	0	d. clouds	
Deesa	29.21	741.9	29.69	754.0	77.1	25.1	91	sw.	5.0	2.2			10	sw.	sw.	0.22	5.6	drizzling	
Bombay	29.76	755.9	29.80	756.8	80.4	26.9	86	w.	12.0	5.4			10		w.	0.18	4.6	overcast	
Poona, Yarrowda	27.96	710.1	29.84	757.9	70.6	21.4	92	nw.	13.0	5.8			10			0.04	1.0	overcast	
Trichinopoly	29.56	750.9	29.84	758.0	90.2	32.3	41	wnw.	0.5	0.2			10			0	0	overcast	
Bellary	28.32	719.4	29.79	756.6	81.0	27.2	55	w.	16.0	7.2			10	se.		0	0	gloomy	
Belgaum	27.30	693.5	29.86	758.6	71.2	21.8	81	w.	9.0	4.0			10	s.	w.	0.05	1.3	d. clouds	
Lahore	28.84	732.0	29.57	751.0	89.9	32.2	60	calm	0	0			0			0	0	blue sky	
Roorkee	28.69	728.7	29.58	751.3	80.8	27.1	88	calm	0	0			10	s.		0.08	2.0	overcast	
Agra	29.00	736.6	29.55	750.5	92.2	33.4	55	ne.					2		n.	0	0	d. clouds	
Nagpur	28.63	727.2	29.67	753.6	78.7	25.9	82	nnw.	6.0	2.7			9		w.	0.11	2.8	d. clouds	
Jubbulpore	28.29	718.4	29.64	752.8	77.8	25.4	87	w.	0.0	2.7			10		s.	0.33	8.4	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.18	741.2	29.55	750.5	91.1	32.8	65	n.	1.0	0.4			7	sse.		0	0		
Allahabad	29.23	742.5	29.54	750.3	82.7	28.2	91	calm	0	0			6	sw.		0.20	5.1	d. clouds	
Patna	29.39	746.5	29.58	751.2	83.4	28.6	85	e.	5.9	2.6			8	e.	e.	0.12	3.0	thund'r st'm	
Hazaribagh	27.59	700.7	29.58	751.3	78.0	25.6	85	ssw.	5.7	2.6			7			0.08	2.0	thund'r st'm	
Cuttack	29.55	750.6	29.03	752.6	85.0	29.4	78	calm	0	0			9			0.21	5.3	d. clouds	
Calcutta, Alipore	29.58	751.3	29.60	751.8	84.3	29.1	85	s.	4.5	2.0			5		s.	0	0	d. clouds	
Dhubri	29.49	749.0	29.60	751.8	83.1	28.4	84	calm	0	0			1			0.02	0.5	d. clouds	
Chittagong	29.58	751.4	29.67	753.6	80.7	27.1	90	s.	6.9	3.1			8		s.	0	0	d. clouds	
Sibsagar	29.31	744.4	29.64	752.8	85.2	29.7	80	ne.	2.0	0.9			2			0	0		
Jeypore	28.17	715.4	29.58	751.2	87.7	30.9	64	n.	4.6	2.1			8		n.	0.45	11.4	d. clouds	
Zanzibar	29.93	760.2			83.7	28.7	60	sse.	2.9	1.3			3	se.		0	0	d. clouds	
ITALIAN.																			
Udine	29.69	754.0	30.08	764.1	70.5	21.4	42	sw.	0.7	0.3			1			0	0		Prof. Giovanni Clodig.
Milan	29.58	751.4	30.09	764.3	71.1	21.7	50	se.	3.8	1.7			4	nw.		0	0		Prof. G.V. Schiapparelli
Padua	29.94	760.4	30.04	763.1	70.2	21.2	44	sw.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.20	741.7	30.09	764.3	64.6	18.1	79	nnw.	3.1	1.4			8	n.		0.146	3.7		Prof. F. F. Denza.
Genoa	29.88	758.9	30.06	763.6	74.3	23.5	56	sw.	5.6	2.5			4	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.18	715.7	30.06	763.5	66.0	18.9	73	n.			2		10			0	0		Prof. D. C. Bruno.
Pesaro	30.09	764.3	30.14	765.4	69.6	20.9	56	ne.	9.4	4.2			1			0	0		Prof. Luigi Guidi.
Florence	29.79	756.6	30.04	763.0	76.1	24.5	27	w.			2		3	nnw.		0	0		Prof. Costantino Pittei.
Leghorn	29.91	759.8	30.00	761.9	73.6	23.1	59	wsw.	3.1	1.4			0			0	0		Prof. P. Monte.
Rome	29.85	758.3	30.02	762.6	78.1	25.6	34	nw.	0	0			4			0	0		Prof. P. Tacchini.
Lecce	29.78	756.4	30.03	762.8	70.2	21.2	54	wnw.	9.4	4.2			3	nw.		0.169	4.3		Prof. C. de Giorgi.
Cosenza	29.15	740.5	30.02	762.5	79.5	26.4	63	w.	3.1	1.4			2	nw.		0	0		Prof. D. Conti.
Cagliari	29.82	757.3	30.00	762.1	77.0	25.0	62	se.			4		2			0	0		Prof. A. Pacinotti.
Palermo	29.80	757.0	30.05	763.2	74.1	23.4	60	ne.	5.6	2.5			1	nw.		0	0		Prof. G. Caccatore.
Syracuse	29.97	761.2	30.01	762.3	77.2	25.1	57	e.	1.3	0.6			2	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.50	749.3	30.01	762.2	75.4	24.1	55	se.	0.7	0.3			3	ese.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.81	757.2	29.85	758.2	73.7	23.2	95	e.			2	9c;cs	0	w.		0	0	cloudy	H. Hattori.
Awomori	29.80	756.9	29.84	757.9	68.4	20.2	92	n.	inap.	inap.		5 cs	0			0	0	fair	K. Ogawa.
Hamamatsu	29.88	758.9	29.91	759.6	74.6	23.7	83	e.			7		10 n			1.980	50.3	raining	Sekigawa & Yamazaki.
Kagoshima	29.29	744.0	29.30	744.3	79.9	26.6	81	se.			7		10 n		se.	1.868	47.4	light rain	G. Miyanomaza.
Kanazawa	29.68	753.8	29.78	756.3	75.3	24.1	78	ssw.	3.2	1.4			10ck;s			0.050	1.3	cloudy	S. Endo.
Kioto	29.65	753.0	29.82	757.4	75.2	24.0	82	ene.	3.5	1.5			10 n		se.	0.688	17.5	light rain	M. Tojima.
Kochi	29.68	754.0	29.70	754.5	80.5	26.9	85	e.	10.4	7.3			10 s		s.	0.46	11.7	overcast	K. Kusunose.
Miasaka	29.43	747.4	29.45	748.1	79.5	26.4	87	se.			9		10 n		sse.	4.902	124.5	raining	K. Masusaki.
Miyako	29.81	757.3	29.93	760.1	72.7	22.6	83	sw.	2.5	1.1		9 c	0			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.14	740.1	29.33	745.0	76.5	25.8	79	ne.	13.8	6.2			10 s		e.	0.470	11.9	cloudy	S. Takehayasu.
Niigata	29.78	756.4	29.62	757.4	77.8	25.4	62	se.	9.9	4.4			10ks;s		w.	0	0	fair	Satoo & Tomikawa.
Nobiru	29.90	759.4	29.91	759.8	75.0	23.9	91	s.	26.4	11.8		4 ck	3 ck		s.	0	0	cloudy	Yoslino & Midzushina.
Numazu	29.93	760.2	29.97	761.2	73.3	22.9	72	ne.			2	10cs;ck	0	s.		0.276	7.0	cloudy	R. Kaneda.
Osaka	29.77	756.2	29.79	756.6	74.3	23.5	90	ene.	15.2	6.8			10ks;ck		se.	0.310	7.9	raining	H. Omura.
Sakai	29.70	754.5	29.71	754.7	75.2	24.0	83	ne.			2		10 n		se.	0.039	1.0	raining	Yamawchi & Sakamoto.
Shimonoseki	29.36	745.8	29.51	749.5	77.2	25.1	78	ene.			7		10 n		ese.	0.551	14.0	cloudy	S. Sakaro.
Tokei Obs'y, Yeddo	29.90	759.4	29.97	761.3	71.2	21.8	92	ssw.	2.5	1.1		6cs;ck	4ks;ck	nw.	se.	0.135	3.4	cloudy	The Staff.
Wakayama	29.69	754.1	29.74	755.4	74.7	23.7	87	e.	2.9	1.3		1 ck	9 n	s.	s.	0.312	7.9	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	74.4	23.6	67	w.	8.5	3.8		0	2k;ks			0	0	clear	The Staff.
MEXICAN.																			
Leon	24.32	617.7	29.96	761.0	60.4	15.8	92	nnw.	0.9	0.4		4 c	4ck;s	e.	e.	0.158	4.0	cloudy	Prof. M. Leal.
Mazatlan																			F. Quijano, C. E.
Sub-series.																			
Altata					82	27.8	86	e.			1	2 c	2 c	e.		0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.02	762.4	30.02	762.4	62.6	17.0		ese.			4					0	0		
Groningen	30.04	763.0	30.10	764.4	63.9	17.7		se.			3					0	0		
Helder	30.07	763.7	30.07	763.7	61.5	16.4		e.			2					0	0		
Hellevoetsluis	30.01	762.3	30.01	762.3	62.4	16.9	69	e.			2					0	0		
Utrecht	30.01	762.2	30.06	763.4	65.8	18.8	61	ese.			3		8			0	0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.7			80.6	27.0	97	nne.	1.5	0.7			8			0.071	1.8		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.12	765.1	30.19	766.7	60.4	15.8	71	ssw.	12.3	5.5			8			0	0		
Brono	30.07	763.8	30.11	764.8	60.4	15.8	63	s.			0		4			0	0		
Christiania	30.00	761.9	30.14	765.6	61.3	16.3	69	sw.	7	3			9			0.004	0.1		
Gjesvær	30.04	763.0	30.00	763.6	58.5	14.7		calm			0		7						
Lodingen	30.04	762.9	30.08	764.1	57.4	14.1	73	sw.			2		10			0	0		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	84	e.	3.1	1.4			3			0.142	3.6		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.98	761.0	30.07	763.7	86.5	30.3	30	ne.	4.3	1.9			2	ne.		0.031	0.8		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.4	30.15	765.7	72.9	22.7	58		18.1	8.1			4					raining	The Staff.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	72.7	22.6	74	ese.	3.1	1.4			3			0.028	0.7		
Saint Paul de Loando	29.77	756.1	29.97	761.2	74.5	23.6	83	wsw.			4		2	s.		0	0		
San Salvador, Congo	28.10	713.7	29.91	759.0	80.4	30.2	47	n.			1		6	e.					
Serra da Estrella	25.45	646.4	30.06	763.5	63.0	17.2	35	nw.	6.3	2.8			7			0	0		
RUSSIAN.																			
Akmolinski	28.84	732.4	29.89	759.1	62.1	16.7	36	ne.	9	4			9 k			0	0		Major K. Lasarew.
Archangel	30.53	775.5	30.55	776.0	56.3	13.5	86	s.	4	2		0	8 ks			blank	blank		Capt. Sseliwerstow
Ashurada	30.00	763.6	29.97	761.2	84.0	29.2	46	sw.	7	3		0	6 km			0	0		
Astrakhan	30.34	770.6	30.27	768.8	71.4	21.9	23	e.	11	5		0	1 k			0	0		Capt. Wisganow.
Baku	30.19	766.7	30.14	765.5	69.0	20.9	56	nne.	22	10		0	6 ks			0.039	1.0		
Barnaul	29.41	746.9	29.89	759.2	62.1	16.7	41	calm	0	0			0			0	0		Meteorological Obs'y
Bieloserak	30.01	762.3	30.47	773.9	70.7	21.5	63	calm	0	0		2 c	0			0	0	light clouds	
Dorpat	30.15	765.9	30.39	771.9	74.8	23.8	40	ssw.	7	3		0	0			0	0		Observatory.
Ekaterinburg	29.03	737.3	29.97	761.1	64.4	18.0	64	nw.	18	8		c	6 k			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.72	755.0	30.10	766.1	74.1	23.4	16	ese.	18	8		2 cs	0			0	0		
Irkutsk	28.30	718.8	29.93	760.3	50.5	10.3	66	nw.	22	10			2			0	0		
Kasalinsk					59.4	15.2	36	sw.			1	0	8 n						
Kasan	29.99	761.8	30.25	768.4	73.4	23.0	57	w.	4	2			10			0.118	3.0	light clouds	Observatory.
Kem	30.43	773.0	30.48	774.3	52.3	11.3	93	se.	9	4			10 k			0	0	h'vy clouds	
Kertch	30.00	761.9	30.02	762.5	60.4	15.8	79	e.	13	6			10 n			0.346	8.8		Lagorio & Sastyrea.
Kieff	29.60	751.8	30.22	767.5	71.1	21.7	21	e.	18	8		0	0			0	0		Observatory.
Koslov	29.88	758.9	30.37	771.4	71.8	22.1	40	ene.	4	2		0	0			0	0		
Libau	30.25	768.4	30.28	769.0	63.9	17.7	81	nw.			3		0			0	0		E. Quaas.
Lugan	30.02	762.6	30.22	767.6	74.8	23.8	14	ene.	34	15			0			0	0		Meteorological Obs'y.
Moscow	29.98	761.5	30.44	773.2	71.4	21.9	42	calm	0	0		0	0			0	0		Meteorological Obs'y
Nikolaiev	30.01	762.2	30.05	764.0	74.1	23.4	40	e.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					55.8	13.2	70	ne.	2	1		3 ck	0						Iwanow.
Pekin, China	29.74	755.3	29.88	758.9	64.2	17.9	49	nw.	3.4	1.5		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.65	753.2	29.99	761.8	72.7	22.6	30	nw.	2	1		0	4 s			0	0		
Petrozavodsk	30.24	768.2	30.44	773.2	57.0	14.2	95	ese.	9	4			10			0.004	0.1		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.76	755.9	30.25	768.3	69.4	20.8	43	ese.	13	6		0	0			0	0		
Poti	29.89	759.2	29.92	760.0	70.7	21.5	79	e.	9	4		0	2 ks			0.161	4.1		
St. Petersburg	30.42	772.6	30.44	773.2	75.4	24.1	35	sw.	4	2		0	0			0	0		Central Physical Obs'y.
Samarkand	27.56	700.0	29.93	760.2	74.5	23.6	37	calm	0	0		2 ck	0			0	0		
Semipalatinsk	29.26	743.2	29.90	759.5	64.2	17.9	41	calm	0	0			2			0	0		Major Lasarew
Sevastopol	29.74	755.3	29.94	760.5	75.6	24.2	72	nw.	11	5		0	2 k			blank	blank		
Starol Bykhov	29.85	758.2	30.39	771.8	75.2	24.0	33	ese.	9	4		0	0			0	0		
Tashkend Laboratory	28.30	718.7	29.89	759.2	76.1	24.5	33	calm	0	0		3 cs	0			0	0		Terch, A. M
Tiflis	28.73	729.6	30.14	765.5	58.8	14.9	97	w.	2	1			10 n			0.177	4.5	thnd'r str'm	Physical Observatory.
Vernoe	27.37	695.1	29.78	756.3	69.1	20.6	53	calm	0	0		0	6 k			0	0		
Viatka	29.69	754.0	30.31	769.8	63.7	17.6	59	n.	4	2			1			0	0		
Warsaw	29.73	755.1	30.14	765.6	66.4	19.1	59	e.	16	7		0	3 k			0	0		Astronomical Obs'y.
Yeniseisk	29.61	752.0	29.89	759.2	48.9	9.4	96	w.	2	1			10			0.287	7.3	raining.	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	77.7	25.4	68	ene.	11.2	5.0		0	6			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.22	767.6	30.28	769.1	72.3	22.4	67	nw.	3.8	1.7		2	6	nw.		0.322	8.2	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.25	692.1	30.19	766.9	60.8	16.0	73	ne.	7.4	3.3			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.4	29.95	760.8	84.6	29.2	31	sw.	7.2	3.2		3	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.86	758.4	30.00	762.0	82.2	27.9	55	e.	5.8	2.6		3	3	wsw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.49	749.1	30.25	768.4	57.2	14.0	93	se.	6.3	2.8		4 s		s.	s.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.31	744.5	30.20	767.1	64.8	18.2	57	n.	15.0	6.7			6			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.90	759.5	29.97	761.2	77.3	25.2	87	s.	1.3	0.6		cs	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	760.0	82.0	27.8	86	w.	14.3	6.4		2 ck	5 k		sw.	0.039	1.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	761.9	30.10	764.4	76.3	24.6	72	w.	9.4	4.2		4	4	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.95	760.8	30.04	763.1	82.4	28.0	85	se.	5.4	2.4		5 cs	5 kn	se.	se.	0.138	3.5	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.26	768.6	30.30	769.6	59.0	15.0	91	s.			2		6			0	0		
Umea	30.19	766.9	30.24	768.2	58.3	14.6	83	sw.			4		10			0	0		
Hernosand	30.13	765.2	30.18	766.5	59.0	15.0	91	sse.			2		8			0	0		
Stockholm	30.06	763.4	30.23	767.9	60.1	15.6	78	ssw.			4		10			0	0		
Wisby	30.12	765.0	30.18	766.5	64.0	17.8	70	ssw.			4		5			0.047	1.2		
Sub-series.																			
Upsala	30.11	764.7	30.19	766.9	58.8	14.9	85	s.	15.9	7.1			10		s.	0	0		H. H. Hildebrandesson.
Swiss.																			
Geneva	28.68	728.5	30.09	764.3	59.5	15.3	85	e.			1		10			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.00	762.0	73.9	23.3	65	n.	8	3.5			8		sw.	0	0		The Observatory.
Valona			30.15?	765.9?	70.7	21.5		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	759.0	82.9	28.3	52	nw.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.85	682.0			64	17.8	73	calm			0		9 n		w.	0	0	threatening.	Fred L. Kingsbury.
United States.																			
Albany, New York	30.35	770.9	30.43	772.9	47	8.3	77	ne.	3	1.3		0	fg.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.31	769.9	45	7.2	83	sw.	1	0.4		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.89	759.2	54	12.2	72	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.12	688.8	29.97	761.2	60	15.6	62	nw.	6	2.7			10 n		w.	inap.	inap.	light rain	B. O. Lenoir.
Atlanta, Georgia	28.89	733.8	30.06	763.5	57.0	13.9	61	n.	5	2.2		3 c	0	se.		0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	63	17.2	84	ne.	29	13.0			10 n		n.	inap.	inap.	light rain	Jas. M. Watson.
Augusta, Georgia	29.78	756.4	29.97	761.2	64.0	17.8	48	nw.	6	2.7		6 c;ce	0			0	0	fair	D. J. Young.
Baltimore, Maryland	30.23	767.8	30.28	769.1	56	13.3	74	ne.	7	3.1			10 s			0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.24	768.1	30.26	768.6	61.0	16.1	84	e.	25	11.2			10 s		e.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.88	758.9	29.90	759.4	41.7	5.4	97	sw.	8	3.6		0	1 s			0	0	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.34	719.8	29.93	760.2	60.0	15.6	87	se.	4	1.8		hz.	hz.			0	0	light haze	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	30.06	763.5	61	16.1	67	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.10	713.7	29.90	759.4	59.5	15.3	87	e.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.35	770.9	30.38	771.6	58	14.4	70	e.	13	5.8		4 cs	0	w.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.14	689.3	29.91	759.7	49.5	9.7		nw.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.27	768.8	30.42	772.7	47.8	8.8	87	sw.	2	0.9		5 c	fk.	w.		0	0	fair	O. B. Colz.
Brownsville, Texas	29.94	760.5	30.00	762.0	72.0	22.2	100	n.	2	0.9		hz.	hz.			0	0	dense haze	E. C. Imlay.
Buffalo, New York	29.59	751.6	30.32	770.1	45.8	7.7	85	ne.	6	2.7		0	sk.			0	0	dense smoke	Wm. Flinn.
Buford, Fort, Dakota	27.92	709.2	29.90	759.4	49	9.4	93	nw.	7	3.1		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.79	756.7	30.19	766.8	55.6	13.1	76	ne.	7	3.1		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.82	757.4	30.02	762.5	57.2	14.0	98	s.	4	1.8		0	3 s			0.02	0.5	clear	O. D. Stewart.
Cape Henry, Virginia	29.96	761.0	29.98	761.5	67.0	19.4	100	ne.	50	22.5			10 n			0.92	23.4	heavy rain	A. K. Alderson.
Cape May, New Jersey	30.16	766.1	30.19	766.8	63.0	17.2	84	ne.	23	10.3			10 s		e.	0	0	threatening.	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.2	57	13.9	86	n.			1	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	68.5	20.3	66	n.	9	4.0		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.60	751.8	29.66	753.4	62.0	16.7	87	nw.	20	8.9			10 s		nw.	0.49	12.4	threatening	J. H. Smith.
Charlotte, N. Carolina	29.09	738.9	29.93	760.2	58.0	14.4	53	ne.	16	7.2			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.08	764.0	60.0	15.6	60	ne.	2	0.9		1 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.99	761.7	44.1	6.7	65	nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.57	751.1	30.26	768.6	53.5	11.9	76	se.	1	0.4		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.09	764.3	30.11	764.8	64	17.8	100	ne.	18	8.0			10 n		ne.	0.40	10.2	heavy rain	C. F. Dickens.
Cincinnati, Ohio	29.56	750.8	30.21	767.3	51.0	10.6	76	ne.	3	1.3		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.56	750.8	30.28	769.1	45	7.2	76	se	3	1.3		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.39	746.5	30.23	767.8	44	6.7	83	ne.	3	1.3		0	fg.			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.14	714.7	30.04	763.0	64.0	17.8	93	se.	4	1.8			10 s			0.13	3.3	cloudy	J. McGlone.
Custer, Fort, M. T.	26.77	679.9	29.89	759.2	52	11.1	61	sw.	4	1.8		3 c	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.57	751.1	30.22	767.6	50	10.0	86	se.	3	1.3		0	fg.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.93	760.2	58	14.4	57	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.25	717.5	30.00	762.0	59	15.0	60	s.	4	1.8		10 k	0			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.37	644.4	29.93	760.2	54	12.2	78	calm	0	0		7 c	0	s.		inap.	inap.	fair	F. Des Willson.
Delaware Breakwater, Del	30.17	766.3	30.19	766.8	64	17.8	100	ne.	34	15.2			10 s		ne.	0	0	threatening	T. S. Townsend.
Denver, Colorado	24.80	629.9	29.91	759.7	60.0	15.6	50	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.32	744.7	30.20	767.1	53	11.7	72	s.	2	0.9		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.58	751.3	30.27	768.8	53.0	11.7	80	ne.	8	3.6			10 s			c	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.51	698.7	30.06	763.5	60.5	15.8	92	se.	6	2.7		0	1 s			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.54	750.3	30.24	768.1	49	9.4	84	s.	1	0.4		0	fg			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.32	744.7	30.06	763.5	57	13.9	74	sw.	1	0.4		0	hz.			0	0	clear	N. B. Conger.
Eastport, Maine	30.32	770.1	30.39	771.9	48.5	9.2	77	nw.	8	3.6		3 c	1s;sk	w.	nw.	0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.35	694.7	30.04	763.0	64	17.8	84	calm	0	0		10 k	0			0.23	5.8	cloudy	J. C. Rickli.
El Paso, Texas	26.26	667.0	29.91	759.7	63.0	17.2	63	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.62	752.3	30.33	770.4	49	9.4	86	se.	1	0.4		1 c	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.57	751.1	30.23	767.8	55.0	12.8	77	s.	6	2.7		3 ck	5 s	sw.	sw.	0	0	cloudy	George Heathcote.
Galveston, Texas	30.00	762.0	30.04	763.0	77	25.0	76	ne.	9	4.0		0	hz.			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.63	752.6	30.29	769.4	50.0	10.0	86	e.	3	1.3		8 ck	0	sw.		0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.24	641.1	29.84	757.9	67.9	19.9	53	ne.	4	1.8		1 cs	0	sw.		0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.78	756.4	29.80	756.9	76.0	24.4	90	e.	28	12.5			10 s		e.	4.00	101.6	threatening	R. M. Crawford.
Helena, Montana	25.75	654.0	29.92	760.0	63	17.2	58	ne.	6	2.7		0	0			0	0	clear	T. H. Jones.

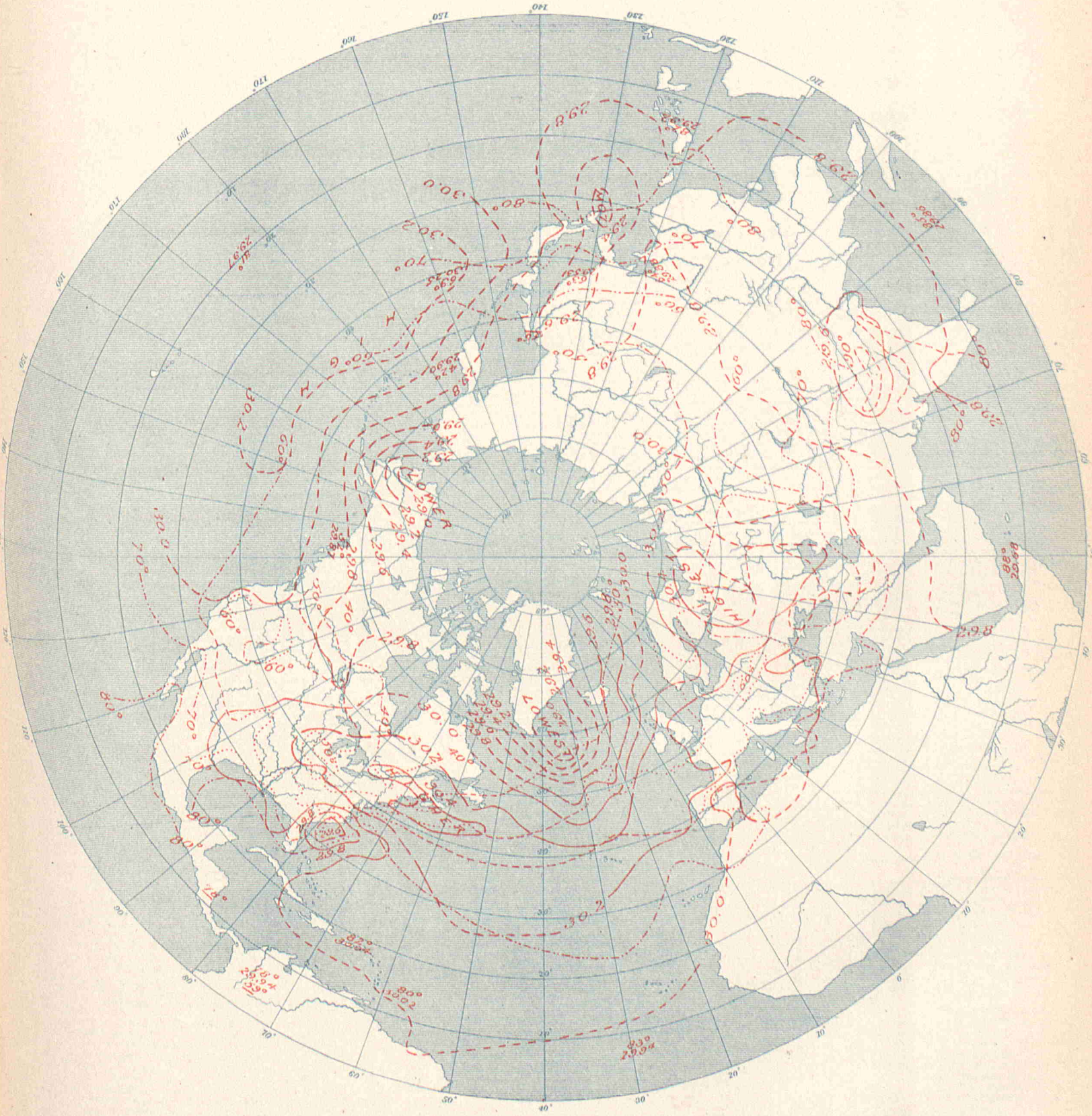
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.61	726.7	29.99	761.7	57.9	14.4	85	se.	12	5.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.41	747.0	30.19	766.8	46.0	7.8	76	ne.	4	1.8		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	76.0	24.4	97	n.	10	4.5		0	hz.			0	0	dense haze	I. A. Reed.
Jacksonville Florida	29.91	759.7	29.95	760.7	68.0	20.0	49	nw.	8	3.6		3 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.57	751.1	30.22	767.6	49.0	9.4	71	e.	5	2.2		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.91	759.7	29.93	760.2	83.0	28.3	72	calm.	0	0		0	3 ks		sw.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.88	758.9	29.50	759.4	71	21.7	94	ne.	26	11.6		0	9 ks		ne.	2.71	68.8	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.08	738.6	30.10	764.5	52.8	11.6	51	ne.	5	2.2		3 c	0	s.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.21	767.3	53	11.7	80	s.	4	1.8		0	0			0.09	2.3	clear	S. C. Emery.
Leavenworth, Kansas	29.30	744.2	30.18	766.6	51	10.6	86	calm	0	0		1 cs	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.12	739.6	29.95	760.7	62.0	16.7	60	se.	1	0.4			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.82	757.4	30.13	765.3	58	14.4	80	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	58.5	14.7	96	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.60	751.8	30.15	765.8	48	8.9	74	n.	10	4.5		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.43	747.5	30.11	764.8	58	14.4	74	ne.	11	4.9			10 s		ne.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.62	752.3	30.27	768.8	52.0	11.1	72	sw.	5	2.2		0	7 s			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	29.69	754.1	29.70	754.4	75.0	23.9	85	se.	45	20.1			10 s		se.	5.80	147.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.57	649.5	29.97	761.2	56	13.3	74	e	5	2.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.44	747.8	30.16	766.1	57.0	13.9	69	sw.	18	8.0			10 ks		w.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.10	764.5	61	16.1	72	nw.	4	1.8		0	sk.			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.54	750.3	30.28	769.1	52	11.1	86	nw.	5	2.2		7 ck	sk.	nw.		0	0	fair	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	72	22.2	90	n.	2	0.9		0	hz.			0	0	light haze	H. U. Jones.
Montgomery, Alabama	29.82	757.4	30.00	763.5	63	17.2	84	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.96	735.6	29.96	761.0	55	12.8	93	s.	6	2.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	24.15	613.4	30.30	769.6	39.0	3.9	44	nw.	6	2.7		2 c	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.11	764.8	54.0	12.2	86	nw.	4	1.8		0	fg.			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.26	768.6	30.37	771.4	46	7.8	93	ne.	9	4.0		7 c	0	sw.		0	0	fair	J. H. Sherman.
New London, Connecticut	30.34	770.6	30.40	772.1	50	10.0	77	n.	4	1.8		7 c	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.00	762.0	77.7	25.4	82	se.	3	1.3		5 ck	3 s	w.		0	0	cloudy	M. Herman.
New York, New York	30.18	766.6	30.34	770.6	55	12.8	80	ne.	10	4.5		0	7s;fg			0	0	fair	H. J. Penrod.
Norfolk, Virginia	29.92	760.0	29.95	760.7	67.0	19.4	100	ne.	24	10.7			10 n		ne.	1.78	45.2	heavy rain	Wm. Davis.
North Platte, Nebraska	27.13	689.1	30.01	762.2	57.6	14.2	92	e.	10	4.5		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	57.0	13.9	93	calm	0	0			10 s			0.12	3.0	cloudy	J. Dascomb.
Omaha, Nebraska	29.01	736.8	30.18	766.6	56.8	13.8	75	calm	0	0		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	30.04	763.0	30.36	771.1	43.5	6.4	93	se.	8	3.6		0	0			0	0	clear	J. G. Linsley
Palestine, Texas	29.55	750.6	30.10	764.5	65.0	18.3	93	ne.	8	3.6		0	fg.			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	70.2	21.2	64	ne.	6	2.7		0	hz.			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.22	767.6	30.32	770.1	54.5	12.5	90	ne.	14	6.3			10 s		ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	30.07	763.8	30	— 1.1	84	sw.	15	6.7		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.47	748.5	30.20	768.6	46.6	8.1	77	calm	0	0		9 cs	0	w.		0	0	cloudy	G. O. Schaeffer.
Poplar River, Montana					49	9.4	71	se.			1	2 ck	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.63	752.6	30.30	769.6	44.0	6.7	83	se.	2	0.9		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.37	771.4	30.42	772.7	51	10.6	72	ne.	5	2.2		2 c	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	55.0	12.8	90	sw.	2	0.9			10 s		s.	0.01	0.3	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.90	759.4	58.5	14.7	62	s.	2	0.9		0	2 ks			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.38	771.6	30.41	772.4	57	13.9	69	e.	2	0.9		4 cs	1 s	w.		0	0	fair	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.58	751.3	29.93	760.2	65	18.3	68	s.	2	0.9		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.51	749.5	30.06	763.5	51.3	10.7	84	nw.	1	0.4		1 c	0	w.		0	0	clear	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	62.0	16.7	78	se.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.63	752.0	30.22	767.6	52.0	11.1	80	ne.	5	2.2		1 c	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	28.95	735.3	28.98	730.1	45	7.2	93	s.	6	2.7			10 s			0.23	5.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.27	743.4	30.12	765.0	54.5	12.5	80	se.	7	3.1		0	2 s		se.	0.10	2.5	clear	P. F. Lyons.
St. Vincent, Minnesota	28.96	735.6	29.83	757.7	57	13.9	96	s.	6	2.7		0	6ks;hz		s.	0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.59	650.0	29.84	757.9	67	19.4	44	se.	4	1.8			10 ks		sw.	0	0	cloudy	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.85	758.2	29.92	760.0	64.0	17.8	84	ne.	3	1.3			10 s		n.	0	0	cloudy	F. R. Day.
Sanford, Florida	29.90	759.4	29.95	760.7	68.4	20.2	75	sw.	4	1.8		0	0			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.61	752.1	30.28	769.1	51	10.6	80	se.	8	3.6		0	0			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	58.0	14.4	80	ne.	23	10.3		10 k	0	ne.		0	0	cloudy	B. A. Blunden.
San Francisco, California	29.90	759.4	29.97	761.2	56.5	13.6	90	w.	17	7.6		0	fg.		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.77	756.1	29.86	758.4	65.5	18.6	48	nw.	15	6.7		7 c	0	se.		0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.94	760.5	52	11.1	80	w.	3	1.3		6 k	0	w.		0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.83	757.7	30.07	763.8	59.8	15.4	65	ne.	4	1.8		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.87	733.3	30.09	764.3	62	16.7	84	n.	5	2.2		3 k	0	n.		0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.81	757.2	29.87	758.7	52	11.1	86	e.	4	1.8			10 n		e.	0.40	10.2	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.67	753.6	30.14	765.5	54.3	12.4	74	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.14	740.1	29.18	741.2	71.0	21.7	100	e.	58	21.6			10 n		e.	4.24	107.7	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.96	761.0	57	13.9	69	s.	1	0.4		3 c	6 k	s.		0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.56	750.8	30.23	767.8	47.5	8.6	70	e.	6	2.7		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.05	687.1	30.01	762.2	63	17.2	84	e.	1	0.4		0	3 s			0.03	0.8	clear	Louis Dorman.
Thomas, Camp, Arizona					63	17.2	63	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.57	751.1	30.25	768.3	50	10.0	86	s.	2	0.9			fg.			0	0	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskha, Alaska	29.79	756.7	29.82	757.4	46	7.8	78	sw.	12	5.4			10 n		sw.	0.10	2.5	light rain	Samuel Applegate.
Verde, Fort, Arizona					66	18.9	44	w.			1	6 ck	0			0	0	fair	E. B. Montgomery.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	59.6	15.3	87	n.	2	0.9		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.14	765.5	30.25	768.3	56.1	13.4	73	n.	11	4.9			10 s		e.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.09	662.7	29.91	759.7	50.5	10.3	96	w.	2	0.9		2 c	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.																			B. F. Hough.
Wilmington, N. Carolina	29.36	745.7	29.41	747.0	71.5	21.9	92	e.					10 n		e.	7.30	185.4	light rain	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.76	730.5	30.05	763.3	58.9	14.9	76	s.	5	2.2		hz.	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.59	751.6	29.73	755.1	70.9	21.6	42	calm	0	0		0	2 s		se.	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		nw.			2		10 n		n.	0.01	0.3	raining	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			58.6	14.8	51	calm	0	0		3ck;cs	5 ks;s	nw.	nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	70.1	24.5	88	n.	2	0.9		10ok;s	0			0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	80	26.7	78	se.			1	5 ck	5 k	e.	e.	0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	746.2	29.94	760.5	78	25.6	89	calm			0		10 ks		se.	0.07	1.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	90	ne.			1	8 ck	2 ks			1.16	29.5		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Ice Factory, B. A.	29.90	759.4	29.96	761.0	40.0	4.4	91	sw.	9	4.0		0	1 s		sw.	0	0		Fortescue & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	30.00	762.0	80	26.7	70	ssw.			1		1	ssw.				sm'h		blue sky.
H. M. S. Coquette, N. 39° 05′, E. 20° 20′	30.03	762.7	72	22.2		sse.			1		4	calm				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.12	765.0	81.5	27.5	81	ese.			4		3	ese.						d. clouds.
H. M. S. Flamingo, N. 52° 10′, W. 55° 29′	30.06	763.5	44	8.4	84	wnw.			3		0					1	nw.	blue sky.
H. M. S. Griffon, N. 22° 13′, W. 74° 26′	30.03	762.7	84	28.9	91	se.			3		1	ese.						blue sky.
H. M. S. Iris, off Port Said, Egypt	29.88	758.9	80	26.7	82	nnw.			4		2	nnw.						d. clouds.
H. M. S. Tenedos, St. Johns, N. F.	30.33?	770.4?	54	12.2	87	wnw.			5		0					4	wnw.	blue sky.
U. S. Navy Yard, Portsmouth, N. H.*	30.38	771.6	49	9.4	85	w.	2	0.9			0			0	0			hazy
U. S. S. Alliance, N. 45° 27′, W. 59° 13′	30.36	771.1	56	13.3	87	wnw.			3		2			0	0	sm'h		clear.
U. S. S. Galena, Brooklyn, N. Y.			60	15.6	?	ene.			2		10					sm'h		raining.
U. S. S. Jamestown, N. 32° 28′, W. 160° 41′	30.14	765.5	77	25.0	77	ene.			2		8		ne.			sm'h	ne.	fair.
U. S. S. Kearsarge, N. 39° 34′, W. 25° 25′	30.27	768.8	74	23.3	76	ese.			1		8		calm			sm'h		fair.
U. S. S. Lancaster, Port Mahon, Spain	30.03	762.7	78	25.6	91	sw.			2		2		sw.			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass.	30.41	772.4	55	12.8	100	ne.			1		2?		e.					cloudy?
U. S. S. Powhatan, N. 42° 02′, W. 64° 35′†	30.43	772.9	57	13.9	87	ne.			1		10							cloudy.
U. S. S. Quinnebaug, Gibraltar, Mediterranean			74	23.3	86	wnw.			2		2		nw			sm'h		clear.
U. S. S. Saratoga, Oyster Bay, Long Island	30.38	771.6	56	13.3	?	e.			2		8		e.			sm'h	ene.	cloudy.
U. S. S. Swatara, Port Hood, C. B.	30.36	771.1	57	13.9	75	nw.			2		5?		nw.	light	light	sm'h		cloudy ?
U. S. S. Vandalia, Georgetown, P. E. I.	30.35	770.9	51	10.6	86	nw.			1		0							clear.
U. S. S. Yantic, N. 53° 18′ W. 51° 37′	29.98	761.5	43	6.1	83	sw.			6–7		5					mod	nw.	fair.
S. S. British Princess, N 42° 05′, W. 61° 03′	30.34?	770.6?	60	15.6		ne.			4		0?			0	0	mod.	ne.	cloudy.?
S. S. Lord Clive, N. 50° 56′, W. 23° 43′						s.			8		10			14 h'r	14 h'r	str'g	s;sw.	rainy.
S. S. Lord Gough, N. 50° 33′, W. 23° 00′	29.78	756.4	57	13.9		s.			6		10		s.	0	0	high	s.	threatening.
S. S. Ohio, Liverpool, Eng†	30.17	766.3	61	16.1	71	n			2		0			0	0			clear.
S. S. Grecian, N. 56° 35′, W. 18° 20′	29.76	755.9	52	11.1	100	sw.			6		10		ssw.	½ h'r	½ h'r	mod.	ssw.	cloudy.
S. S. Nova Scotian, N. 41° 42′, W. 66° 40′	30.37	771.4	67	19.4		ne.			3		10		ssw.			sli't	sw.	cloudy.
S. S. Polynesian, N. 56° 17′, W. 34° 04′	28.89	733.8	52	11.1		wsw.			9		3		wsw.	0	0	h'vy	wsw.	fair.
S. S. Prussian, N. 44° 49′, W. 26° 21′	30.38	771.6	55	12.8		nne.			3		5		nne.	0	0		wnw.	cloudy.
S. S. Scandinavian, N. 55° 18′, W. 8° 53′	30.13	765.3	55	12.8		s.			2		2		calm	0	0	long	wnw.	d. clouds.
S. S. Alvo, off Cape Tiburon, Porto Rico, W. I.*	29.95?	760.7?	81	27.2		e.			5-6		4		e.	0	0	long	ene.	fine.
S. S. Avila, Mayagues, Porto Rico, W. I.	30.06	763.5	79	26.1		se.			1		5			0	0			
S. S. Australia, N. 40° 20′, W. 24° 29′*†	30.24	768.1	72	22.2		se.			2		4		se.	shr's	shr's	cross	nw.	fine.
S. S. Devonia, N. 51° 45′, W. 33° 47′*†	29.60	751.8	52	11.1		w.			8		4		w.			h'vy	w.	squally.
S. S. Dorian, N. 37° 20′, W. 1° 05′	29.99	761.7	78	25.6		calm			0		0			0	0	sm'h		clear.
S. S. Furnesia N. 42° 58′, W. 54° 44′†	30.43	772.9	63	17.2	72	nne.			4		5?		ne.	0	0	sm'h	ne.	overcast?
S. S. Carroll, N. 45° 54′, W. 61° 48′*†	30.43	772.9	58	14.4	88	nw.			2		3		nw.	0	0	short	ne.	fair.
S. S. Landaff City, N. 50° 12′, W. 26° 13′†	29.98?	761.5?	62	16.7		sw.			7		10		w.	10 h'r	10 h'r	h'vy	sw.	heavy rain.
S. S. Gallia, N. 50° 34′, W. 27° 58′	29.76?	755.9?	64	17.8	83	w.			6		10		w.	shr's	shr's	high	sw.	squally.
S. S. Pavonia, N. 40° 53′, W. 67° 44′*	30.35	770.9	60	15.6	76	ene.			4		8		e	0	0	sm'h		cloudy.
S. S. Canada, N. 42° 07′, W. 66° 57′	30.43?	773.5?	55.4	13.0		calm			0	c	0			0	0	sm'h		clear.
S. S. France, N. 49° 10′, W. 23° 06′ †	29.95?	760.7?	57.2	14		s.			7		10		sw.	rain	rain	h'vy	s.	squally.
S. S. Wisconsin, N. 51° 20′, W. 23° 20′			58	14.4		ssw.			7		10		ssw.	4 h'r	4 h'r	h'vy	wsw.	cloudy.
S. S. Wyoming, N. 50° 42′, W. 22° 14′	29.80	756.9	57	13.9		ssw.			6		8		w.	4 h'r	4 h'r	h'vy	wsw.	threatening.
S. S. Frisia, N. 49° 43′ W. 25° 02	29.88	758.9				wsw.			7		10		w.	5 h'r	5 h'r	high	wsw.	rainy.
S. S. Gellert, New York, N. Y	30.38	771.6	55	12.8	100	ne.			3		6		ene.	0	0			cloudy.
S. S. Silesia, N. 49° 42′, W. 8° 30′	30.38	771.6	59	15.0		n.			2		2			0	0	long	nw.	hazy.
S. S. Westphalia, New York, N. Y.	30.28?	769.1?	65	18.3	89	ne.			6		10		ne.	0	0			overcast.
S. S. Rhaetia, N. 49° 02′ W. 34° 21′*	29.80	756.8	54	12.2		wnw.			7		8		wnw.	0	0	r'gh	wnw.	stormy.
S. S. Bulgarian, N. 50° 27′, W. 29° 31′*	29.80	756.9				sw.			6		5		wsw.	4 h'r	4 h'r	high	sw.	heavy gale.
S. S. Rosse, N. 47° 48′, W. 25° 00′ *	30.09	764.2	64	17.8		ssw.			7		10		sw.	0	0	high	ssw.	cloudy.
S. S. Rio Grande, N. 25° 00′ W. 84° 23′†	29.95	760.7	83	28.3		n.			2		2		sw.	0	0			clear.
S. S. Chalmette, Algiers, La†	30.04	763.0	75	23.9		calm			0		8			0	0			cloudy.
S. S. New York, N. 26° 00′ W. 85° 15′*†	30.00	762.0	82	27.8		ne.			5		2		ne.	0	0	sm'h	ne.	clear.
S. S. Lone Star, N. 24° 35′, W. 83° 15′ †*	30.04?	763.0?	84	28.9		ne.			1		0			0	0	sm'h		clear.
S. S. Alleghany, Boston, Mass. †	30.43	772.9	50	10.0		e.			2		2		e.	0	0			fair.
S. S. Archimede, Palermo, Sicily †	30.08	764.0	76	24.4		nne.			6		7?		nne.	0	0			clear?
S. S. City of Washington, N. 28° 07′, W. 79° 47′ *†	29.90	759.4	78	25.6		nw.			6		2		nw.	4 h'r	4 h'r	h'vy	nne.	fine.
S. S. Denmark, N. 49° 12′, W. 27° 30′†	29.89	759.2	61	16.1		sw.			7		8		sw.	2 h'r	2 h'r	hv'y	sw.	heavy rain.
S. S. Egypt, N. 46° 02′ W. 42° 34′	30.20?	767.1?	56	13.3		w.			4		5			4 h'r	4 h'r	hv'y	w.	fair.
S. S. America, N. 43° 30′, W. 52° 30′*	30.44	773.2	57.0	13.9	75	nw.			4		10		nw.	0	0	long	nw.	overcast.
S. S. Elbe, Bremerhaven, Germany	30.17	766.4	67.1	19.5	81	e.			2		1?			0	0			cloudy?
S. S. Fulda, N. 50° 16′, W. 22° 19′			55.4	13.0	100	sw.			7		10		sw.	3 h'r	3 h'r	r'gh	sw.	raining.
S. S. Gen. Werder, N. 40° 41′ W. 71° 40′	30.39	771.9				ene.			3		8		e.	0	0	sm'h	ene.	cloudy.
S. S. Habsburg, N. 43° 04′, W. 57° 34′	30.43	772.9				wnw.			2		3		wnw.	0	0	sm'h	wnw.	clear.
S. S. Oder, N. 45° 24′, W. 45° 51′	30.24	768.1	55.4	13.0		w.			4		7		nw.	0	0	high	w.	fair.
S. S. Ohio, Baltimore, Md	30.20	767.1				n.			3		10		w.	0	0			cloudy.
S. S. Salier, N. 49° 30′, W. 11° 45′*	30.38	771.6	60.8	16.0	59	ene.			4					0	0	sm'h	nw.	fair.
S. S. Strassburg, N. 50° 00′ W. 16° 34′	30.26	768.6	61.0	16.1	51	ssw.			4		10		s.	0	0	2	var.	cloudy.
S. S. Werra, N. 48° 11′, W. 41° 51′	30.04	763.0	55.4	13.0		wnw.			6		10		wnw.	4 h'r	4 h'r	high	w.	squally.
S. S. Weser, N. 49° 33′ W. 9° 30′	30.37	771.4	58.1	14.5		nw.			3		2		nw.	0	0	long	wnw.	clear.
S. S. City of Augusta, New York, N. Y.	30.37	771.4				ne.			6		8		ne.	0	0			clear ?
S. S. Muriel, St. Thomas, W. I.	29.99	761.7	85	29.4		e.			2		0			light	light	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic*†	30.23?	767.6?	81	27.2		se.			2		4		se.	½ h'r	½ h'r			fair.
S. S. Belgenland, N. 49° 12′, W. 11° 00′†	30.42?	772.7?	58	14.4	70	calm			0		0			0	0	long	nw.	clear.
S. S. Nederland, N. 47° 45′, W. 47° 12′			55	12.8	93	w.			5		0			0	0	mod.	wsw.	clear.
S. S. Rhynland, N. 50° 30′ W. 25° 29′			54	12.2	87	wsw.			3		1		wsw.	6 h'r	6 h'r	mod.	nw.	clear
S. S. Pennland, Antwerp, Belgium	30.04	763.0	61	16.1	94	se.			2		8		se.	0	0			cloudy.
S. S. Switzerland, N. 43° 23′. W. 58° 18′*†	30.44	773.2				wnw.			1		2		wnw.	0	0	light	wnw.	clear.
S. S. Vaderland, Antwerp, Belgium	30.16	766.1	62	16.7		se.			2		5		e.	1 h'r	1 h'r			fair.
S. S. Waesland, New York, N. Y	30.37	77 .4	56	13.3		nne.			5		8		nne.	0	0			cloudy.
S. S. Zeeland, N. 49° 19′. W. 31° 36′ *†	29.92	760.0	56	13.3		wsw.			6		8		wsw.	rain	rain	high	wsw.	cloudy.
S. S. P. Caland, N. 44° 45′, W. 51° 45′	30.34	770.6	57.2	14	87	wnw.			4		4		w.			3	w.	fair.
S. S. W. A. Scholten, N. 50° 37′, E. 0° 30′	29.96	761.0	59.0	15.0	100	ne.			0		7		e.	12 h'r	12 h'r	1	ne.	raining.
S. S. Belize, N. 35° 08′, W. 73° 46′			80	26.7		sse.			6		9		sse.	7 h'r	7 h'r	h'vy	var.	cloudy.
S. S. Valencia, N. 25° 30′, W. 70° 05′ †	30.09	764.3	83	28.3	79	se.			2		7		sse.	5 h'r	5 h'r	h'vy	var.	squally.
S. S. Caracas, N. 18° 03′, W 67° 43′*†	30.10	764.5	83	28.3	79	e.			4		3		e.	½ h'r	½ h'r	mod.	ese.	hazy.
S. S. State of Nevada, N. 47° 51′, W. 44° 54′	30.15	765.8	54	13.3		nw.			5		0			0	0	mod.	nw.	clear.
S. S. State of Alabama, N. 53° 11′. W. 23° 20′*	29.65	753.1	62	16.7		sw.			8		10		w.	12 h'r	12 h'r	h'vy	sw.	raining.
S. S. Thingvalla, Copenhagen, Denmark †	30.25	768.3	63.5	17.5		nne.			2		2		nne.	0	0			clear.
S. S. Romano, Hull, Eng*†	29.99	761.7				e.			2		8		e.	0	0			
S. S. Salerno, New York, N. Y *†	30.37	771.4	50	10.0		nne.			4		10		n.	0	0			cloudy.
S. S. Oregon, N. 55° 57′, W. 31° 36′	28.94	735.1	51	10.6		wsw.			8		9		w.			h'vy	s.; w.	cloudy.
S. S. Daniel Steinmann, N. 41° 28′ W. 25° 43′*†	29.95	760.7	63	17.2		s.			6		0?			0	0	h'vy	ssw.	overcast ?
S. S. Saxon, Philadelphia, Pa †	30.27	768.8				nne.			3		10		ne.	0	0			threatening
S. S. Britannic, N. 48° 42′, W. 37° 30′ †..	29.97	761.2	56	13.3		nw.			6		3		w.	3 h'r	3 h'r	h'vy	wnw.	d. clouds.
S. S. Celtic, Liverpool, Eng†	30.19	766.8	65	18.3	68	nw.			3		5		n	8 h'r	8 h'r	sm'h		fair.
S. S. Germanic, N 41° 44′, W. 51° 42′ *†	30.25	768.3	62	16.7		nne.			3		8		ne.	0	0	mod.	w.	cloudy.
S. S. Amsterdam, N. 49° 40′, W. 11° 43′ †	30.36	771.1	60.8	16		nw.			4								nw.	fair.
S. S. City of Alexandria, Vera Cruz, Mexico*†	29.90	759.4	78	25.6		wsw.			4								n.	raining.
Bk. Arda, N. 53° 42′, W. 3° 42′						e.			1		1		e.	0	0			fair
Bk. Alpheus Marshall, N. 38° 09′, W 65° 15′†	30.30	769.6	76	24.4	91	ene.			4		8		e.	0	0	sm'h	ene.	hazy.
Schr. Arthur Burton, N. 41° 34′, W. 70° 15′ †	30.37	771.4				e.			1		2?		e.	0	0	mod.	ne	threatening.
Schr. Abbie H. Gheen, Delaware Bay †	30.17	766.3	65	18.3		ne.			7									stormy.
S. S. Antonio Lopez, N. 20° 32′, W. 63° 53′	30.16?	766.1?	80	26.7	91	e.			5		7			0	0	mod.	e.	squally.
Bk. Aquidneck, N. 34° 46′, W. 74° 53			79	26.1		ne.			6-8				ne.	2 h'r	2 h'r	h'vy	ne.	light rain.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.			Force.	Amount and kind.		Direction.						
							Velocity.			Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bg. Alcira, N. 36° 32′ W. 73° 30′	30.07	763.8	81	27.2		ene.			6		10		ne.	13 h'r	13 h'r	h'vy	var.	raining.
Bgt. Achsah, N. 26° 46′, W. 60° 28′†	30.14	765.5	83	28.3		ene.			3		5		ene.	3 h'r	3 h'r	mod.	ene.	fair.
Bk. Aureola, N. 15° 19′, W. 26° 47′†	29.85?	758.2?	86	30.0		ese.			4		5		e.	0	0	mod.	ne.	fair.
Bk. Adelaide, N. 27° 40′, W. 50° 15′ *†	30.33?	770.4?				e.			5		3		se.	1 h'r	1 h'r	r'gh	ese.	hazy.
Bg. Belle of the Bay, N. 31° 20′, W. 72° 20′†	30.01	762.2				se.			5		9		se.	24 h'r	24 h'r	high	se.	squally.
S. S. Burswell, N. 47° 04′, W. 17° 03′ *†	30.36	771.1	67	19.4		ssw.			2		7		calm	0	0	str'g	nw.	fair.
S. S. Cannonbury, Humacao, Porto Rico, W. I*†	30.09	764.3				ene.			1		5		ne.	½h'r	½h'r	sm'h		fair.
Bk. Celestina, N. 41° 45′ E. 9° 52′*†	30.14?	765.5?				ese.			0–1		1			0	0	sm'h		clear.
Bk. Ceylon, N. 42° 14′, W. 70° 02′†	30.41	772.4	61	16.1	82	ne.			3		4		ne.	0	0	sm'h	ene.	fair.
Schr. C. R. Flint, N. 35° 19′, W. 66° 04′†	30.23?	767.8?	75	23.9		se.			2		4		s.	0	0	long	ssw.	fair.
Bk. Cato, N. 35° 55′ W. 6° 24′†	30.09	764.3				n.			2		1		n.			sm'h	n.	clear.
Bk. Don Justo, N. 58° 45′, W. 7° 30′						wsw.			4		1		wsw.	0	0	long		clear.
Bk. Childwall, N. 34° 49′, W. 18° 27′*	30.04	763.0	71	21.7	95	nne.			3		8		nne.	0	0	sm'h	ne.	cloudy.
S. S. D. J. Foley, Port Maria, Jamaica, W. I*†	29.96	761.0	80	26.7	82	e.			2		4		e.	1 h'r	1 h'r			fair.
Bkt. David A. Preston, Windsor, N. S						s.			1		0			0	0			clear.
S. Dora, N. 46° 16′ W. 44° 58′ *†	30.27?	768.8?	51.8	11.0		wnw.			3					0	0	mod.	w.	blue sky
S. David Stewart, N. 12° 36′ W. 49° 45′			86	30.0		ne.			3		2		ne.	0	0	mod.	ne.	
S. E. J. Spicer, Antwerp, Belgium	30.08	764.0	63	17.2	94	se.			1		10		se.	0	0			cloudy.
Schr. Edith R. Seward, Brunswick, Ga†	29.77?	756.1?	65	18.3		nw.			5		6		calm	0	0			fair.
Bk. E. D. Bigelow, Galveston Bar, Texas†	30.04	763.0	82	27.8		ne.			4		0			0	0			clear.
Bk. Edmund Phinney, N. 20° 10′ W. 57° 38′ †	30.12	765.0	84	28.9		e.			5		3		e.	3 h'r	3 h'r	r'gh	e.	clear.
Bk. E. L. Pettingill, N. 5° 23′ W. 23° 04′ *†	30.00?	762.0?	80	26.7		sw.			4		8		s.	light	light	mod.	sse.	gloomy.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass †	30.36	771.1	53	11.7		ene.			2		5		calm	0	0			fair.
Bg. George, N. 18° 03′ W. 65° 30′ *†	30.00	762.0	82	27.8		e.			3		10		e.	rain	rain	mod.	ese.	smoky.
Bk. Galeon, N. 43° 30′, W. 12° 23′†	30.35	770.9	64	17.8		ne.			4		5		nne.	0	0		nnw.	d clouds.
Bk. Grey Eagle, N. 24° 10′ W 49° 30′ *†	30.05?	763.3?				e.			4		2		e.	0	0	short	se.	clear.
S. Hedwig, N. 36° 20′ W. 4° 18′	30.00	762.1	75.6	24.2	82	calm			0		8		w.	0	0	sm'h		
Schr. Isabel Alberto, Key West, Fla†	29.87	758.7				nw.			1		2		n.	0	0			clear.
Bkt. Josephine, N. 37° 00′ W. 73° 29′ †	30.02	762.5	76	24.4	77	var.			6		10		sse.	12 h'r	12 h'r	h'vy	se.	light rain.
Bk. Johanne, N. 61° 40′, W. 1° 23′*†	30.12	765.0	58	14.4		wsw.			1		5		sw.	0	0	sm'h		hazy.
Schr. John L. Thomas, N 20° 46′ W. 85° 10′ *†	29.96	761.0	85	29.4	79	se.			2		2		sse.	0	0	light	se.	clear
Schr. Jennie N. Huddell, N. 39° 00′ W. 74° 00′ †	30.25	768.3	65	18.3	100	ene.			6		2		e.	0	0	short	e.	stormy.
Bg. Josefa, Bristol, Eng †	30.20	767.1				nne.			1		8		ne.	8 h'r	8 h'r			clearing.
Bk. Kryolith, Ivigtut, Greenland*†	29.28?	743.7?				calm			0		0							clear.
Bk. Lady Hincks, N. 37° 02′, W. 26° 20′ *†	30.25	768.3							1–3					0	0			fair.
Bg. L. & W. Armstrong, Ft. Royal, Martinique, W.I†*	30.02	762.5				ene.			2		2		ene.	3 h'r	3 h'r	sm'h		clear.
S. S. Madrid, Constantinople, Turkey†	29.98	761.5	78	25.6	86	calm			0		1		ne.	0	0			fair.
Bk. Mohican, N. 4° 20′ W. 25° 30′	29.81?	757.2?	81	27.2		s.			5		3		ese.	0	0	r'gh	sse.	hazy.
Schr. Norena, N. 35° 37′, W. 67° 55*†	29.90	759.4				sse.			4		5		ssw.	0	0	r'gh	ssw.	fine.
Bk. Orpheus, N. 54° 32′, W. 23° 37′	29.54	759.3	50	10.0		ssw.			9		9		w.	0	0	h'vy	var.	squally.
Schr. Rollin Sanford, Key West, Fla†	29.87	758.7				calm			0		2		sw.	0	0			clear
Bg. Rising Sun, N. 26° 45′, W. 70° 15′†	30.06	763.5	82	27.8		s.			4		5		s.	hv'y	hv'y	long	se.	squally.
Bgt. Sunlight, Demerara, British Guiana*†	29.93	760.2				se.			2		5		e.	0	0			hazy.
Bk. Scud, N. 39° 20′ W. 71° 40′ *†	30.20	767.1	74	23.3		ne.			7		10		ne.	light	light	short	ene.	drizzling.
Bk. Southern Belle, N. 36° 07′, W. 1° 55′ †	29.95	760.7	80	26.7		sw.			2							sm'h		clear.
Bk. Tuck Sing, N. 21° 00′ W. 83° 58′ *†	29.92	760.0				e.			2		0			1 h'r	1 h'r	sm'h		fine.
Schr. Viola Reppard, Brunswick, Ga†	29.97?	761.2?	68	20.0		wnw.			4		8		ene.	0	0			cloudy.
Bgt. Willie, N. 6° 32′ W. 30° 10′ *†	29.94	760.5	83	28.3		s.			5		3		s.	0	0	short	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 22° 15′, W. 40° 21′	30.07	763.8	71.5	21.9	85	ene.			2		5	ene.				2	ne.	misty.
H. M. S. Opal, S. 12° 59′ E. 11° 31′	30.09	764.3	66	18.9	84	ssw.			3		4	ssw.				3	ssw.	d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.27	768.8	47	8.3	77	n.			3		2					3	n.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.27	768.8	44	6.7	84	n.	10	4.5			8		calm	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay *	30.24	768.1	48	8.9	63	nnw.			2		2		n.			sm'h		fair.
S. S. Revelius, Bahia, Brazil*†	30.20	767.1	79	26.1		ene.			4		6		ene.	2 h'r	2 h'r	sm'h		fair.
S. S. Hohenstaufen, S. 29° 26′, W. 48° 26′	30.15	765.8	59	15.0	78	se.			2		5		se.	0	0	light	s.	fair.
Bk. Great Surgeon, S. 27° 26′. W. 29° 34′ *†	30.40	772.1	72	22.2		ne.			4		4		ne.	0	0	long	se.	fair.
S. Gatherer, S. 1° 07′ W. 32° 45′ *	29.82	757.4	80	26.7	70	se.			5		1		se.	0	0	cross	ese.	clear.
Bk. Godeffroy, S. 47° 47′ W. 61° 02′	29.19	741.4	43.3	6.3	80	sw.			6–7		9		sw.	0	0	long	sw.	cloudy
Bkt. Louise Adelaide, S. 20° 00′ W. 36° 45′ †	30.07	763.8	79	26.1		e			4		2		ese.	2 h'r	2 h'r	long	se.	clear.
S. S. Olbers, Rio de Janeiro, Brazil	30.15	765.8	76	24.4	88	calm			0		10					sm'h		foggy.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.91	759.7	63	17.2		nnw.			2–5		9	nnw.						squally.
Bg. John Wesley, S. 25° 20′, W. 40° 19′*†	30.12	765.0	70	24.4		ne.			2		8		nnw.	0	0	cross	var.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.53	750.0	63	17.2	94	se.			4		10	se.				3	se.	misty.
H. M. S. Flying Fish, N. 37° 16′ E. 125° 56′	29.61	752.1	70	24.4	84	nw.			5		0	wnw.				4	nw.	d. clouds.
H. M. S. Magpie, N. 5° 30′ E. 118° 59′	29.92	760.0	79.5	26.4	87	s.			1		9		ssw.					misty.
H. M. S. Mutine, N. 16° 42′ W. 107° 50′	29.88	758.9	82	27.8		sw.			1		6					1	sw.	d. clouds.
H. M. S. Zephyr, N. 41° 36′, E. 138° 32′	29.75	755.6	71	21.7	?	sse.			5		10					2	se.	overcast
H. P. M. S. Tamega, Macao, China	29.59	751.6	82.4	28.0	85	sw.			3		10			20 h'r	20 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	29.99	761.7	74.5	23.6	88	calm			0		10			sli't	sli't			drizzling.
U. S. S. Essex, Roze Island, Corea	29.64	752.8	78	25.6	95	n.			1		7					sm'h		cloudy.
U. S. S. Monocacy, Roze Id, Corea	29.68	753.9	76	24.4	91	nw.			2		7		calm			sm'h		fair.
U. S. S. Palos, Hong Kong, China	29.55	750.6	76	24.4	95	w.			0		10		wnw.					raining.
U. S. S. Pensacola, N. 19° 43°, W. 176° 19′*.	29.97	761.2	81	27.2	74	e.			4		2		e.	0	0	sm'h		fair.
U. S. S. Richmond, Yokohama, Japan	30.00	762.0	77	25.0	91	sw.			1		10			0	0			foggy.
S. S. Coptic, N. 41° 50′, E. 156° 16′	30.25	768.3	68.5	20.3	74	s.			4		6		se.	0	0	mod.	se.	cloudy
S. S. Oceanic, N. 45° 09′, W. 152° 02′	30.21	767.3	61	16.1	94	s.			4		8		se.	0	0	4	var.	foggy.
S. S. Columbia, N. 40° 41′, W. 124° 36′†	30.05	763.3	58	14.4	97	calm			0		0					mod	w.	clear.
S. S. Oregon, San Francisco, Cal†	29.97	761.2	56	13.3	87	nw.			1									clear
S. S. Willamette, Fuca Strait†	30.03	762.7	64	17.8	89	calm			0		10		ssw.	0.09	2.3	0	0	dense fog.
S. S Ancon, N. 36° 42′, W. 122° 10†	30.00	762.0	56	13.3	87	nw.			2		0					light	wnw.	hazy.
S. S. State of California, Portland, Oregon†	30.07	763.8	55	12.8	87	se.			1		10		sse.					cloudy.
S. S. Queen of the Pacific, N. 48° 07′, W. 124° 43′†	30.01	762.2	58	14.4	94	n.			2		0			0	0	long	s.	clear.
S. S. Victoria, Portland, Oregon†	30.10	764.5	57	13.9	81	sse.			2		7		sse.					cloudy.
S. S. City of Pekin, N. 47° 24′, W. 153° 45′†	30.08	764.0	56	13.3	100	sw.			4		10		w.	light	light	mod.	sw.	rainy.
S. S. City of Tokio, N. 28° 29′ E. 122° 55′†	29.68	753.9	80	26.7	87	nne.			9		10		nne.	3 h'r	3 h'r	h'vy	nne.	rainy.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.58	751.3	80	26.7	82	W.			9		10		w.	3.3	83.8	mod.	w.	squally.
S. S. Colima, N. 17° 17′, W. 101° 33†	29.90	759.4	80	26.7	87	wnw.			4		9		wnw.	0	0	mod.	sse.	cloudy.
S. S. Granada, N. 15° 00′, W. 95° 06′ †	29.92	760.0	82	27.8	91	ne.			2		10		ne.	2 h'r	2 h'r	light	sse.	cloudy.
S. S. San Juan, Panama, Panama			78	25.6		nnw.			2		7 ks		n.	3 h'r	3 h'r	gr'd		d. clouds.
S. S. Armenia, N. 24° 20′ W. 123° 25′ *	29.95	760.7	71	21.7	85	nne.			4		9?		nne.	0	0	sm'h	var.	clear.?
S. Saint David, N. 46° 25′, E. 174° 19′*†	30.30	769.6	62	16.7	83	w.			6		10		wnw.	1 h'r	1 h'r	mod.	wnw.	showery
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.92	760.0	79.3	26.3	89	se.			1		7					sm'h		showery.
U. S. S. Hartford, S. 10° 30′, W. 78° 30′ *	29.85	758.2	62	16.7	94	se.			2		10			0	0	sm'h	s;e.	cloudy.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	61	16.1	88	calm			0		10							misty.
U. S. S. Lackawanna, S. 13° 33′ W. 76° 54′ *	29.90	761.0	59	15.0	88	sse.			3		10					mod.	sse.	cloudy.
U. S. S. Onward, Callao, Peru *†	30.12	765.0	59	15.0	88	calm			0		10							misty.
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.6	60	15.6	82	calm			0		10							overcast.
S. S. City of Sydney, Sydney, N S. W*†	30.00	762.0	62	16.7	83	ne.			5		6 n		ne.					fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. Zealandia, Auckland, New Zealand	30.05	763.3	57	13.9	87	sse.	.....	.....	5	.....	0	.....	.....	.....	.....	h'vy	e.	clear.
Bk. Chas. Stewart, Lobos de Afuera Island, Peru	30.11	764.8	66	18.9	.....	se.	.....	.....	2	.....	8	.....	sse.	.....	.....	long	sse.	foggy.
S. David Crocket, S. 29° 31′, W. 117° 33′ *	29.96	761.0	66	18.9	81	ne.	.....	.....	5	.....	9	.....	nw.	2 h'r	2 h'r	sm'h	ne.	overcast.
S. Sovereign of the Seas, S. 38° 25′, W. 85° 15′ *†	30.48	774.2	54	12.2	100	wnw.	.....	.....	4	.....	7	.....	wnw	0	0	sm'h	sw.	foggy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 15° 55′, E. 49° 52′	30.13	765.3	.....	.....	.....	ese.	.....	.....	1	.....	3	ese.	.....	.....	.....	1	sse.	d clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.00	762.0	80	26.7	78	ese.	.....	.....	3	.....	2	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	80	26.7	91	se.	.....	.....	2	.....	3	ese.	.....	.....	.....	3	sse.	d. clouds.
H. M. S. Woodlark, N. 26° 52′, E. 50° 48′	29.80	756.9	90.5	32.5	74	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, Sunda Strait	29.95	760.7	80	26.7	100	sse.	.....	.....	6	.....	10	.....	se.	0	0	r'gh	se.	overcast.
S. S. Galatia, N. 12° 23′, E. 47° 42′†	29.68	753.9	88	31.1	88	nw.	.....	.....	2	.....	4	.....	sw.	0	0	sm'h	.....	light haze.
S. S. Benledi, N. 5° 15′ E. 90° —′ *	29.86	758.4	84.5	27.2	77	wsw.	.....	.....	3–4	.....	4	.....	wsw.	sh'rs	sh'rs	mod.	var.	showery.
Bk. Pilgrim, S. 26° 03′, E. 51° 20′*†	30.20	767.1	.....	.....	.....	s.	.....	.....	3	.....	7	.....	s.	2 h'r	2 h'r	long	se.	cloudy.

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



UNITED STATES OF AMERICA.

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

Signal Office 1883

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 12, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.97	761.3	82.4	28.0	82	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Roziere.
Algiers	.....	.....	30.00	762.0	74.5	23.6	59	nw.	.....	.....	6	.....	10	.....	.....	inap.	inap.	cloudy	Thève.
La Galle	.....	.....	30.00	761.9	93.2	34.0	83	s.	.....	.....	5	.....	2	.....	.....	0.118	3.0	fair	Fonfrède.
Tunis	.....	.....	30.07	763.7	83.1	28.4	54	s.	.....	.....	2	.....	2	.....	.....	0.071	1.8	fair	Delord.
Saida	.....	.....	30.02	762.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pérès.
Tebessa	.....	.....	29.97	761.1	81.7	27.6	26	sw.	.....	.....	6	.....	3	.....	.....	0	0	pretty fair	St. Martin.
Geriville	.....	.....	.....	.....	77.0	25.0	11	n.	.....	.....	5	.....	2	.....	.....	0	0	fair	Forfert.
Laghouat	.....	.....	30.02	762.6	87.8	31.0	31	nw.	.....	.....	3	.....	2	.....	.....	inap.	inap.	fair	Abraham.
Biskra	.....	.....	30.01	762.2	90.3	32.4	27	e.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia	.....	.....	30.13	765.3	50.8	10.4	71	ssw.	18	8.0	.....	.....	10 ks	.....	ssw.	0.148	3.8	showery	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.51	749.5	29.60	751.8	54.0	12.2	87	sw.	11	4.9	.....	.....	10	.....	.....	0.20	5.1	dull	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.52	749.7	30.06	763.4	66.7	19.3	60	e.	.....	.....	2	.....	4	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.35	745.6	30.12	765.0	59.9	15.5	80	ene.	6.3	2.8	.....	.....	5	.....	.....	0	0	.....	Dr. Wierzbiski
Eperies	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Julius Mikolik.
Gratz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Andreas Rospini.
Hermannstadt	28.62	726.9	30.03	762.7	60.3	15.7	79	se.	.....	.....	3	.....	10	.....	.....	0.071	1.8	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	730.1	30.08	763.9	57.9	14.4	85	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	The Staff.
Lemberg	29.19	741.5	30.16	766.1	64.0	17.8	57	se.	.....	.....	5	.....	2	.....	.....	inap.	inap.	.....	Dr. T. Stanecki.
Pola	29.94	760.5	30.05	763.3	73.0	22.8	57	wsw.	.....	.....	2	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.55	750.6	30.00	762.0	69.8	21.0	78	e.	.....	.....	4	.....	6	.....	.....	0.031	0.8	.....	Joseph Midlinszky, S. J
Szegedin	29.76	755.8	30.03	762.8	65.5	18.6	75	w.	.....	.....	1	.....	6	.....	.....	0	0	.....	Karl Stuccel.
Trieste	29.98	761.5	30.08	764.0	70.5	21.4	53	nw.	.....	.....	1	.....	2	.....	.....	0	0	.....	Royal Academy.
Vienna	29.39	746.6	30.10	764.5	61.7	16.5	75	n.	.....	.....	1	.....	10	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.18	766.6	30.27	768.8	55.4	13.0	79	sse.	16	7.2	.....	.....	3	.....	.....	0	0	blue sky	W. Boswell.
Armagh, Observatory	30.02	762.5	30.26	768.6	58.2	14.6	64	ssw.	9	4.0	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.24	768.1	61.1	16.2	77	nw.	11	4.9	.....	.....	0	.....	.....	.....	.....	blue sky	John Hartnup.
Bolton, Sharples	29.69	754.1	30.22	767.6	67.1	19.5	60	ene.	6	2.7	.....	.....	4	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.85	758.2	30.25	768.3	58.2	14.6	79	ne.	.....	.....	1	.....	10	.....	.....	0	0	overcast	McLandsborough & Preston
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	84.0	28.9	71	se.	.....	.....	2	.....	6	.....	.....	.....	.....	gloomy	Corpl. W. I. Cull, A. H.C
Cardington	30.08	764.0	30.18	766.6	66.2	19.0	76	n.	.....	.....	0.6	.....	5	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.98	761.5	30.15	765.8	68.0	20.0	74	ne.	.....	.....	1	.....	3	.....	.....	blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.02	762.5	30.25	768.3	58.7	14.8	68	nw.	.....	.....	4	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	79.0	26.1	55	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. W. Smith.
Galway, Queen's College	30.15	765.8	30.19	766.8	56	13.3	81	s.	.....	.....	3	.....	4	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	30.00	762.0	82.0	27.8	91	sw.	.....	.....	5	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.06	763.5	30.26	768.6	58.0	14.4	57	wsw.	.....	.....	3	.....	3	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.99	761.7	30.16	766.1	66.0	19.2	72	nne.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.89	759.2	30.19	766.8	58.0	14.4	82	n.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.14	765.5	30.17	766.3	64.7	18.2	72	ne.	10	4.5	.....	.....	6	.....	.....	.....	.....	misty	The Staff.
Leicester, Museum	29.95	760.7	30.20	767.1	60.0	15.6	90	nne.	.....	.....	1	.....	8	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	74.8	23.8	76	se.	.....	.....	2	.....	6	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.03	762.7	83.0	28.3	79	s.	.....	.....	1	.....	5	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.70	754.4	30.22	767.6	61.2	16.2	81	n.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.97	761.2	30.20	767.1	58.0	14.4	86	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	30.14	765.5	30.22	767.6	62.8	17.1	72	nne.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.09	764.3	30.19	766.8	56.2	13.4	78	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.90	759.4	79.2	26.2	60	ne.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.96	761.0	30.24	768.1	59.4	15.2	86	nne.	.....	.....	1	.....	5	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	63.8	17.7	58	nw.	.....	.....	1	.....	0	.....	.....	0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.25	768.3	64.5	18.1	64	ne.	5	2.2	.....	.....	5	.....	.....	.....	.....	d. clouds	W. C. Carlisle.
Strathfield Turgiss	.....	.....	.....	.....	61.9	16.6	84	n.	.....	.....	0.5	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.22	767.6	30.30	769.6	64	17.8	67	nw.	.....	.....	6	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.22	767.6	30.24	768.1	59.6	15.3	79	s.	20	8.9	.....	.....	10	.....	.....	.....	.....	gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	80.4	26.9	55	s.	2.5	1.1	.....	2 c	4 k	w.	s.	0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	30.23	767.8	30.27	768.8	49	9.4	93	calm	0	0	.....	0	2 s	.....	.....	0	0	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.24	768.1	30.28	769.1	56	13.3	81	sw.	2	0.9	.....	0	2 s	.....	w.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.22	767.6	30.29	769.4	45	7.2	93	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall, Ontario	30.06	763.5	30.26	768.6	40.6	4.8	95	nw.	.....	.....	1	0	fg	.....	.....	0	0	light fog	Jas. Smith, M. A.
Dalhousie, N. B.	30.19	766.8	30.24	768.1	51.0	10.6	.....	w.	.....	.....	1	.....	.....	.....	.....	0	0	d. clouds	H. A. Johnson.
Edmonton, N. W. T.	27.56	700.0	.....	.....	39	3.9	55	calm	0	0	.....	0	0	.....	.....	0	0	light fog	Alex. Taylor.
Father Point, Quebec*	30.18	766.6	30.21	767.3	54	12.2	77	wnw.	25	11.2	.....	7 k	hz.	w.	.....	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.76	755.9	65	18.3	93	se.	9	4.0	.....	.....	10 n	.....	se.	0.31	7.9	thund'r st'm	James Stewart.
Fredericton, N. B.	30.26	768.6	30.33	770.4	41.1	5.1	98	ne.	2.0	0.9	.....	.....	fg	.....	.....	0	0	dense fog	Prof. Thos. Harrison
Grand Manan, N. B.	30.28	769.1	30.33	770.4	49	9.4	89	se.	4	1.8	.....	10 ck	.....	.....	.....	0	0	hazy	J. Chipman Seeley
Granton, Ontario	29.15	710.4	30.27	768.8	41.0	5.0	91	calm	0	0	.....	1 c	0	e	.....	0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.22	767.6	30.35	770.9	50	10.0	89	calm	0	0	.....	7 c	0	.....	.....	0	0	fair	A. Allison.
Hamilton, Ontario	29.81	757.2	30.21	767.3	47.5	8.7	95	ne.	.....	.....	1	10 cs	.....	ne.	.....	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.93	760.2	30.27	768.8	50	10.0	93	ne.	4	1.8	.....	10 cs	.....	ne.	.....	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.24	768.1	30.28	769.1	61.3	16.3	81	w.	.....	.....	2	2 k	0	w.	.....	0	0	blue sky	C. H. Rigby.
London, Ontario	29.33	745.0	30.26	768.6	39.7	4.3	100	calm	0	0	.....	.....	.....	.....	.....	0	0	d. clouds	E. B. Reed.
Medicine Hat	27.48	698.0	29.72	754.9	50	10.0	74	s.	10	4.5	.....	0	2 s	.....	.....	0	0	blue sky	John Ewart.
Montreal, Quebec*	30.07	763.8	30.28	769.1	48	8.9	93	w.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	C. H. McLeod, C. E.
Ottawa, Ontario	30.04	763.0	30.29	769.4	42.1	5.6	94	s.	.....	.....	.....	0	0	.....	.....	0	0	.....	A. McGill, M. A.
Parry Sound, Ontario*	29.56	750.8	30.27	768.8	45	7.2	65	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	Rev. E. Mosley.
Peterboro, Ontario	29.53	750.0	30.29	769.4	48.7	9.3	85	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.53	750.0	30.23	767.8	47	8.3	100	ne.	9	4.0	.....	.....	fg.	.....	.....	0	0	dense fog	H. Morgan.
Port Stanley, Ontario	29.56	750.8	30.22	767.6	46	7.8	93	ne.	10	4.5	.....	5 ck	0	sw.	.....	0	0	fair	M. Payne.
Que Appelle, N. W. T.	27.54	699.5	29.79	756.7	45	7.2	89	n.	4	1.8	.....	5 cs	0	w.	.....	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.93	760.2	30.29	769.4	46	7.8	93	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.82	757.4	30.29	769.4	42	5.6	89	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.25	768.3	30.30	769.6	46	7.8	92	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	
St. John, N. B	30.19	766.8	30.34	770.6	48.0	8.9	100	s.	1	0.4	.....	0	0	.....	.....	0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	29.97	761.2	30.22	767.6	53	11.7	93	w.	.....	.....	2	0	0	.....	.....	0	0	clear	The Commandant.
Saugeen, Ontario*	29.52	749.8	30.24	768.1	46	7.8	83	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	
Stratford, Ontario	28.96	735.6	30.27	768.8	42.0	5.6	91	se.	1.5	0.7	.....	2 cs	0	nw.	.....	0	0	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F.	.....	.....	30.20	767.1	52.9	11.6	.....	w.	.....	.....	2	.....	.....	.....	.....	0	0	.....	The Commandant.
S. W. Point, Anticosti	30.14	765.5	30.18	766.6	45	7.2	89	calm	0	0	.....	5 ck	0	nw.	.....	0	0	fair	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B	30.23	767.8	30.29	769.4	53	11.7	86	sw.	8	3.6		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.89	759.2	30.28	769.1	49	9.4	71	ne.	7	3.1		5 cs	0	sw.		0	0	fair	Magnetic Observatory.
Woodstock, Ontario	29.15	740.4	30.24	768.1	41.6	5.3	91	n.	3	1.3		4 c	0			0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.27	768.8	30.34	770.6	48	8.9	96	calm	0	0		10 k	hz	n.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	63.6	17.6	80	w.	7.4	3.3		0	3 k			0	0	fine	I. Garfelt.
Springbok Fontein	27.93	709.4			51	10.6	86									0.15	3.8	drizzling	J. T. Eustace.
Chilian.																			
Coquimbo	29.92	760.0	30.00	762.0	53.6	12.0	90	s.			1		10					cloudy	Samuel Redolez.
Iquique	30.01	762.3	30.04	763.0	59.2	15.1	77	n.			3							cloudy	Rafael Moreno.
Niebla	29.78	756.4	29.89	759.1	42.4	5.8	91	e.			4		4		e.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.95	760.6	30.03	762.8	54.9	12.7	80	nw.			1	7 cs		ne.				fair	Manuel Tobar.
Punta Corona	30.20	767.1	30.39	771.9				s.			0	6 ck		w.		0.24	6.	fair	Ignacio Ayala.
Valparaiso	29.93	760.1	30.07	763.7	55.4	13.0	82	n.			1							fair	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.05	636.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.94	760.4	29.96	761.0	67.1	19.5	80	n.	3.8	1.7		cs	3 k	wsw.	nne.	0.008	0.2	fair	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.29	769.3	30.34	770.5	64.0	17.8	78	e.	9	4			0						Oversergent Fischer.
Fanoe	30.27	768.8	30.29	769.3	62.2	16.8	80	e.	9	4			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	28.89	733.7	28.93	734.8	46.4	8.0	76	se.	16	7			10					raining	A. O. Thorlacius.
Thorshavn	29.93	760.3	29.96	760.9	53.6	12.0	95	sw.	18	8			10						Overloerer Bergh.
Vestervig	30.25	768.4	30.34	770.7	62.2	16.8	70	ne.	9	4			8						Loerer Oesterbol.
Egyptian.																			
Cairo	29.76	755.8			83.7	28.7		ne.	6.0	2.7			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.59	751.5	30.24	768.0	60.8	16	61	calm			0		nk		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.70	754.3	30.21	767.3	59.0	15	96	ne.			1		n		sw.	0.087	2.2		M. Nicot, Director.
Avignon, Normal School	29.93	760.2	30.01	762.2	71.6	22	66	n.			2		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.61	752.2	30.17	766.3	55.8	13.2	82	nw.			1		10			0.35	9.	covered	M. Saillard, Director.
Beauvais, Normal School	29.87	758.8	30.14	765.5	64.4	18	72	se.			1		8		se.	0.008	0.2	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.18	741.1	30.04	763.0	61.5	16.4	81	ssw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.91	759.8	30.18	766.5	58.6	14.8	80	w.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.57	751.0	30.11	764.8	62.6	17	72	s.			1				s.	0.04	1.		M. Malet, Director.
Brest, Naval Observatory	30.02	762.6	30.27	768.8	60.8	16.0	69	nnw.			2		4		nnw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.03	762.8	30.11	764.9	63.7	17.6	80	ne.			0.5		5		ne.	0.394	10.0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.79	756.7	30.11	764.7	64.0	17.8	86	calm			0		2			0.169	4.3	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.63	752.7	30.17	766.4	64.8	18.2	63	w.			4		8	w.		0.04	1.	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.78	730.9	30.12	765.0	60.8	16.0	63	ne.			1		8			0.028	0.7		M. Alluard, Director.
Cluny, Normal School	29.30	744.3	30.15	765.7	63.9	17.7	54	n.			4				ne.	0.240	6.1		M. de Villemontée, Dir.
Commercy, Normal School	29.29	744.0	30.14	765.5	61.5	16.4	77	nw.			1		10 kn	nw.	nw.	0.087	2.2	covered	Dr. Coulet, Director.
Gap, Normal School	27.49	698.3	29.99	761.8	59.0	15	80	s.			1		8 n			0.20	5.		M. Jarach, Director.
Gréasque, du Rhone	28.88	733.6	29.98	761.4	68.7	20.4	71	ne.			2		10		e.			light rain	M. Kina, Director.
Grenoble, Normal School	29.29	744.0	30.06	763.4	61.5	16.4	79	nnw.			6		n		nw.	0.08	2.		M. Ablard, Directoor.
Guéret, Normal School	28.57	725.6	30.13	765.4	58.6	14.8	50	sw.			1		5 kn		e.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.89	759.2	30.17	766.2	58.1	14.5	95	nw.			2		10		nw.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.61	752.0	30.24	768.0	60.6	15.9	82	w.			1		10 n			0.031	0.8	raining	M. Chauvin, Director.
Lorient, Naval Observatory	30.13	765.2	30.23	767.8	62.6	17.0	57	nw.			1		10	calm	nw.	0	0	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.05	737.9	30.10	764.6	61.0	16.1	63	n.			2		8 c			0.386	9.8	very cloudy	M. André, Director
Mans, Normal School	29.82	757.5	30.13	765.2	63.1	17.3		wnw.			1		8 n		nw.	0.087	2.2	very cloudy	M. Richard, Director
Marseille, Observatory	29.73	755.1	29.99	761.8	69.3	20.7	77	sw.			1		10		se.	0.067	1.7		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	41.0	5.0	61	n.	11.2	5.0			10			0.244	6.2		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.1	29.95	760.8	76.6	24.8	56	nw.			6		10	sw.		0	0	covered	M. Galzin, Director.
Nantes, Observatory	30.04	762.9	30.20	767.0	59.7	15.4	76	nnw			1–2		10 n		n.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.12	765.0	59.5	15.3	55	nw.	15.0	6.7			10			0.177	4.5		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	539.9			25.2	−3.8		nw.			1		10		nw.	0.039	1.0	foggy	M. Vaussenat, Director.
Privas, Normal School	29.01	736.8	30.06	763.4	64.8	18.2	69	n.			1		5 n	s.	n.	0	0	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.26	641.7			42.1	5.6	100	ene.			2		10			0.579	14.7	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.11	764.8	30.14	765.6	64.8	18.2	80	nnw.			1		10		n.	1.00	25.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.5	30.15	765.9	64.2	17.9	97	nw.			1		8	nw.	nw.	0	0	very cloudy	M. Brotier, Director.
Rodez, Normal School	28.00	711.1	30.17	766.2	50.9	10.5	73	nw.			1		10		e.	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.10	764.4	30.14	765.6	64.8	18.2	90	e.			1		5	ne.		0.075	1.9	cloudy	M. Moutilot, Dir.
Saint Maur, Observatory	29.99	761.7	30.15	765.9	59.5	15.3	79	s.			1		10		sse.	0.004	0.1	covered	M. Renou, Director.
Toulouse, Observatory	29.49	749.1	30.22	767.6	62.8	17.1	60	nw.			2		10	nw.		0	0	raining	M. Bailland, Director.
Tours	29.99	761.8	30.18	766.5	61.9	16.6	85	w.			1		8	wnw.	w.			covered	M. de Tastes.
Versailles, Observatory	29.65	753.1	30.14	765.6	59.7	15.4	83	s.			1		10			0	0		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.08	764.0	30.23	767.8	61.3	16.3	75	nw.	7.8	3.5			8 k	e.	n.	0.008	0.2		M. Cartier, Director.
German.																			
Ansbach	28.67	728.3	30.10	764.4	64.4	18.0	53	ne.			4		6	ne.		0	0		Prof. Jnedt.
Bamberg	29.25	743.0	30.10	764.4	67.6	19.8	64	ne.			1		6 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.05	763.2	30.19	766.8	71.2	21.8	33	e.			3		0			0	0		Dr. Lensch.
Breslau	29.95	753.2	30.19	766.8	66.4	19.1	43	e.			2		7			0.047	1.2		Royal University Obs'y.
Carlsruhe	29.67	753.5	30.12	765.0	64.4	18.0	63	ne.			1		9	sw.		0	0		Albert Senz.
Cassel	29.45	748.0	30.17	766.2	65.5	18.6	67	e.			1		8	ne.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.5	30.10	764.6	67.6	19.8	54	se.			1		6			0	0		Physical Society.
Friedrichshafen	28.69	728.6	30.08	763.9	64.0	17.8	71	n.			1		8	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.14	765.5	30.23	767.8	68.4	20.2	65	ese.			3		4			0	0		E. Preller.
Kiel	30.24	768.1	30.26	768.5	64.4	18.0	73	ese.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.72	755.0	30.14	765.5	67.3	19.6	61	ese.			2		6	e.		0.016	0.4		H. Leppig, Asst.
Magdeburg	29.96	760.9	30.14	765.6	73.0	22.8	41	e.			2		2	e.		0.035	0.9		Weather Observatory.
Memel	30.39	771.8	30.43	773.0	73.6	23.1	39	ese.			2		0					clear	Issermann.
Munich	28.25	717.6	30.12	765.0	62.8	17.1	56	ne.			2		3	w.		0	0		Central Station.
Neufahrwasser	30.34	770.7	30.36	771.1	64.2	17.9	75	e.			2		0			0	0		A. Lothes.
Neustadt, Palatinate	29.55	750.6	30.08	764.0	67.6	19.8	53	calm			0		10			0	0		Dicknether.
Stuttgart	29.13	740.0	30.00	762.1	68.0	20.0	43	ne.			1		7	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.22	767.5	30.24	768.1	68.0	20.0	55	ese.			4		1 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.57	751.1	29.95	760.6	79.7	26.5		ne.			3.0		4 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.61	752.0	29.66	753.2	83.7	28.7	71	sw.	28.0	12.5			6	e.	wnw.	0	0	d. clouds	
Deesa	29.20	741.7	29.69	754.1	81.9	27.7	76	sw.	3.0	1.3			9			0.37	9.4	d. clouds	
Bombay	29.77	756.2	29.81	757.2	79.2	26.2	85	w.	8.0	3.6			10		wsw.	0.40	10.2	overcast	
Poona, Yarrowda	27.96	710.3	29.83	757.7	75.3	24.1	68	w.	20.0	8.9			2			0.05	1.3	d. clouds	
Trichinopoly	29.56	750.8	29.84	757.8	92.5	33.6	43	nw.	0.4	0.2			8			0	0	d. clouds	
Bellary	28.32	719.4	29.80	756.8	77.5	25.3	82	w.	8.0	3.6			10			0.11	2.8	gloomy	
Belgaum	27.30	693.5	29.86	758.5	71.0	21.7	87	w.	7.0	3.1			10	s.	w.	0.06	1.5	d. clouds	
Lahore	28.82	732.0	29.54	750.2	92.1	33.4	59	calm	0	0			0			0	0	blue sky	
Roorkee	28.70	728.9	29.58	751.4	83.8	28.8	84	calm	0	0			7	e.		0	0		
Agra	29.06	738.1	29.62	752.3	82.2	27.9	83	ne.					10			1.68	42.7	thund'r st'm	
Nagpur	28.65	727.8	29.69	754.2	78.3	25.7	83	wsw.	13.0	5.8			9		w.	0.03	0.8	gloomy	
Jubbulpore	28.32	719.9	29.67	753.6	79.3	26.3	85	w.	8.0	3.6			6		sw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.23	742.5	29.60	751.8	88.1	31.2	59	calm	0	0			10	sse.		0	0		
Allahabad	29.27	743.4	29.58	751.3	84.2	29.0	85	ne.	1.0	0.4			10			0.17	4.3	overcast	
Patna	29.44	747.8	29.62	752.5	79.6	26.4	91	se.	3.2	1.4			10	se.	se.	0.34	8.6	overcast	
Hazaribagh	27.63	701.8	29.62	752.5	78.5	25.8	87	calm	3.3	1.5			10			0	0	overcast	
Cuttack	29.57	751.0	29.65	753.0	84.2	29.0	78	ssw.	2.0	0.9			4			0	0	d. clouds	
Calcutta, Alipore	29.61	752 1	29.63	752.6	83.7	28.7	83	sw.	2.0	0.9			7		e.	0.36	9.1	d. clouds	
Dhubri	29.53	750.1	29.65	753.0	84.4	29.1	82	calm	0	0			2			0	0	d. clouds	
Chittagong	29.61	752.1	29.70	754.4	81.2	27.3	88	sw.	5.6	2.5			7		sw.	0	0	d. clouds	
Sibsagar	29.32	744.6	29.65	753.0	84.9	29.4	82	ne.	2.0	0.9			5	e.	e.	0	0	d. clouds	
Jeypore	28.19	716.0	29.60	751.9	87.4	30.8	64	wnw.	5.6	2.5			10	e.	w.	0.07	1.8	overcast	
Zanzibar	30.02	762.5			82.9	28.3	61	se.	3.6	1.6			4		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.65	753.2	30.05	763.3	70.5	21.4	42	sw.	0.7	0.3			1			0	0		Prof. Giovanni Clodig.
Milan	29.56	750.8	30.07	763.7	72.9	22.7	40	ssw.	3.1	1.4			9	nne.		0	0		Prof. G.V.Schiapparelli
Padua	29.91	759.8	30.02	762.5	71.2	21.8	50	s.	1.3	0.6			5	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.3	30.04	762.9	64.2	17.9	78	nw.	1.8	0.8			9	nw		0.039	1.0		Prof. F. F. Denza.
Genoa	29.84	757.9	30.02	762.6	73.8	23.2	59	sw.	3.1	1.4			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.18	715.7	30.06	763.5	62.8	17.1	74	nw.			6		10			0	0		Prof. D. C. Bruno.
Pesaro	30.00	762.1	30.05	763.3	70.9	21.6	51	ne.	13.6	6.1			7			0	0		Prof. Luigi Guidi.
Florence	29.76	755.8	30.01	762.2	76.1	24.5	36	se.			2		9			0	0		Prof. Costantino Pittei.
Leghorn	29.85	758.3	29.94	760.4	75.0	23.9	59	e.	2.5	1.1			6			0	0		Prof. P. Monte.
Rome	29.83	757.6	30.00	761.9	78.1	25.6	45	s.	1.3	0.6			7			0	0		Prof. P. Tacchini.
Lecce	29.78	756.5	30.04	762.9	72.5	22.5	47	nne.	9.4	4.2			2	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.2	30.01	762.2	77.4	25.2	62	wnw.	2.5	1.1			3	w.		0	0		Prof. D. Conti.
Cagliari	29.73	755.1	29.92	759.9	78.3	25.7	64	se.			4		7	sw.		0	0		Prof. A. Pacinotti.
Palermo	29.76	755.8	30 00	762.0	75.0	23.9	61	ne.	5.6	2.5			7	wsw.		0	0		Prof. G. Caccintore.
Syracuse	29.95	760.6	29.99	761.7	78.1	25.6	68	e.	3.8	1.7			5	e.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.49	749.1	30.00	762 0	75.6	24.2	56	sw.	0.7	0.3			2	nnw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.55	750.6	29.59	751.6	81.0	27.2	93	se.			4	4 ck	6 k	sw.	sw.	0	0	cloudy	H. Hattori.
Awomori	29.49	749.0	29.52	749.8	81.4	27.4	64	wsw.	1.6	0.7		7cs;ck	0	sw.		0	0	fair	K. Ogawa.
Hamamatsu	29.72	754.9	29.75	755.6	78.3	25.7	92	ese.			6	6 ck	3 s	s.	s.	0.957	24.3	cloudy	Sekigawa & Yamazaki.
Kagoshima	29.52	749.8	29.53	750.1	77.4	25.2	71	nw.			6		10 s			0	0	overcast	G. Miyanonaga.
Kanazawa	29.44	747.9	29.54	750.3	79.0	26.1	71	e.	5.4	2.4		2 ck	6 ck		se.	1.357	34.5	cloudy	S. Endo.
Kioto	29.39	746.6	29.57	751.0	80.6	27.0	69	e.	7.9	3.5		8 cs	0			1.443	36.6	cloudy	M. Tojima.
Kochi	29.32	744.8	29.34	745 3	75.3	24.1	94	nne.	19.6	8.7			10 n			3.01	76.5	raining	K. Kusunose.
Miasaka	29.35	745.5	29.38	746.2	77.0	25.0	89	wnw.			4	0	8s;ks		nnw.	0.413	10.5	cloudy	K. Masasaki.
Miyako	29.59	751 5	29.70	754.3	77.5	25.3	77	ssw.	6.7	2.9		3 ck	0	sw.		0	0	fair	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.40	746 7	29.59	751.6	76.1	24.5	77	n.	10.2	4.6			9 s		n.	0.010	0.2	cloudy	S. Takehayasu.
Niigata	29.55	750.0	29.59	751.6	82.6	28.1	63	se.	16.1	7.1		0	1ks;s				0	clear	Satoo & Tomikawa.
Nobiru	29.69	754.2	29.71	754.6	76.4	24.7	91	s.	44.4	19.8		0	4 ck		s.	0	0	fair	Yoslino & Midzushina.
Numazu	29.75	755.6	29.79	756.6	77.0	25.0	88	ne.			2		10ks;s		s.	0.075	1.9	cloudy	R. Kaneda.
Osaka	29.53	750.0	29.54	750.4	81.2	27.3	61	e.	11.7	5.2			10s;ks		se.	1.395	35.4	cloudy	H. Omura.
Sakai	29.54	750.4	29.55	750.6	73.0	22.8	91	e.			2		10 n		wsw.	0.917	23.3	raining	Yamawchi&Sakamoto.
Shimonoseki	29.37	746.1	29.52	749.8	73.9	23.3	85	nnw.			6	0	8ck;ks		n.	0.098	2.5	cloudy	S. Sakaro.
Tokei Obs'y, Yeddo	29.71	754.6	29.78	756 4	78.2	25.7	88	s.	22.6	10.1		0	2ks;ck		ssw.	0.030	0.8	clear	The Staff.
Wakayama	29.43	747.5	29.48	748.8	84.9	29.4	50	s;sse.	13.7	6.1		2 ck	7 ck;n	s.	s.	3.263	82.9	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	72.7	22.6	62	se.	20.0	8.9		0	2 k		s.	0	0	clear	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.03	762.7	55.9	13.3	92	nnw.	0.9	0.4		4 c	4ck;s		e.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.04	752.8	29.89	759.3	80.0	26.7	78	e.	0.9	0.4		7 cs	0	sw.		0	0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata					84	28.9	82	se.			1		9 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.15	765.8	30.15	765.8	68.0	20.0		ene.			4					0.079	2.0		
Groningen	30.15	765.8	30.21	767.2	61.0	16.1		ene.			1					0	0		
Helder	30.19	766.7	30.19	766.7	61.7	16.5		e.			2					0	0		
Hellevoetsluis	30.15	765.8	30.15	765.8	66.7	19.3	61	ene.			1					0	0		
Utrecht	30.13	765 3	30.18	766.5	65.7	18.7	66	ene.			2		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	759.9			80.2	26.8	75	nne.	0.5	0.2			9			0	0		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.29	769.3	30.35	770.9	62.6	17.0	63	ssw.	11.2	5.0			3			0	0		
Brono	30.30	769.7	30.34	770.7	66.2	19.0	54	calm			0		3			0	0		
Christiania	30.26	766.0	30.41	772.2	58.3	14.6	72	wnw.	0	0			2			0	0		
Gjæsvær	30.20	767.1	30.22	767.7	50.9	10.5		wsw.			7		10						
Lodingen	30.27	768.9	30.32	770.1	54.1	12.3	87	wsw.			6		9			0.110	2.8		
PORTUGUESE.																			
Angra, Azores					73.0	22.8	81	se.	4.9	2.2			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.03	762.8	30.12	765.0	82.4	28.0	47	ese.	6.3	2.8			2	ne.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.5	30.11	764.8	73.8	23.2	44	n.	7.4	3.3			2			0	0		The Staff.
Ponta Delgada, Azores	30.12	765.0	30.19	766.8	76.3	24.6	71	calm	0	0			4			0	0		
Saint Paul de Loando	29.77	756.1	29.97	761.3	72.7	22.6	91	wnw.			2		1	s.		0	0		
San Salvador, Congo	28.11	714.1	29.94	760.4	81.1	27.3	53	w.			2		4						
Serra da Estrella	25.44	646 2	30.08	764.1	59.5	15.3	43	nw.	1.3	0.6			9			0	0		
RUSSIAN.																			
Akmolinski	29.86	728.7	29.73	755.1	64.6	18.1	33	n.	2	1		0	7 k			0	0		Major K. Lasarew.
Archangel	30.37	771.3	30.39	771.8	62.1	16.7	94	s.	4	2			9 ks			0	0		Capt. Sseliwerstow
Ashuruda	30.32	770.0	30 22	767.0	75.4	24.1	54	e.	2	1			9 ks			0	0		
Astrakhan	30.33	770.3	30.20	768.5	75.9	24.4	30	nne.	7	3		0	0			0	0		Capt. Wisganow.
Baku	30.32	770.2	30.28	769.0	75.7	24.3	39	ese.	4	2		0	2ks;s			0	0		
Barnaul	29.29	744.0	29.78	756.3	62.2	16.8	50	w.	4	2			3			0	0	light clouds	Meteorological Obs'y
Bielosersk	30.02	762.6	30.48	774.2	70.7	21.5	56	calm	0	0		0	1 k			0	0		
Dorpat	30.28	769.2	30.52	775.3	70.9	21.6	41	sw.	4	2		0	0			0	0		Observatory.
Ekaterinburg	29.21	742.0	30.19	766.9	40.9	8.3	78	n.	9	4			10 n			0.004	0.1		Meteorological Obs'y.
Elissawetgrad	29.81	757.2	30.25	768.3	76.1	24.5	15	ese.	22	10		2 c	0			0	0		
Irkutsk	28 19	715.9	29.80	756.8	54.9	12.7	57	ne.			2		8			0	0		
Kasalinsk					68.5	20.3	35	wsw.	9	4		0	4 ks;n						
Kasan	30.13	765.2	30.40	772.1	56.1	13.4	56	nne.	16	7		0	1 k			0.004	0.1		Observatory.
Kem	30.28	769.2	30.34	770.5	70.3	21.3	67	sw.	4	2		7 c	0			0	0		
Kertch	30.04	762.9	30.06	763.5	71.1	21.7	62	e.	4	2		0	1 k			0	0		Lagorio & Sastyrea.
Kieff	29.67	753.0	30.29	769.3	71 8	22.1	21	e.	13	6		ck	7 k;ks			0	0	light clouds	Observatory.
Koslov	29.87	758.0	30.35	771.0	74.8	23.8	41	nne.	4	2		0	0			0	0		
Liban	30.43	772.8	30.45	773.4	70.9	21.6	36	se.			2		0			0	0		E. Quaas.
Lugan	30.00	763.4	30.25	768.4	77.4	25.2	20	ene.	22	10			0			0	0		Meteorological Obs'y.
Moscow	30.00	761.9	30.40	773.6	71.2	21.8	45	calm	0	0		0	1 k			0	0		Meteorological Obs'y
Nikolaiev	30.06	763.5	30.13	765.3	75.2	24.0	42	ene.	13	6		0	8 cn			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					51.3	10.7	91	w.	4	2			10 n						Iwanow.
Pekin, China	29.75	755.7	29.89	759.3	66.0	18.9	57	sw.	5.6	2.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.77	756.2	30.11	764.9	71.1	21.7	28	nw.	10.1	4.5		0	5 k			0	0		
Petrozavodsk	30.23	767.9	30.42	772.7	72.3	22.4	42	nw.	16	7		0	3 ks			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.86	758.5	30.35	770.9	70.0	21.1	34	ese.	13	6			9 ks			0	0	light clouds	
Poti	29.94	760.4	29.97	761.2	79.7	26.5	46	e.	13	6		0	0			0.232	5.9		
St. Petersburg	30.49	774.5	30.52	775.1	71.4	21.9	36	w.	7	3		0	0			0	0		Central Physical Obs'y.
Samarkand	27.63	701.8	30.05	763.3	64.9	18.3	50	calm	0	0		0	8 n			0	0		
Semipalatinsk	29.16	740.6	29.80	756.8	64.2	17.9	36	calm	0	0			2			0	0		Major Lasarew
Sevastopol	29.51	757.2	30.02	762.4	77.0	25.0	62	nw.	16	7		0	2 ks			0	0		
Staroi Bykhov	29.85	758.3	30.39	771.8	77.7	25.4	67	ese.	11	5		0	1 k			0	0	light clouds	
Tashkend Laboratory	28.38	720.9	30.03	762.8	62.2	16.8	45	calm	0	0			10 n			0	0		Torch, A. M
Tiflis	28.91	734.3	30.33	770.4	60.4	15.8	67	e.	2	1			10			0.118	3.0		Physical Observatory.
Vernoe	27.46	697.5	29.94	760.5	55.8	13.2	72	ne.	11	5			10 n			0	0		
Viatka	29.80	756.9	30.43	772.9	56.1	13.4	69	n.	2	1			3			0	0		
Warsaw	29.86	758.4	30.28	769.0	68.5	20.3	36	ese.	18	8		8 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.67	753.6	29.96	760.9	47.7	8.7	85	nw.	4	2			9			0.031	0.8	raining	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.90	759.4	30.00	762.0	68.4	20.2	73	e.	10.7	4.8			9			0.862	21.9		Antonio Molins.
Bilbao, Met. Obs'y	30.20	767.1	30.27	768.9	66.6	19.2	58	n.	1.8	0.8			10			0.028	0.7	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.24	691.8	30.16	766.1	59.0	15.0	55	ne.	5.6	2.5			3			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.5	30.08	763.9	68.4	20.2	32	n.	6.0	2.7			9			0	0	almost cov.	The Staff.
Murcia, Met. Obs'y	29.84	757.9	29.95	760.8	76.5	24.7	66	ene.	4.0	1.8		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.51	749.6	30.27	768.9	57.2	14.9	80	nw	7.4	3.3		10 n	6 n	w.	w.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.7	30.17	766.2	65.8	18.8	54	nne.	15.4	6.9			2			0	0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.6	30.01	762.3	75.7	24.3	90	sse.	0.4	0.2		c cs	k	n.		0.05	1.2	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	758.9	29.94	760.4	82.0	27.8	85	sw.	15.4	6.9		0	1 ks		e.	0.020	0.5	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.6	30.08	764.0	72.9	22.7	65	w.	11.7	5.3		3	2	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.93	760.2	30.02	762.5	82.4	28.0	78	e.	7.2	3.2		5 k	4 kn	e.	e.	0.244	6.2	raining	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.31	769.9	30.35	770.9	57.2	14.0	96	sw.			2		10			0.094	2.4		
Umea	30.36	771.2	30.41	772.5	60.4	15.8	87	ssw.			2		10			0	0		
Hernosand	30.22	767.5	30.27	768.8	66.6	19.2	72	calm			0		5			0.016	0.4		
Stockholm	30.27	768.8	30.45	773.3	63.3	17.4	74	calm			0		1			0	0		
Wisby	30.30	769.7	30.36	771.2	65.1	18.4	77	ne.			4		0			0	0		
Sub-series.																			
Upsala	30.33	770.4	30.42	772.6	66.7	19.3	74	s	8.7	3.9			4		s.	0.004	0.1		H.H.Hildebrandesson.
Swiss.																			
Geneva	28.65	727.8	30.05	763.3	65.3	18.5	73	n.			2		9			0.449	11.4	covered	The Observatory.
Turkish.																			
Constantinople			29.96	761.0	77.0	25.0	60	n.	12	5.5			5		ne.	0	0		The Observatory.
Valona			30.14?	765.6?	72.0	22.2		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	759.0	82.9	28.3	59	nw.			2		1 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.20	767.1	30.28	769.1	53.5	11.9	69	n.	3	1.3			10s;hz		sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.57	751.1	30.22	767.6	48	8.9	93	sw.	2	0.9		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.02	635.5	29.82	757.4	50	10.0	54	se.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.03	680.5	29.88	758.9	54	12.2	86	w.	4	1.8		0	3 s		w.	inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	28.83	732.3	30.00	762.0	63.5	17.5	75	n.	2	0.9		0	fg.			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.04	763.0	30.05	763.3	64	17.8	100	ne.	17	7.6			10 n			3.85	97.8	light rain	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	68.0	20.0	84	calm	0	0		1 k	0			inap.	inap.	clear	D. J. Young.
Baltimore, Maryland	30.00	762.0	30.05	763.3	59	15.0	87	ne.	14	6.3			10 s		ne.	0.16	4.1	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.05	763.3	30.07	763.8	62.0	16.7	100	ne.	37	16.5			10 n		ne.	2.46	62.5	heavy rain	G. A. Hill.
Behring Id., Behring Sea	29.71	754.6	29.73	755.1	48.0	8.9	98	sw.	18	8.0			fg.			0.2?	5.?	light rain	Geo. Cherrick.
Bennett, Fort, Dakota	28.19	716.0	29.78	756.4	68.0	20.0	66	e.	2	0.9		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	29.92	760.0	54	12.2	93	calm	0	0		2 ck	4 s			0	0	fair	Thomas Morgan.
Bismarck, Dakota	27.89	708.4	29.69	754.1	64	17.8	70	se.	5	2.2		1 cs	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.18	766.6	30.21	767.3	57	13.9	100	ne.	32	14.3			10 n		ne.	0.34	8.6	light rain	J. T. Eiker.
Boise City, Idaho	27.17	690.1	29.94	760.5	43	6.1		n.	1	0.4			10 s			0.09	2.3	cloudy	J. Kenealy.
Boston, Massachusetts	30.13	765.3	30.28	769.1	55.0	12.8	86	ne.	7	3.1			10 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.96	761.0	72.0	22.2	97	n.	2	0.9		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.47	748.3	30.20	767.1	50	10.0	72	ne.	4	1.8		5 cs	sk	sw.		0	0	fair	Wm. Finn.
Buford, Fort, Dakota	27.80	706.1	29.78	756.4	63.7	17.6	54	nw.	4	1.8			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.71	754.0	30.11	764.8	57.6	14.2	71	ne.	6	2.7		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.88	758.9	30.08	764.0	57.7	14.3	96	w.	4	1.8			10 s			0	0	cloudy	O. D. Stewart.
Cape Henry, Virginia	29.81	757.2	29.83	757.7	70.5	21.4	100	e.	26	11.6			10 n		se.	2.02	51.3	light rain	A. K. Alderson.
Cape May, New Jersey	29.97	761.2	30.00	762.0	67.0	19.4	93	ne.	22	9.8			10 n		ne.	2.66	67.6	light rain	W. E. Smith.
Cape Mendocino, California	29.33	745.0	30.01	762.2	56	13.3	93	nw.			2		fg.		nw.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	70.5	24.7	84	w.	2	0.9		1 c	1 k	w.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	66.0	18.9	68	w.	5	2.2		0	0			0.06	1.5	clear	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.92	760.0	64.0	17.8	90	n.	8	3.6			10 s		n.	0.38	9.7	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.23	742.4	30.04	763.0	65.0	18.3	60	n.	2	0.9		0	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.89	759.2	51.2	10.7	52	nw.	6	2.7		0	0			inap.	inap.	clear	E. Medovern.
Chicago, Illinois	29.47	748.5	30.16	766.1	57.0	13.9	74	calm	0	0		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	70	21.1	100	e.	8	3.6			9n;fg		s.	1.84	46.7	light rain	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.11	764.8	57.0	13.9	64	ne.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.16	766.1	49.7	9.8	71	se.	5	2.2		8c;cs	fg.	sw.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.27	743.4	30.11	764.8	51	10.6	80	n.	3	1.3		9 cs	0	sw.		0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	30.00	762.0	61.2	16.2	93	s.	2	0.9		0	hz.			0	0	clear	J. McGlone.
Custer, Fort, M. T.	26.71	678.4	29.83	757.7	57	13.9	64	w.	4	1.8		3 c	0	w.		0	0	clear	T. Gibson.
Davenport, Iowa	29.48	748.8	30.13	765.3	53	11.7	80	e.	4	1.8		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.18	639.6	29.88	758.9	62	16.7	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.26	717.8	30.01	762.2	54.5	12.5	67	sw.	8	3.6		7 k	0	sw.		0	0	fair	D. Moore.
Deadwood, Dakota	25.21	640.3	29.77	756.1	64	17.8	65	s.	6	2.7			10 s		s.	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del	29.96	761.0	29.98	761.5	66	18.9	100	ne.	34	15.2			10 s		ne.	0.72	18.3	cloudy	T. S. Townsend.
Denver, Colorado	24.71	627.6	29.82	757.4	58.5	14.7	58	sw.	4	1.8		0	5 s			0.03	0.8	fair	F. M. Neal.
Des Moines, Iowa	29.23	742.4	30.12	765.0	56	13.3	69	s.	1	0.4		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.51	749.5	30.21	767.3	50.0	10.0	86	ne.	10	4.5		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.42	696.5	29.97	761.2	63	17.2	90	se.	4	1.8			10 n		s.	inap.	inap.	light rain	J. H. Bryce.
Dubuque, Iowa	29.47	748.5	30.17	766.3	48.5	9.2	89	se.	1	0.4			fg			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.04	763.0	61	16.1	72	calm	0	0		0	hz.			0	0	clear	N. B. Conger.
Eastport, Maine	30.25	768.3	30.32	770.1	50.0	10.0	77	calm	0	0		sk.	fg;sk			0	0	dense smoke	D. C. Murray.
Elliott, Fort, Texas	27.28	692.9	29.97	761.2	60	15.6	78	calm	0	0		10 k	0			1.16	29.5	cloudy	J. C. Rickli.
El Paso, Texas	26.27	667.2	29.92	760.0	69.0	20.6	57	calm	0	0		0	2 s		e.	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.48	748.8	30.19	766.8	50	10.0	77	e.	4	1.8		5 c	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.52	749.8	30.18	766.6	50.0	10.0	90	calm	0	0		0	fg.			0	0	clear	George Heathcote.
Galveston, Texas	29.95	760.7	29.99	761.7	76	24.4	85	ne.	9	4.0		3 cs	hz.	sw.		0	0	clear	E. O'C. Macinernay.
Grand Haven, Michigan	29.54	750.3	30.20	767.1	49.0	9.4	86	ne.	3	1.3		c	0			0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.21	640.3	29.81	757.2	63.7	17.6	39	ne.	5	2.2		1 c	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.83	757.7	29.85	758.2	73.0	22.8	84	sw.	28	12.5		0	9 s		sw.	2.12	53.8	cloudy	R. M. Crawford.
Helena, Montana	25.73	653.5	29.90	759.4	56	13.3	69	sw.	4	1.8			10 n		sw.	blank	blank	light rain	F. H. Jones.

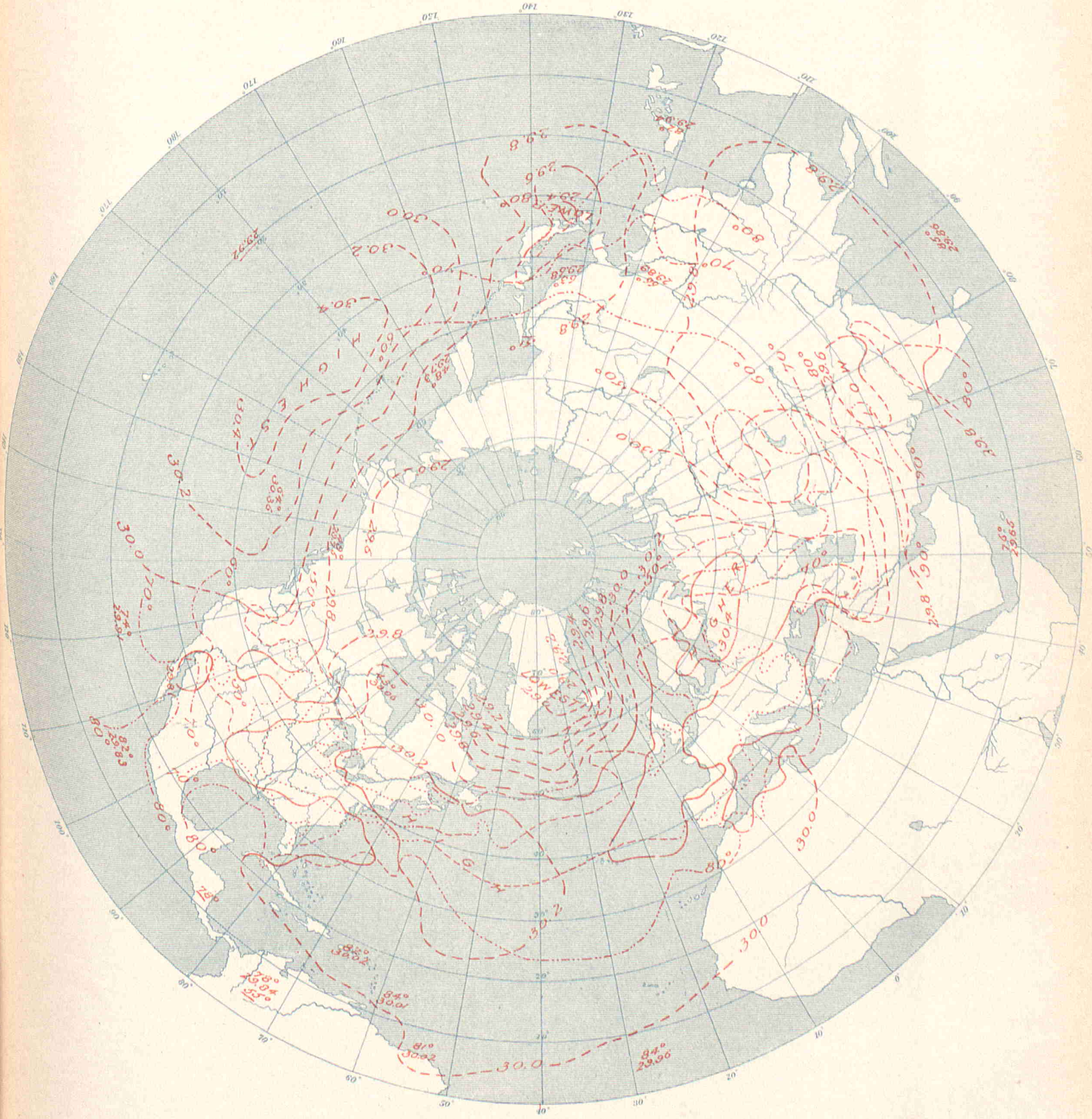
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.51	724.1	29.89	759.2	60.9	16.1	83	se.	13	5.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.34	745.2	30.12	765.0	48.3	9.1	77	ne.	3	1.3		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.97	761.2	76.0	24.4	90	n	12	5.4			10 s			0	0	cloudy	I. A. Reed.
Jacksonville Florida	29.94	760.5	29.98	761.5	71.0	21.7	79	w.	2	0.9		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.49	749.0	30.14	765.5	54.0	12.2	74	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.96	761 0	29.98	761.5	80.0	26.7	82	calm	0	0		3 cs	5 ks		sw.	0.04	1.0	cloudy	A. W. Browne.
Kittyhawk, North Carolina	29.84	757.9	29.86	758.4	71	21.7	90	sw.	22	9.8			10 s		s.	1.22	31.0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.00	736.6	30.02	762.5	60.5	15.8	66	ne.	1	0.4		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.13	765.3	54	12.2	74	s.	5	2.2		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.22	742.2	30.10	764.5	50	10.0	77	calm	0	0		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.14	740.1	29.97	761.2	50.0	10.0	72	ne.	1	0.4		0	5 ks		ne.	0	0	fair	O. E. Butler.
Little Rock, Arkansas	29.74	755.4	30.05	763.3	58	14.4	80	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.54	750.3	29.93	760.2	58.5	14.7	96	w.	3	1.3			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.06	763.5	53	11.7	66	n.	8	3.6		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.20	741.7	29.88	758.9	59	15.0	93	ne.	7	3.1			10 n		ne.	1.77	45.0	light rain	Louis Duane.
Mackinaw City, Michigan	29.56	750.8	30.21	767.3	53.0	11.7	86	s.	1	0.4		0	hz.			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.83	757.7	29.84	757.9	69.0	20.6	90	sw.	35	15.6			10 s		sw.	0.75	19.0	cloudy	William Daly.
Maginnis, Fort, Montana	25.46	646.7	29.86	758.4	48	8.9	46	nw.	2	0.9		7 k	0			0	0	fair	F. Burke.
Marquette, Michigan	29.41	747.0	30.13	765.3	61.0	16.1	60	sw.	20	8.9		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.04	763.0	59	15.0	87	nw.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.45	748.0	30.19	766.8	49	9.4	86	se.	3	1.3		0	sk.			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.92	760.0	29.96	761.0	75.3	24.1	92	n.	1	0.4		2 ck	hz.			0	0	light haze	H. U. Jones.
Montgomery, Alabama	29.76	755.9	29.99	761.7	64.5	18.1	68	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.82	732.0	29.81	757.2	59	15.0	70	s.	11	4.9		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	24.11	612.4	30.26	768.6	43.3	6.3	59	w.	2	0.9		10 c	0			0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.46	748.3	30.03	762.7	54.0	12.2	80	nw.	3	1.3		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.21	767.3	52	11.1	96	ne.	13	5.8			10 n		ne.	0.31	7.9	light rain	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	55	12.8	100	ne.	5	2.2			10 n		ne.	0.24	6.1	light rain	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	76.0	24.4	69	n.	1	0.4		0	0			0	0	clear	M. Herman.
New York, New York	29.98	761.5	30.15	765.8	56	13.3	93	ne.	15	6.7			10n;fg			0.32	8.1	light rain	H. J. Penrod.
Norfolk, Virginia	29.77	756.1	29.80	756.9	71.0	21.7	94	se.	11	4.9			10 n			1.50	38.1	light rain	Wm. Davis.
North Platte, Nebraska	27.04	686.8	29.92	760.0	62.6	17.0	86	e.	6	2.7		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	55.0	12.8	93	sw.	6	2.7			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.09	764.3	57.5	14.2	76	calm	0	0		0	0			0	0	clear	A. Pollak.
Oogiaamie, Alaska																			P. H. Ray.
Oswego, New York	29.93	760.2	30.25	768.3	48.0	8.9	77	se.	2	0.9		7 c	hz.	w.		0	0	fair	J. G. Lindley.
Palestine, Texas	29.50	749.3	30.00	763.5	65.0	18.3	93	ne.	4	1.8		0	hz.			0	0	dense haze	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.98	761.5	71.4	21.9	84	n.	5	2.2		4 cs	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	30.01	762.2	30.11	764.8	56.5	13.6	100	ne.	20	8.9			10s;fg		ne	0.27	6.9	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.95	455.9	29.93	760.2	28	— 2.2	67	n.	24	10.7		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.32	744.7	30.11	764.8	57.6	14.2	90	calm	0	0		9 cs	0	w.		0	0	cloudy	G. C. Schaeffer.
Poplar River, Montana					55	12.8	69	ne.			1		10 s			0	0	cloudy	M. J. Wright, jr.
Port Huron, Michigan	29.52	749.8	30.19	766.8	52.7	11.5	86	ne.	2	0.9		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.26	768.6	30.30	769.6	51.0	10.6	80	nw.	2	0.9		10 cs	fg.			0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	57.0	13.9	86	nw.	2	0.9			10 s		sw.	0.01	0.3	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.82	757.4	46	7.8	58	sw.	2	0.9		2 ck	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.23	767.8	30.26	768.6	58	14.4	80	e.	8	3.6			10 s			0.13	3.3	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.59	751.6	29.94	760.5	61	16.1	56	n.	1	0.4			hz.			0	0	clear	J. R. Williams.
Rochester, New York												0							E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.12	765.0	51.5	10.8	86	s.	1	0.4			10 s		sw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.84	757.9	29.92	760.0	59.0	15.0	75	se.	5	2.2			0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.54	750.3	30.12	765.0	55.0	12.8	77	ne.	4	1.8		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.50	750.8	29.60	751.8	42	5.6	96	nw.	25	11.2		0	10 n			0.66	16.8	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.21	741 9	30.06	763.5	54.0	12.2	80	s.	6	2.7			hz.			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	28.87	733.3	29.74	755.4	64.5	18.1	91	se.	8	3.6		0	hz.			0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.50	647.7	29.70	755.9	62	16.7	43	calm	0	0		5 cs	0			inap.	inap.	clear	J. Craig.
San Antonio, Texas												0							J. H. Davis.
San Diego, California	29.83	757.7	29.90	759.4	63.0	17.2	84	e.	5	2.2			10 s			0	0	cloudy	F. R. Day.
Sanford, Florida	29.92	760.0	29.96	761.0	69	20.6	84	w.	2	0.9			fg.			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.50	749.3	30.17	766.3	50.5	13.6	80	se.	1	0.4		0	0	se.		0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.11	764.8	30.14	765.5	58.0	14.4	63	ne.	27	12.1		3 c	10 n		ne.	0.36	9.1	light rain	B. A. Blundon.
San Francisco, California	29.90	759.4	29.96	761.0	54.5	12.5	93	sw.	6	2.7		0	fg.		s.	0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	73	22.8	71	sw.	6	2.7		0	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.26	667.0	29.87	758.7	47	8.3	86	w.	1	0.4		7 k	0	w.		0.03	0.8	fair	S. W. Morrison.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	61.0	16.1	78	nw.	1	0.4		4 c	0	w.		0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.78	731.0	30.00	762.0	72	22.2	57	s.	3	1.3		0	9 ks		s.	0	0	cloudy	W M. Mattingly.
Sitka, Alaska	29.69	754.1	29.75	755.6	49	9.4	86	sw.	4	1.8		0	5 k		sw.	0.31	7.9	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.07	763.8	58.2	14.6	74	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.84	757.9	29.88	758.9	64.5	18.1	86	w.	13	5.8			10 s		w.	0.91	23.1	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.90	705.6	29.94	760.5	53	11.7	61	n.	4	1.8		0	8 k			0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.46	748.3	30.13	765.3	52	11.1	72	e	7	3.1		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	26.99	685.5	29.95	760.7	63	17.2	73	sw.	8	3.6		0	0			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					59	15.0	50	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.48	748.8	30.16	766.1	52	11.1	86	n.	7	3.1		2 c	fg.			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.96	761.0	29.98	761.5	46	7.8	70	sw.	10	4.5			10 n			0.14	3.6	light rain	Samuel Applegate.
Verde, Fort, Arizona					50	13 3	23	nw			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.76	755 9	30.02	762.5	61.0	16.1	87	calm	0	0		2 ck	0	w.		0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.91	759.7	30.02	762.5	58.1	14.5	93	ne.	12	5.4			10 n		ne.	0.22	5.6	light rain	B. M. Purssell.
West Las Animas, Colorado	25.97	659.6	29.79	756.7	59.5	15.3	93	sw.	5	2.2		3 cs	5 s	se.	se.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	29.85	758.2	29.90	759.4	65.0	18.3	90	w.	9	4.0			10 s		w.	0.45	11.4	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.68	728.5	29.97	761.2	62.2	16.8	58	sw.	10	4.5		1 k	0	sw.		0	0	clear	E. H. Thompson.
Yuma, Arizona	29.58	751.3	29.72	754.9	67.5	19.7	84	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					79	20.1		n.			2		10 n		ne.	0.20	5.1	raining	W. H. Jackson.
Bogota, U. S. C.	22.04	559.8			54.5	12.5	66	n.	2	1		2 k	7ks;s	w.	w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	75.1	24.0	84	n	2	0.9		7 cs	3 s	ne.	e	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	81	27.2	74	se.			2	4 c	0	e.		0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.25	743.7	29.84	757.9	78	25.6	89	calm			0	0	6 ks		calm	0.83	21.1	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	90	ne.			1	6 ck	3 ks	se.	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	30.00	762.0	30.00	763.5	43.0	6.1	92	w.	10	4.5		2 c	2 s	n.	w.	0	0	fair	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	29.97	761.2	81	27.2	70	s.			1		2	ssw.				sm'h		d. clouds.
H. M. S. Coquette, N. 38° 11′, E. 20° 28′	30.03	762.7	77	25.0		nw.			3		3					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.16	766.1	80	26.7	87	ese.			4		6	ese.						d. clouds.
H. M. S. Griffon, N. 23° 46′, W. 73° 55′	30.09	764.3	83	28.3	91	ese.			3		2	ese.				2	se.	d. clouds.
H. M. S. Iris, off Port Said, Egypt	29.91	759.7	81	27.2	78	nnw.			3		0							blue sky.
H. M. S. Tenedos, St. Johns, N. F	30.25	768.3	53	11.7	86	w.			3		6	wnw.				1	w.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.24	768.1	53	11.7	80	calm	0	0			10		ne.	0	0			cloudy.
U. S. S. Alliance, N. 45° 03′ W. 59° 06′	30.33	770.4	55	12.8	93	wsw.			3		2		calm	0	0	sm'h		clear.
U. S. S. Galena, Brooklyn, N. Y	30.18	766.6	60	15.6	?	ene.			3		10		ene.			sm'h		raining.
U. S. S. Jamestown, Funchal, Madeira	30.11	764.8	81	27.2	59	e.			4		2					sm'h		clear.
U. S. S. Kearsarge, N. 40° 11′, W. 25° 03′	30.23	767.8	74	23.3	76	sse.			1		5?		calm			sm'h		cloudy?
U. S. S. Lancaster, Port Mahon, Spain	29.94	760.5	66	18.9	100	ne.			4		0					sm'h		clear.
U. S. S. Portsmouth, Provincetown, Mass	30.28	769.1	58	14.4	94	ene.			3		10		e.					drizzling.
U. S. S. Powhatan, N. 44° 02′ W. 61° 47′	30.35	770.9	60	15.6	88	ene.			1		10							cloudy.
U. S. S. Quinnebaug, Gibraltar, Mediterranean	30.14?	765.5?	74	23.3	62	sw.			2		2		sw.			sm'h		clear.
U. S. S. Saratoga, Oyster Bay, Long Island	30.20	767.1	57	13.9	?	ene.			5–6		10		ene.	h'vy	h'vy	sm'h	se.	raining.
U. S. S. Swatara, Picton, N. S.	30.29	769.4	53	11.7	80	wsw.			1		5		wsw.	0	0	sm'h		fair.
U. S. S. Vandalia, N. 46° 05′, W. 62° 09′	30.29	769.4	58	14.4	88	ssw.			3		2					sm'h		fair.
U. S. S. Yantic, N. 50° 24′ W. 51° 33	30.12	765.0	51	10.6	86	wnw.			4		8					mod.	nw.	cloudy.
S. S. British Princess, N. 43° 33′ W. 54° 35′ †	30.29	769.4	60	15.6		e.			3		5		e.	0	0	sm'h		
S. S. Lord Clive, N. 51° 24′, W. 16° 16′	30.14	765.5				w.			1		10			5 h'r	5 h'r	mod.	sw.	overcast.
S. S. Lord Gough, N. 50° 37′, W. 28° 45′	29.93	760.2	54	12.2		wnw.			6		10		wnw.	0	0	high	w.	cloudy
S. S. Ohio, Liverpool, Eng †	30.23	767.8	66	18.9	89	nw.			2		2		nw.	0	0			clear
S. S. Grecian, N. 55° 20′, W. 12° 00′	30.05	763.3	58	14.4	94	ssw.			2		10			3 h'r	3 h'r	mod.	sw.	drizzling.
S. S. Nova Scotian, N. 38° 50′, W. 71° 42′	30.07	763.8	73	22.8		ese.			3		10		sw.			sli't	sw.	cloudy.
S. S. Polynesian, N. 55° 47′ W. 37° 14′	29.56	750.8	49	9.4		w.			9		8		wnw.	0	0	h'vy	w.	cloudy.
S. S. Prussian, N. 47° 19′, W. 51° 34′	30.22	767.6	54	12.2		n.			4		6?		ne.	0	0		n.	clear?
S. S. Scandinavian, off Greenock, Scotland	30.24	768.1	57	13.9		sse.			1		3		var.					misty.
S. S. Alvo, Aux Cayes, Hayti, W. I			81	27.2		ese.			3		7		calm	0	0			cloudy.
S. S. Avilla, Ponce., Porto Rico. W. I * †	30.10	764.5	81	27.2		e.			1		3		e.	0	0			
S. S. Australia, N. 41° 02′, W. 28° 53′ * †	30.11	764.8	65	18.3		sw.			5		5		sw.	2 h'r	2 h'r	cross	nw.	squally.
S. S. Devonia, N. 50° 18′, W. 37° 54′ * †	30.06	763.5	52	11.1		w.			4		6?		w.			h'vy	wnw.	clear?
S. S. Dorian, N. 39° 49′, E. 1° 17′			68	20.0		nne.			6		8		ne.	2 h'r	2 h'r	r'gh	ne.	fine.
S. S. Furnesia, N. 44° 15′ W. 48° 32′ †	30.37	771.4	59	15.0	82	wsw.			2		0			0	0	mod	nw.	clear.
S. S. Llandaff City, N. 50° 39′ W. 21° 18′ †	30.13	765.3	68	20.0		w.			3		2					mod.	con	clear.
S. S. Gallia, N. 51° 16′, W. 18° 13′	30.04	763.0	65	18.3	89	calm			0		0			0	0		sw.	fine.
S. S. Pavonia, New York Bay, N. Y *	30.05?	763.3?	62	16.7	83	nne.			6		10			17 h'r	17 h'r			rainy.
S. S. Canada, N. 40° 30′, W. 73° 24′	30.21	767.4	60.8	16		e.			5		mist			mist	mist	sm'h	e.	misty.
S. S. France, N. 48° 53′, W. 29° 50′ †	30.11	764.7	57.2	14		wnw.			3		8		w.	0	0	h'vy	nw.	fair.
S. S. Arizona, N. 40° 56′, W. 68° 24′	30.23?	767.8?	59	15.0		ene.			4		10		e.			mod.	ene.	misty.
S. S. Wisconsin, N. 51° 22′ W. 14° 30′			60	15.6		s.			4		10		ssw.	8 h'r	8 h'r	mod.	wsw.	hazy.
S. S. Wyoming, N. 49° 59′, W. 30° 03′	30.04	763.0	57	13.9		w.			5		2		w.	2 h'r	2 h'r	h'vy	wnw.	clearing
S. S. Bohemia, New York, N. Y †	30.14	765.5				ne.			6		10		ne.	12 h'r	12 h'r			rainy.
S. S. Frisia, N. 48° 50′, W. 32° 21′	30.13	765.3				wnw.			3		7		wnw.	0	0	high	nw.	fair.
S. S. Gellert, New York, N. Y	30.16	766.1	56	13.3	94	ene.			4		8		se.	5 h'r	5 h'r			cloudy.
S. S. Silesia, N. 50° 24′, W. 1° 29′	30.24?	768.1?	64.5	18.1		n.			3		5		nne.	0	0	sm'h	n.	hazy.
S. S. Westphalia, New York, N. Y	30.17	766.3	56	13.3	100	ne.			6		10		ne.	12 h'r	12 h'r			rainy.
S. S. Rhaetia, N. 48° 05′, W. 39° 11′ *	30.08	763.9	54	12.2		nw.			4–5		9		wnw.	3 h'r	3 h'r	mod.	wnw.	cloudy.
S. S. Bulgarian, N. 51° 09′, W. 22° 02 *	30.10	764.5				ssw.			3		5?		wsw.	½ h'r	½ h'r	mod	sw.	cloudy?
S. S. Rosse, N. 49° 20′, W. 19° 20′ *	30.18	766.6	62	16.7		nnw.			4		6		nw.	6 h'r	6 h'r	mod.	sw.	gloomy
S. S. Teneirs, N. 42° 50′, W. 12° 00′	30.30	769.6	63	17.2	62	nne.			5	c	4 k		nnw.	0	0	3	wsw.	blue sky.
S. S. Rio Grande, N. 27° 00′, W. 89° 19′ †	29.97	761.2	82	27.8		e.			2		6?		e.	0	0			clear.?
S. S. Chalmette, Algiers, La †	30.03	762.7	77	25.0		calm			0		2			0	0	sm'h		clear
S. S. New York, N. 28° 20′, W. 88° 15′ * †	30.00	762.0	82	27.8		sw.			2		2		sw.	0	0	sm'h		clear.
S. S. Lone Star, N. 26° 24′, W. 79° 52′ * †	30.09?	764.3?	82	27.8		nw.			1		2		calm	0	0	mod.	ne.	clear.
S. S. Alleghany, Boston, Mass †	30.31	769.9	60	15.6		e.			3		8		e.	0	0			cloudy
S. S. Archimede, Palermo, Sicily †	30.03	762.7	80	26.7		ne.			3		3		ne.	0	0			clear
S. S. City of Washington, N. 24° 23′ W. 81° 06′ * †	30.00	762.0	76	24.4		se.			2		2		se.	0	0	sm'h		fine.
S. S. Denmark, N. 48° 24′, W. 31° 30′ †	30.18?	766.6?	58	14.4		w.			6		7		wsw.	0	0	h'vy	wnw.	squally.
S. S. Egypt, N. 43° 31′, W. 48° 02′	30.34	770.6	56	13.3		w.			3		8		w.	0	0	mod	w.	fair.
S. S. Helvetia, Liverpool, Eng						ne.			6		2		ne.	0	0			clear.
S. S. America, N. 45° —′, W. 45° —′ *	30.20	767.1	57.0	13.9	78	w.			4		5?		nw.	0	0	long	nw.	covered.?
S. S. Elbe, Bremerhaven, Germany	30.24	768.0	66.2	19.0	90	e.			3–4		4?		ese.	0	0			cloudy?
S. S. Fulda, N. 49° 50′, W. 11° 51′	30.22?	767.6?	59.0	15.0	78	s.			4		8		ssw.	4 h'r	4 h'r	mod.	ssw.	cloudy.
S. S. Habsburg, N. 44° 52′, W. 51° 14′	30.32	770.1				wnw.			3		2		wnw.	0	0	sm'h	wnw.	clear.
S. S. Main, N. 49° 49′ W. 8° 29′	30.34	770.6	60.8	16.0		w.			1		6		sw.	0	0	mod.	wnw.	fair.
S. S. Oder, N. 44° 07′, W. 52° 32′	30.31	769.9	59.0	15.0		nw.			2		4		w.	0	0	sm'h	nw.	fair.
S. S. Ohio, Baltimore, Md	30.02	762.5				n.			3–4		10		n.	9 h'r	9 h'r			rainy.
S. S. Saller, N. 50° 06′, W. 4° —′ *	30.21	767.3	59.0	15.0	68	n.			3		7		n.	0	0	sm'h	nw.	fair.
S. S. Strassburg, N. 49° 47′, W. 9° 46′	30.28	769.1	59.5	15.3	67	sw.			3		10		sw.	½ h'r	½ h'r	3	var.	cloudy.
S. S. Werra, N. 46° 10′, W 49° 39′	30.23	767.8	53.6	12.0		w.			4–5		4?		w.	0	0	mod	w.	cloudy?
S. S. Weser, N. 48° 46′, W. 15° 40′	30.23	767.8				ssw.			5		10		wsw.	0	0	long	nw.	cloudy.
S. S. City of Augusta, New York, N. Y	30.17	766.3				ne.			7		10		ne.	0	0			clear?
S. S. Muriel, Saint Thomas, W. I	29.97	761.2	85	29.4		e.			3		0			0	0	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic * †	30.16	766.1	82	27.8		sse.			2		5		sse	1 h'r	1 h'r			fair
S. S. Belgenland, N. 50° 08′, W. 4° 00′ †	30.34	770.6	56	13.3	87	calm			0		0			0	0	sm'h		clear.
S. S. Nederland, N. 45° 51′, W. 51° 53′			61	16.1	71	w.			5		2		w.	0	0	mod.	w.	clear.
S. S. Rhynland, No 50° 32′, W. 22° 16′	30.14	765.5	56	13.3	75	wnw.			4		3		w.	0	0	mod	nw.	clear.
S. S. Pennland, Antwerp, Belgium	30.09	764.3	66	18.9	89	e.			2		1		e.	0	0			clear.
S. S. Switzerland, N. 45° 18′ W. 52° 47′ * †	30.31	769.9				w.			2		0			0	0	sm'h		clear.
S. S. Vaderland, Antwerp, Belgium			59	15.0		e.			2		1		e.	0	0			clear.
S. S. Waesland, New York, N. Y	30.20	767.1	59	15.0		ne.			6		10		ne.	8 h'r	8 h'r			overcast.
S. S. Zeeland, N. 48° 23′, W. 35° 44′			58	14.4		nw.			7		5		wnw.	sq'lls	sq'lls	long	w.	fair.
S. S. P. Caland, N. 43° 10′ W. 57° 30′	30.38	771.6	57.7	14.3	88	nw.			2		10		nw.			1	w.	overcast.
S. S. W. A. Scholten, Water Weg, Netherlands	29.97?	761.2?	66.2	19.0	81	e.			3		7		e.	1 h'r	1 h'r	1	e.	fair.
S. S. Belize, N. 38° 35′, W. 73° 54′			75	23.9		e.			3		0			4 h'r	4 h'r	long	ene.	clear.
S. S. Valencia, N. 29° 04′, W. 71° 06′ †	30.19	766.8	82.5	28.1	81	w.			5		9		nne.	10 h'r	10 h'r	hv'y	var.	raining.
S. S. Caracas, N. 13° 38′, W. 68° 20′ * †	30.00	762.0	83.5	28.6	83	e.			6		2		e.	light	light	mod.	e.	hazy.
S. S. State of Nevada, N. 50° 06′, W. 38° 41′ †	30.08	764.0	52	11.1		wnw.			6		2		wnw.	0	0	long	wnw.	clear.
S. S. State of Alabama, N. 54° 16′. W. 17° 11′ *	30.01	762.2	62	16.7		sw.			6		2		sw.	0	0	long	sw.	clear.
S. S. Thingvalla, Swinemunde, Prussia †	30.35	770.9	63.5	17.5		ne.			3		2		ne.	0	0			clear.
S. S. Romano, Hull, Eng * †	30.09?	764.3?				ne.			5		7		nw.	0	0			
S. S. Salerno, New York, N. Y * †	30.25?	768.3?	67	19.4		nw.			3		10		n.	0	0			cloudy.
S. S. Oregon, N. 55° 33′, W. 34° 14′	29.55	750.6	43	6.1		w.			7		7		w.			h'vy	w.	cloudy.
S. S. Daniel Steinmann, N. 48° 57′, W. 20° 14′ * †	30.10	764.5	60	15.6		n.			3		0			0	0	mod.	w.	hazy.
S. S. Saxon, N. 39° 16′ W. 75° 20′ †	30.07	763.8				ne.			4		10		ne.	rain	rain			threatening.
S. S. Britannic, N. 46° 40′ W. 46° 07′ †	30.27	768.8	55	12.8		nw.			3		2		nw.	0	0	long	wnw.	d. clouds.
S. S. Celtic, Liverpool, Eng †	30.22	767.6	60	18.9	68	nw.			4		8?		n.	0	0	sm'h		clear.?
S. S. Germanic, N. 44° 12′, W. 43° 46′ * †	30.26	768.6	60	15.6		nw.			4		7		n.	0	0	mod.	nnw.	fair.
S. S. Amsterdam, N. 49° 40′, W. 17° 21′ *	30.16	766.1	57.2	14		ssw.			5								w.	heavy rain.
S. S. City of Alexandria, Vera Cruz, Mexico * †	29.88	758.9	80	26.7		wsw.			3								n.	raining.
Bk. Arda, N. 53° 51′, W. 3° 52′						var.			1		1		e.	0	0		e.	fair.
Bk. Alpheus Marshall N. 38° 06′ W 61° 27′ * †	30.25	768.3	72	26.1	91	sse.			3		4		s.	2 h'r	2 h'r	sm'h	e.	fair.
Bk. Ariadne, Staten Island, N. Y	30.26?	768.5?	60	15.6		ne.			6		10		ne.	4 h'r	4 h'r			cloudy

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, N. 42° 16', W. 70° 40'†	30.27	768.8				ne.			1		10		ne.	0	0			threatening
Schr. Abbie H. Gheen, Delaware Bay†	30.07	763.8	65	18.3		ne.			6									cloudy.
S. S. Antonio Lopez, N. 23° 41', W. 59° 56'	30.19	766.8	80.5	26.9	80	e.			4		2			¼ h'r	¼ h'r	mod.	e.	clear.
Bk. Aquidneck, N. 38° 40', W. 75° 19'			78	25.6		var.			7				var.	24 h'r	24 h'r	hv'y	ne.	heavy rain.
Bg. Alcira, N. 37° 54', W. 73° 28'	29.98	761.5	78	25.6		sse.			4		4?		ne.	10 h'r	10 h'r	r'gh	var.	cloudy.?
Bgt. Achsah, N. 28° 23', W. 61° 12'†	30.15	765.8	83	28.3		ene.			3		3		ene.	1 h'r	1 h'r	mod	e.	clear
Bk. Aureola, N. 13° 30', W. 26° 55'†	29.85?	758.2?	86	30.0		sse.			3		8		se.	2 h'r	2 h'r	mod.	s.	squally.
Bk. Adelaide, N. 26° 03', W. 49° 03'*†	30.26	768.6				ene.			5		2		e.	3 h'r	3 h'r	r'gh	e.	clear.
Bg. Belle of the Bay, N. 30° 24', W. 73° 20'†	30.07	763.8				s.			3		7		s.	2 h'r	2 h'r	r'gh	s.	threatening
S. S. Burswell N. 48° 08', W. 12° 25'*†	30.36	771.1	65	18.3		ssw.			2		10			0	0	st'g	nw.	overcast.
S. S. Cannonbury, Humocoa, Porto Rico, W. I*†	30.11?	764.8?				ene.			2		7		ene.	1 h'r	1 h'r	sm'h		rainy.
Bk. Celestina, N. 42° 15', E. 9° 47'*†	30.09?	764.3?				sse.			2		2			0	0	sm'h		clear.
Bk. Ceylon, N. 40° 37', W. 69° 09'†	30.21	767.3	64	17.8	83	ne.			5		10			6 h'r	6 h'r	r'gh	ene.	drizzling.
Schr. C. R. Flint, N. 35° 48', W. 64° 40'†	30.23	767.8	80	26.7		sse.			2		4		sw.	2 h'r	2 h'r	long	sw.	fair.
Bk. Cato, N. 36° 10', W. 3° 53'†	30.00	762.0				nw.			2		1							fair.
Bk. Don Justo, N. 58° 45', W. 11° 00'						sw.			5		1		sw.	2 h'r	2 h'r	long	wnw.	clear.
Bg. Daphne, N. 37° 47', W. 71° 38'*†	30.20?	767.1?	78	25.6		se.			3		4		ssw.	6 h'r	6 h'r	chop	var.	fair.
Bk. Childwall, N. 32° 56', W. 20° 11'*	30.04	763.0	75	23.9	90	s.			3		9		s.	0	0	sm'h	ne	cloudy.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I*†	30.00	762.0	81	27.2	82	ese.			2		3?		ene.	3 h'r	3 h'r			cloudy.?
Bkt. David A. Preston, Windsor, N. S						e.			2		10			0	0			
S. Dora, N. 44° 16', W 45° 25'*†	30.23	767.8	54.0	12.2		wnw.			4–5		6		wnw.	0	0	mod.	wnw.	fair.
S. David Stewart, N. 14° 05', W. 51° 30'			87	30.6		ne.			3		2		ne.	0	0	mod.	ne.	
S. E. J. Spicer, Antwerp, Belgium	30.18?	766.6?	64	17.8	94	ne.			1		10		ene.	0	0			
Schr. Edith R. Seward, Brunswick, Ga†	29.82?	757.4?	75	23.9		calm			0		1		calm.	0	0			clear.
Bk. E. D. Bigelow, Galveston Bar, Texas†	30.00	762.0	82	27.8		ne.			4		0			0	0			clear.
Bk. Edmund Phinney, N. 21° 44', W. 60° 10†'	30.12	765.0	83	28.3		e.			4		2		e.	sq'lls	sq'lls	mod.	e.	clear.
Bk. E. L. Pettingill, N. 4° 33', W. 22° 54'*†	30.10?	764.5?	80	26.7		sse.			3		8		s.	0	0	mod.	se.	cloudy.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.22	767.6	57	13.9		ene.			3		10		ne.	0.60	15.2			rainy.
S. Gatherer, N. 2° 05', W. 32° 30'*†	29.96?	761.0?	85	29.4	68	se.			4		5		ese.	0	0	sm'h	se.	clear.
Bg. George, Arroyo, Porto Rico, W. I*†	30.02	762.5	82	27.8		ene.			2		10		ene.	rain	rain			squally.
Bk. Galeon, N. 41° 19' W. 13° 20'†	30.28	769.1	66	18.9		nnw.			3		9		nnw.	0	0		n.	overcast.
Bk. Grey Eagle, N. 22° 55', W. 47° 57'*†	30.00?	762.0?				e.			5		1		e.	0	0	short	ese.	clear
S. Hedwig, N. 36° 26', W. 4° 07'	30.00	762.1	73.9	23.3	85	e.			2		3		var.	0	0		n.	
Schr. Isabel Alberto, Key West, Fla						se.			1		3		e.	light	light			clear.
Bkt. Josephine, N. 38° 10', W. 73° 44'†	29.97	761.2	76	24.4	82	ene.			4		2			2 h'r	2 h'r	long	ne.	hazy.
Bk. Johanne, N. 61° 16', W. 6° 24'*†	29.95	760.7	56	13.3		s.			3		8		sw.	0	0	mod.	sw.	hazy.
Schr. John L. Thomas, N. 22° 18', W. 84° 54'*†	30.00	762.0	85	29.4	83	ese.			2		2		se	0	0	light	e.	clear.
Schr. Jennie N. Huddell, Ready Island, Delaware Bay†	30.06	763.5	61	16.1	94	ne.			6		10		ne.	10 h'r	10 h'r			misty.
Bg. Josefa, Bristol, E g†	30.25	768.3				n.			2		8		n.	1 h'r	1 h'r			cloudy.
Bkt. Kryolith, Ivigtut, Greenland*†	29.20?	741.7?				n.			1		0							clear.
Bk. Lady Hincks, N. 36° 29', W. 27° 42'*†	30.15	765.8							1–2					0	0			
Bg. L. & W. Armstrong, Ft. Royal, Martinique, W. I*†	30.02	762.5				e.			1		1		ene.	2½ h'r	2½ h'r	sm'h		clear.
S. S. Madrid, N. 42° 55' E 32° 24'†	30.02	762.5	74	23.3	81	ene.			4		1		ene.	0	0	sm'h		fair.
Bk. Mohican, N. 3 50', W. 25° 10'	29.81?	757.2?	83	28.3		s.			4		5		se.	0	0	short	s.	misty.
Schr. Norena, N. 37° 53', W. 67° 50'*†	29.95?	760.7?				s.			4		7		sw.	0	0	rg'h	sw.	fine.
Bk. Orpheus, N. 55° 32', W. 25° 21'	29.95	760.7	60	15.6		s.			6		8		sw.	0	0	mod.	w.	fair.
Schr. Rollin Sanford, Key West, Fla†	29.80	758.4				calm.			0		8		sw.	0	0			cloudy.
Bg. Rising Sun, N. 28° 08', W. 70° 50'†	30.13	765.3	84	28.9		sse.			1		2		sse.	0	0	long	se.	clear.
Bgt. Sunlight, Demerara, British Guiana*†	29.93	760.2				n.			2		0		ene.	1 h'r	1 h'r			fair.
Bk. Scud, N. 40° 00', W. 73° 00'*†	30.08	764.0	74	23.3		ne.			6		9		ene.	12 h'r	12 h'r	short	ese.	clearing.
Bk. Tuck Sing, N. 21° 47', W. 84° 59'*†	29.94	760.5				se.			3		0			0	0	sm'h		fine.
Schr. Viola Reppard, Brunswick, Ga†	30.01	762.2	75	23.9		calm			0		2		calm	0	0			clear.
Bkt. Willie, N. 5° 55', W. 27° 50'*†	29.96	761.0	84	28.9		s.			5		8		s.	light	light	r'gh	se.	cloudy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 20° 50', W. 40° 18'	30.09	764.3	72	22.2	85	ne.			3		5	ne.				2	ne.	d. clouds.
H. M. S. Opal, S. 12° 38', E. 9° 36'	30.04	763.0	65	18.3	89	sse			3		5	ssw.				4	ssw.	d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.06	763.5	48.2	9.0	85	nw.			3		7	e.				2	nw.	d clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.03	762.7	51	10.6	79	nw.	14	6.3			8		w.	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.05	763.3	52	11.1	79	w.			2		2		n			sm'h		clear.
S. S. Hevelius, S. 11° 00,' W. 35° 30'*†	30.21	767.3	80	26.7		ene.			4		6		ene.	2 h'r	2 h'r	sm'h		fair.
S. S. Hohenstaufen, S. 25° 37', W. 46° 43'	30.00	762.0	68	20.0	100	w.			2		10		w.	8 h'r	8 h'r	mod.	w.	covered.
Bk. Great Surgeon, S. 29° 00', W. 27° 00'*†	30.40	772.1	69	20.6		nw.			4		7		w.	0	0	long	ese.	fair.
Bk. Godeffroy, S. 48° 05', W. 60° 14'	29.45	748.0	42.4	5.8	60	w.			6		8			snow	snow	r'gh	sw.	cloudy.
Bkt. Louise Adelaide, S. 22° 20', W. 38° 00'†.	30.09	764.3	77	25.0		ne.			2		4		ne.	0	0	long	ene.	fair.
S. S. Olbers, Rio de Janeiro, Brazil	30.03	762.7	75	23.9	90	calm			0		10			0	0	sm'h		foggy.
H. M. S. Bonducca, Simon's Bay, Cape Colony	30.04	763.0	60	15.6		wnw.			2–5		3	wnw.						showery.
Bg. John Wesley, S. 26° 06', W. 37° 55' *†	30.12	765.0	74	23.3		ne.			4		1			1 h'r	1 h'r	cross	var.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Vladivostock, Siberia	29.68	753.9	63	17.2	94	nnw.			3		10	wnw.				1	w.	overcast.
H. M. S. Flying Fish, N. 37° 12', E. 126° 00'	29.73	755.1	68.5	20.3	97	nw.			5–6		2	w.				5	nw.	squally.
H. M. S. Magpie, N. 5° 43', E. 119° 07'	29.92	760.0	83.0	28.3	81	sse.			3		10							misty
H. M. S. Mutine, N. 15° 03', W. 106° 55	29.83	757.7	82	27.8		e.			4		5					3	e.	showery
H. M. S. Zephyr, N. 41° 46' E. 140° 43'	29.55	750.6	75	23.9	95	calm			0		10							overcast.
H.P.M.S. Tamega, Canton, China	29.68	753.8	83.3	28.5	89	sw.			3		10			14 h'r	14 h'r			raining.
U. S. Naval Hospital, Yokohama, Japan	29.88?	758.9?	79	20.1	93	ssw.			0		10		s.	0.20	5.1			cloudy.
U. S. S. Essex, Roze Island, Corea	29.87	758.7	67	19.4	74	nnw.			3		2					sm'h		clear.
U. S. S. Monocacy, Roze Island, Corea	29.77	756.1	65	18.3	73	nnw.			2		2		calm			sm'h		fair.
U. S. S. Palos, Hong Kong, China	29.75	755.6	82	27.8	87	n.			1		10		calm					cloudy.
U. S. S. Pensacola, N. 19° 49', W. 178° 40'*	29.92	760.0	81	27.2	78	e.			3–4		2		e.	light	light	sm'h		clear.
U. S. S. Richmond, Yokohama, Japan	29.77	756.1	80	26.7	91	s.			5		10		s.	0.20	5.1			cloudy
S. S. Coptic, N. 43° 52', E. 163° 14'	30.30	769.6	65.5	18.6	66	s.			4		8		s;sw.	0	0	mod.	sw.	cloudy.
S. S. Oceanic, N. 45° 50', W. 145° 20'	30.36	771.1	64	17.8	89	s.			4		8		se.	rain	rain	sm'h		d. clouds.
S. S. Columbia, N. 45° 44', W. 124° 10'†	30.11	764.8	59	15.0	91	nnw.			4		7		nnw.			mod.	wnw.	cloudy.
S. S. Oregon, San Francisco, Calf	29.86?	758.4?	57	13.9	87	calm			0									clear.
S. S. Ancon, San Francisco, Calf†	29.90	761.0	54	12.2	87	ssw.			1		0							smoky.
S. S. State of California, Portland, Oregon†	30.13	765.3	58	14.4	88	calm			0		10		s.					cloudy.
S. S. Queen of the Pacific, Port Townsend, Wash Ter†	30.06	763.5	57	13.9	94	calm			0		9			0	0			overcast.
S. S. Victoria, Portland, Oregon†	30.08	764.0	57	13.9	94	sse.			2		5?		sse.					cloudy.?
S. S. City of Pekin, N. 48° 15', W. 160° 38'†	30.18	766.6	54	12.2	74	w.			4		5		w.	0	0	mod.	wsw.	fair.
S. S. City of Tokio, N. 25° 27', E. 119° 12'†	29.92	760.0	83	28.3	83	sse.			3		8		sse.	0	0	mod.	nne.	cloudy.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.79	756.7	81	27.2	87	ne.			1		10		w.	1.6	41.	sm'h		cloudy.
S. S. Colima, N. 19° 20', W. 105° 15'†	29.92	760.0	80	26.7	87	nne.			2		9		n.	0	0	mod.	sse	overcast.
S. S. Granada, Champerio, Mexico†	29.92	760.0	78	25.6	91	ne.			2		10		ne.	2 h'r	2 h'r	light	sse.	rainy.
S. S. San Juan, Panama, Panama			80	26.7		nne.			3		10 ns		nw.	2 h'r	2 h'r	gr'd		d. clouds.
S. Armenia, N. 21° 50', W. 123° 05'*	29.91	759.7	74	23.3	86	nne.			4		9		nne.	0	0	sm'h	nne.	cloudy.
S. St. David, N. 47° 19', W. 176° 34'*†	30.54	775.7	59.3	15.2	88	ssw.			0		7		sw.	0	0	light	ssw	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25', E. 155° 33'	29.93	760.2	78.3	25.7	89	n.			1		7					sm'h		showery
U. S. S. Hartford, S. 9° 00', W. 79° 20'*	29.93	760.2	63	17.2	94	se.			3		10			0	0	sm'h	s.	cloudy.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	61	16.1	88	calm			0		10							cloudy.
U. S. S. Lackawanna, S. 15° 00', W. 70° 18'*	30.03	762.7	60	15.6	82	se.					10					mod.	sse.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru*†	30.12	765.0	59	15.0	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Wachusetts, Callao, Peru*†	30.20	767.1	58	14.4	94	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W *†	29.70	754.4	56	13.3	63	nw.	.....	.....	4	6 ck	0	nw.	.....	.....	.....	.....	.....	fair.
S. S. Zealandia, S. 32° 40′, E. 176° 15′	30.00	762.0	57	13.9	87	ssw.	.....	.....	6	.....	5	.....	sw.	.....	.....	mod.	sw.	raining.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.11	764.8	66	18.9	.....	se.	.....	.....	2	.....	8	.....	sse.	0	0	long	sse.	foggy.
S. David Crockett, S. 32° 30′, W. 116° 37′*	29.73	755.1	61	16.1	71	w.	.....	.....	6	.....	4	.....	w.	5 h'r	5 h'r	r'gh	nw.	showery.
S. Sovereign of the Seas, S. 36° 33′, W. 85° 04′*†	30.48	774.2	54	12.2	80	w.	.....	.....	1	.....	10	.....	w.	0	0	sm'h	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 15° 30′, E. 49° 50′	30.15	765.8	.....	.....	.....	sse.	.....	.....	2	.....	5	sse.	.....	.....	.....	3	sse.	d. clouds
H. M. S. Euryalus, Zanzibar, Zanzibar	30.04	763.0	78	25.6	86	se.	.....	.....	1	.....	2	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	78	25.6	91	se.	.....	.....	3	.....	3	ese.	.....	.....	.....	2	sse.	d. clouds.
H. M S. Woodlark, N. 28° 39′, E. 49° 49′	29.78	756.4	90.5	32.5	70	nnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, Sunda Strait	29.93	760.2	82	27.8	100	calm	.....	.....	0	.....	10	.....	calm	0	0	sm'h	.....	cloudy.
S. S. Galatia, N. 11° 51′, E. 51° 35′†	29.65	753.1	76	24.4	91	s.	.....	.....	4	.....	2	.....	sw.	0	0	r'gh	sse.	light haze.
S. S. Benledi, N. 5° —′, E. 87° —′*	29.86	758.4	84.5	29.2	73	wsw.	.....	.....	4–5	.....	5	.....	wsw.	light	light	mod.	var.	showery.
Bk. Pilgrim, S. 26° 58′, E. 48° 10′*†	30.30	769.6	.....	.....	.....	ese.	.....	.....	4	.....	6	.....	ese.	0	0	cross	.....	cloudy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 13, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.7	78.1	25.6	75	e.			1		0			0	0	clear	Roziere.
Algiers			29.95	760.8	68.7	20.4	73	wnw.			4		10			inap.	inap.	covered	Thève.
La Calle			29.89	759.3	69.8	21.0	91	nne.			1		6			0.630	16.0	cloudy	Fonfrède.
Tunis			29.96	760.9	70.9	21.6	79	n.			2		5			0.232	5.9	cloudy	Delord.
Saida			30.00	762.0															Pérés.
Tebessa			29.97	761.1	64.4	18.0	71	nw.			1		4			0	0	cloudy	St. Martin.
Geriville					77.0	25.0	11	n.			2		2			0	0	fair	Forfert.
Laghouat			29.98	761.5	80.6	27.0	41	wnw.			3		1			0	0	very fair	Abraham.
Biskra			29.95	760.6	83.1	28.4	44	w.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.20	767.1	50.7	10.4	88	ssw.	6	2.7			9 ks		wsw.	0.067	1.7	light rain	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.88	758.9	29.97	761.2	50.0	10.0	92	w.	9	4.0			8			0.01	0.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.57	751.0	30.10	764.6	68.9	20.5	63	se.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.41	747.0	30.17	766.2	64.4	18.0	55	e.	12.5	5.6			3			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.72	729.5	30.12	765.0	68.0	20.0	62	se.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28 72	729.4	30.03	762.7	64.4	18.0	78	e.			3		7			0	0		The Staff.
Lemberg	29.28	743.6	30.25	768.4	61.9	16.6	63	se.			3		10			inap.	inap.		Dr. T. Stanecki.
Pola	29.94	760.4	30.05	763.2	74.8	23.8	51	se.			3		3			0	0		I. R. Hydrographic Office.
Szathmar	29.68	753.8	30.13	765.3	69.1	20.6	84	e.			4		8			0	0		Joseph Midlinszky, S. J
Szegedin	29.83	757.6	30.10	764.6	63.9	17.7	87	calm			0		6			0	0		Karl Stricel.
Trieste	30.01	762.2	30.11	764.7	68.4	20.2	73	sw.			1		10			0.024	0.6		Royal Academy.
Vienna	29.43	747.6	30.13	765.4	64.9	18.3	80	e.			1		6			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.23	767.8	30.33	770.4	53.5	11.9	90	sse.	11	4.9			10			0	0	overcast	W. Boswell.
Armagh, Observatory	30.03	762.7	30.26	768.6	62.2	16.8	65	sse.	6	2.7			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.26	768.6	61.3	16.3	75	sse.	14	6.3			0					misty	John Hartnup.
Bolton, Sharples	29.72	754.9	30.26	768.6	64.5	18.1	68	ese.	3	1.3								blue sky	Thomas Mackereth.
Bradford, Yorkshire	29.89	759.2	30.29	769.4	57.3	14.1	79	ne.			2		8			0	0	d. clouds	McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	85.0	29.4	68	se.			1		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	30.14	765 5	30.24	768.1	66.2	19.0	67	ne.			0.4		3					d. clouds	John McLaren.
Chatham, School M. E.	30.05	763.3	30.22	767.6	63.0	17.2	83	ne.			1		5					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.01	762 2	30.24	768.1	60.6	15.9	82	ese.			2		10					overcast	The Staff.
Fort Napier, Natal	27.68	703.1	29.90	759.4	59.0	15.0	88	e.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	30.16	766.1	30.19	766.8	61	16.1	77	s.			1		3			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.82	757.4	29.97	761.2	81.2	27.3	90	w.			2		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.09	764.3	30.30	769.6	56.9	13.8	84	ne.			3		10					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.05	763.3	30.22	767.6	62.9	17.2	77	nne.			1		3					d. clouds	The Staff.
Guernsey	29.88	758.9	30.18	766.6	66.0	18.9	79	nne.			1		4					d clouds	A. Collenette, F. M. S
Kew, Observatory	30.20	767.1	30.24	768.1	60.7	15.9	74	ne.	9	4.0			0					hazy	The Staff.
Leicester, Museum	30.00	762.0	30.25	768.3	63.1	17.3	73	ne.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	79.0	26.1	72	se.			2		6			0.29	7.4	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.03	762.7	30.07	763.8	85.5	29.7	68	se.			1		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.02	762.5	30.25	768.3	61.0	16.1	75	ne.			2		2					blue sky	The Staff.
Plymouth	30.14	765.5	30.22	767.6	63.2	17.3	82	e.			2		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	30.18	766.6	30.28	769.1	58.1	14.5	76						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.91	759.7	29.97	761.2	82.0	27.8	59	ne.			2		7					d. clouds	W. H. Lyne.
Sheffield	30.01	762.2	30.28	769.1	63.2	17.3	79	ne.			1		6			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.24	768.1	30.28	769.1	62.2	16.8	72	n.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.28	769.1	62.0	16.7	72	ne.	6	2.7								misty	W. C. Carlisle.
Strathfield Turgiss					63.1	17.3	80	ne.			0.3		0					blue sky	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.18	766.6	30.26	768.6	67	19.4	79	s			1		10					gloomy	W. Newcombe.
Valencia, Observatory	30.19	766.8	30.22	767.6	60.8	16.0	73	se.	19	8.5			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.49	749.0	29.89	759.2	79.2	26.2	65	e.	16.2	7.2		2 c	6 k; n	w.	e.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.08	764.0	30.11	764.8	59	15.0	88	calm	0	0		0	5 s			0	0		Hon. J. Ferguson.
Charlottetown, P. E. Island	30.13	765.3	30.17	766.3	58	14.4	76	sw.	5	2.2		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.09	764.3	30.15	765.8	52	11.1	83	sw.	4	1.8		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.90	759.4	30.09	764.3	44.1	6.7	93	e.			1	10 cs		w.		0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.03	762.7	30.08	764.0	55.0	12.8		w.			2	5 k?	0			0	0	blue sky?	H. A. Johnson.
Edmonton, N. W. T.	27.46	697 5			39	3.9	64	w.	6	2.7		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.05	763.3	30.07	763.8	53	11.7	80	nw.	18	8.0		2 k	0	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.74	730 0	29.54	750 3	63	17.2	68	s.	31	13.9		0	2 ks		s.	0.40	10.2	fair	James Stewart.
Fredericton, N. B	30.16	766.1	30.22	767.6	45.1	7.3	92	calm	0	0			fg.			0	0	dense fog	Prof. Thos. Harrison
Grand Manan, N. B	30.19	766.8	30.24	768.1	53	11.7	74	calm	0	0		5 k	0			0	0	hazy	J. Chipman Seeley
Granton, Ontario	29.02	737.1	30.11	764.8	55.0	12.8	80	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.13	765.3	30.26	768.6	49	9.4	93	calm	0	0		0	sk			0	0	smoky	A. Allison.
Hamilton, Ontario	29.64	752.8	30.03	762 7	51.7	10.9	96	ne.			1	10 cs		ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.76	755.9	30.10	764.5	55	12.8	80	ne.	7	3.1		5 ck	5 k		ne.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.10	764.5	30.14	765.5	58.5	14.7	86	sw.			3	0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.19	741.4	30.08	764.0	56.7	13.7	81	calm	0	0						0.07	1.8	overcast	E. B. Reed.
Medicine Hat	27.59	700.8	29.84	757.9	50	10.0	63	w.	2	0.9		0	5 ks			0	0	d. clouds	John Ewart.
Montreal, Quebec*	29.95	760.7	30.16	766.1	55	12.8	80	e.	7	3.1		10 ck		n.		0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.91	759.7	30.15	765.8	49.9	9.9	92					5 ck	0			0	0		A. McGill, M. A.
Parry Sound, Ontario*	29.44	747.8	30.14	765.5	50	10.0	100	ne.	5	2.2		5 c	0	se.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.39	746.5	30.13	765.3	49.7	9.8	78	e.			1	0	4 k			0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.37	746.0	30.00	763.5	58	14.4	88	ne.	9	4.0			10 cs		ne.	0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.42	747.3	30.06	763.5	56	13.3	86	ne.	8	3.6			10 n		ne.	0.01	0.3	light rain	M. Payne.
Que Appelle, N. W. T.	27.44	697.0	29.63	752.6	53	11.7	80	w.	10	4.5			10 n		w.	0.02	0.5	thund'r st'm	Leslie Gordon.
Quebec, Quebec*	29.82	757.4	30.17	766.3	50	10.0	93	s.	2	0.9		0	hz.			0	0	hazy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.72	754.9	30.19	766.8	45	7.2	93	calm	0	0			fg			0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B	30.16	766.1	30.21	767.3	46	7.8	92	calm	0	0		0	hz.			0	0	clear	
St. John, N. B	30.09	764.3	30.23	767.8	47.0	8.3	96	s.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.93	760.2	30.18	766.6	53	11.7	86	sw.			2		10 n			0	0	cloudy	The Commandant.
Saugeen, Ontario*	29.39	746.5	30.11	764.8	48	8.9	89	calm	0	0		7 cs	0			0	0	cloudy	
Stratford, Ontario	28.83	732.3	30.10	764.5	53.1	11.7	90	e.	2.5	1.1			10 s			0	0	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F			30.12	765.0	53.6	12.0		w.			2					0	0		The Commandant.
S. W. Point, Anticosti	29.98	761.5	30.02	762.5	45	7.2	80	calm	0	0		2 ck	5 s	nw.	calm	0	0	fair	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Sydney, C. B.	30.12	765.0	30.18	766.6	54	12.2	83	sw.	13	5.8		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.73	755.1	30.10	764.5	60	15.6	65	ne.	6	2.7			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	30.05	737.9	30.11	764.8	56.6	13.7	79	n.	4.5	2.0			10 s			0.02	0.5	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.18	766.6	30.25	768.3	53	11.7	77	e.	4	1.8		2 cs	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.15	765.8	30.18	766.6	57.0	13.9	75	se.	18.8	8.4			10 n			0.060	1.5	showery	I Garfelt.
Springbok Fontein	27.90	708.6			55	12.8	66									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	29.98	761.5	30.06	763.5	54.3	12.4	88	e.			1		10					cloudy	Samuel Redolez.
Iquique	29.99	761.7	30.02	762.4	58.8	14.9	69	sw.			3							cloudy	Rafael Moreno.
Niebla	29.63	752.5	29.73	755.2	38.8	3.8	97	e.			4		8		e.	0	0	misty	Federico Köhling.
Punta Caldera	29.93	760.3	30.02	762.5	54.5	12.5	80	sw.			1	8 c		sw.				fair	Manuel Tobar.
Punta Corona	30.12	765.1	30.31	769.9				se.			3	6 c		se.		0	0	fair	Ignacio Ayala.
Valparaiso	29.86	758.4	30.00	762.0	52.7	11.5	82	nw.			1							fair	Paez-I-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chiang	25.11	637.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.98	761.6	30.01	762.2	69.3	20.7	78	ne.	4.0	1.8		c;cs	6	w.		0	0	cloudy	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.34	770.7	30.39	771.9	64.6	18.1	60	ese.	13	6			0						Oversergent Fischer.
Fanoe	30.32	770.0	30.34	770.5	68.7	20.4	55	e.	9	4			1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.30	744.1	29.34	745.2	46.8	8.2	88	s.	20	9			10					raining	A. O. Thorlacius.
Thorshavn	30.15	765.9	30.18	766.5	54.0	12.2	82	sw.	16	7			4						Overloerer Bergh.
Vestervig	30.29	769.3	30.38	771.6	67.1	19.5	55	e.	4	2			0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.78	756.5			83.1	28.4		ne.	6.0	2.7			0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.51	749.5	30.15	765.7	65.1	18.4	66	calm			0	ck		nw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.77	750.1	30.28	769.1	62.6	17	75	ne.			1	c		sw.		0	0		M. Nicot, Director.
Avignon, Normal School	29.92	760.0	30.00	762.0	67.3	19.6	72	n.			1		8		n.	0.63	16.	raining	M. Giraud, Director.
Bar-sur-Seine	29.56	750.7	30.10	764.6	64.0	17.8	72	ne.			1		2			0	0	slightly cl'dy	M. Saillard, Director
Beauvais, Normal School	29.88	759.0	30.26	768.6	67.3	19.6	61	ene.			2		0			0	0	clear	M. Frère Eugène Marlé.
Besançon, Normal School	29.14	740.2	30.03	762.8	68.0	20	65	w.			1					0.984	25.0		M. Gobin, Director.
Bordeaux, Observatory	29.83	757.8	30.09	764.3	66.4	19.1	61	n.			1		8			0.016	0.4	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.52	749 7	30.05	763.3	71.6	22	83	s.			1				s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.96	760.9	30.20	767.0	65.8	18.8	73	ne.			2		6		ne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.09	764.3	30.17	766.4	63.3	17.4	84	n.			0–5		8		n.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29 77	756.2	30.08	764.1	70.3	21.3	74	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.00	751.9	30.10	764.4	73.0	22.8	49	ese.			2		2			0.12	3.	¼ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	20.74	729.9	30.07	763.7	65.3	18.5	62	n.			1		5		n.	0	0		M. Alluard, Director.
Cluny, Normal School	29.22	742.3	30.06	763.4	69.4	20.8	54	n.			1				n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.26	743.2	30.10	764.5	67.3	19.6	61	n.			1		2 kn	nw.	n.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.46	697.6	29.93	760.2	68.9	20.5	53	s.			2	5 ck				0.130	3.3		M. Jarach, Director.
Gréasque, du Rhone	28.80	731.4	29.88	758 9	73.4	23.0	45	sw.			2		9		sw.	0.047	1.2		M. Kina, Director.
Grenoble, Normal School	29.20	743.3	30.02	762.6	65.8	18.8	75	nnw.			6		n		nw.	0.071	1.8		M. Abiard, Directoor.
Guéret, Normal School	28.52	724.4	30.06	763.5	64.4	18	67	ne.			1		2 ck		sw.	c.04	1.	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.91	759.6	30.18	766.6	67.1	19.5	64	nw.			1		2		nw.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.52	749.8	30.14	765.6	62.4	16.9	72	w.			1		10 n			0.067	1.7	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.3	30.19	766.9	57.6	14.2	67	e.			1		10		ne.	0	0	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.00	736.7	30.04	763.0	65.7	18.7	62	nnw.			2		5 kn			0	0	cloudy	M. André, Director
Mans, Normal School	29.87	758.7	30.17	766.4	63.7	17.6		e.			1		2 ks		e.	0.346	8.8	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.68	753.9	29.95	760.6	76.1	24.5	80	ese.			1		10		e.	0.004	0.1		M. Stephan, Director.
Montlouis	24.80	631.4	29.70	754.4	47.8	8.8	38	nw.	11.2	5.0			10			0.382	9.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.95	760.7	65.5	18.6	83	w.			1		10	n.		0.24	6.	light rain	M. Galzin, Director.
Nantes, Observatory	30.03	762.7	30.19	766.8	67.5	19.7	64	ene.			0–1	c	6 k		e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.92	760.0	30.03	762.8	60.8	16.0	59	nw.	15.0	6.7			10		n.	0.039	1.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	539.9			32.0	0.0		e.			2		10		e.	0.079	2.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.97	735.7	30.01	762.2	65.5	18.6	68	ne.			1		2 k	ne.	ne.	0.094	2.4	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.25	641.3			46.4	8.0	100	ne.			3		8		ne.	0.024	0.6		M. Alluard.
Rochefort, Naval Obs'y	30.12	765.1	30.15	765.9	65.8	18.8	59	ne.			1		5		ne.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	760.0	30.13	765.4	65.5	18.6	93	ese.			1		5	ene.	ene.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.94	709.6	30.08	763.9	57.9	14.4	76						10		se.	0	0	covered	M. Seger, Director.
Rouen, Normal School	30.13	765.2	30.17	766 4	69.4	20.8	72	ne.			1		5	e.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.97	761.3	30.14	765.5	69.3	20.7	73	n.			1		1		n.	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.41	746.9	30.13	765.3	65.3	18.5	61	wnw.			2		8	e.		0	0	very cloudy	M. Baillard, Director.
Tours	29.97	761.2	30.15	765.7	67.6	19.8	61	ne.			1		1	se.		0.063	1.6	clear	M. de Tastes.
Versailles, Observatory	29.65	753.2	30.15	765.7	68.7	20.4	61	s.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.98	761.5	30.13	765.3	62.6	17.0	83	n.	5.8	3.6			10 k		sw.	0.299	7.6	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.65	727 7	30.07	763.8	64.0	17.8	62	ne.			2		7	ne.		0	0		Prof. Juedt.
Bamberg	29.29	744.0	30.14	765.5	65.7	18.7	66	e.			2		5 k		e.	0.051	1.3	raining	Prof. Dr. Hoh.
Berlin	30.08	704.0	30.22	767.6	69.1	20.6	48	e.			2		0			0	0		Dr. Lensch.
Breslau	29.70	754.3	30.23	767.9	67.5	19.7	53	e.			3		4	ese.		0	0		Royal University Obs'y.
Carlsruhe	29.03	752.6	30.08	764.0	68.0	20.0	55	ne.			3		3	ne.		0	0		Albert Senz.
Cassel	29.44	747.7	30.15	765.8	68.7	20.4	53	n.			2		6	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.75	755.6	30.11	764 7	69.6	20.9	46	ne.			1		4			0	0		Physical Society.
Friedrichshafen	28.65	727.8	30.04	762.9	67.3	19.6	70	sw.			2		5	ne.		0.016	0.4		Wilhelm, Chief Tel.
Hamburg	30.17	766.2	30.26	768.5	69.1	20.6	63	nne.			5		2			0	0		E. Freiler.
Kiel	30.28	769.2	30.30	769.6	63.9	17.7	64	ene.			3		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.74	755.5	30.16	766 0	67.8	19.9	53	e.			3		4	ese.		0	0		H. Leppig, Asst.
Magdeburg	29.99	761.7	30.17	766.4	70.5	21.4	50	e.			2		2	e.		0	0		Weather Observatory.
Memel	30.45	773.3	30.49	774.5	74.1	23.4	39	se.			3		0					clear	Issermann.
Munich	28.26	717.7	30.12	765.1	62.1	16.7	64	e.			2		8	nw.		0	0		Central Station.
Neufahrwasser	30.40	772 2	30.42	772.6	64.9	18.3	72	n.			2		1			0	0		A. Lothes.
Neustadt, Palatinate	29.54	750.2	30.06	763.6	69.4	20.8	56	ne.			1		8			0	0		Dicknether.
Stuttgart	29.13	739.8	30.00	762.0	65.7	18.7	60	ne.			1		6	e.		0	0		Prof. Dr. Schoder.
Wustrow	30.27	708.9	30.30	769.5	68.0	20.0	48	ene.			3		1 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.67	753.5	30.04	762.9	79.2	26.2		ne.			1.0		8 k			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.65	753.1	29.70	754.4	80.1	26.7	81	w.	25.0	11.2			10			0	0	overcast	
Deesa	29.22	742.1	29.69	754.0	84.1	28.9	65	sw.	11.0	4.9			9	sw.		0	0	d. clouds	
Bombay	29.81	757.1	29.84	758.0	81.5	27.5	77	wnw.	14.0	6.3			8		sw.	0.04	1.0	d. clouds	
Poona, Yarrowda	27.99	711.0	29.86	758.4	75.3	24.1	69	w.	19.0	8.5			5	wsw.		0	0	d. clouds	
Trichinopoly	29.54	750.4	29.82	757.3	94.8	34.9	36	wnw.	0.3	0.1			0			0	0	blue sky	
Bellary	28.32	719.4	29.77	756 2	86.5	30.3	42	wnw.	12.0	5.4			10	ese.		0	0	gloomy	
Belgaum	27.33	694.2	29.89	759.1	72.4	22.4	81	wsw.	7.0	3.1			4	w.		0.07	1.8	d. clouds	
Lahore	28.84	732.5	29.56	750.8	93.1	33.9	61	calm	0	0			0			0	0	blue sky	
Roorkee	28.71	729.2	29.58	751.4	87.8	31.0	76	s.	4.0	1.8			9	n.		0	0		
Agra	29.09	738.8	29.64	752.9	86.2	30.1	72	w.					10		w.	0	0	overcast	
Nagpur	28.68	728.4	29.72	754.8	80.2	26.8	79	wsw.	5.0	2.2			7		w.	0.02	0.5	d. clouds	
Jubbulpore	28.36	720.5	29.72	755.0	76.4	24.7	91	w.	5.0	3.6			6		sw.	0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.27	743.5	29.64	752.8	92.1	33.4	57	calm	0	0			10	sse.		0.75	19.1		
Allahabad	29.32	744.6	29.63	752.5	80.0	26.7	95	calm	0	0			10		sw.	0.07	1.8	gloomy	
Patna	29.44	747.7	29.62	752.4	85.0	29.4	78	sw.	2.3	1.0			10	sw.	sw.	0.26	6.6	overcast	
Hazaribagh	27.65	702.2	29.64	752.8	79.3	26.3	84	calm	4.2	1.9			10			1.94	49.3	thnd'rstorm	
Cuttack	29.61	752.1	29.69	754.2	83.0	28.3	75	ssw.	3.0	1.3			8			0	0	d. clouds	
Calcutta, Alipore	29.62	752.4	29.64	753.0	81.8	27.7	96	se.	3.0	1.3			7		s.	0.01	0.3	d. clouds	
Dhubri	29.52	749.8	29.64	752.7	83.7	28.7	87	calm	0.6	0.3			1			0	0	d. clouds	
Chittagong	29.63	752.5	29.72	754.8	81.2	27.3	89	ssw.	4.7	2.1			8		ssw.	0	0	d. clouds	
Sibsagar	29.32	744.7	29.65	753.2	85.6	29.8	79	nw.	2.0	0.9			8	w.	w.	0.40	10.2	d. clouds	
Jeypore	28.24	717.2	29.66	753.2	85.7	29.8	69	w.	8.0	3.6			9		w.	0.31	7.9	d. clouds	
Zanzibar	30.04	763.0			82.9	28.3	57	sse.	4.5	2.0			3	s.	ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.69	754.1	30.09	764.2	71.4	21.9	46	calm	0	0			7			0	0		Prof. Giovanni Olodig.
Milan	29.56	750.9	30.07	763.8	71.2	21.8	53	ne.	5.6	2.5			10	ene.		0	0		Prof. G.V.Schiapparelli
Padua	29.95	760.6	30.05	763.3	73.2	22.9	49	e.	6.3	2.8			9	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.9	30.06	763.5	67.1	19.5	66	nw.	1.3	0.6			8	e.		0	0		Prof. F. F. Denza.
Genoa	29.80	756.9	29.98	761.0	74.1	23.4	48	n.	4.9	2.2			2	n.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.18	715.7	30.06	763.5	63.5	17.5	69	n.			6		10			0	0		Prof. D. C. Bruno.
Pesaro	30.00	762.1	30.05	763.3	71.2	21.8	57	ne.	13.6	6.1			0			0	0		Prof. Luigi Guidi.
Florence	29.73	755.2	29.98	761.0	77.9	25.5	28	ne.			2		2			0	0		Prof. Costantino Pittei.
Leghorn	29.82	757.4	29.90	759.5	76.1	24.5	37	ne.	3.8	1.7			4			0	0		Prof. P. Monte.
Rome	29.78	756.3	29.95	760.6	75.7	24.3	53	sw.	2.5	1.1			10			0.500	12.7		Prof. P. Tacchini.
Lecce	29.79	756.6	30.04	763.0	75.2	24.0	48	e.	8.1	3.6			3			0	0		Prof. C. de Giorgi.
Cosenza	29.13	740.0	30.00	762.0	75.2	24.0	61	wnw.	2.5	1.1			5	nw.		0	0		Prof. D. Conti.*
Cagliari	29.64	752.8	29.83	757.6	73.2	22.9	69	e.			4		7			1.535	39.0		Prof. A. Pacinotti.
Palermo	29.68	753.8	29.92	760.0	75.7	24.3	58	w.	3.1	1.4			10	wsw.		0	0		Prof. G. Caccintore.
Syracuse	29.91	759.7	29.95	760.8	77.7	25.4	60	ese.	11.2	5.0			10	ese.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.47	748.4	29.98	761.4	71.8	22.1	59	nw.	0	0			10	sw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.77	756.1	29.81	757.1	65.1	18.4	90	nw.			4		10 n		sw.	0.779	19.8	raining	H. Hattori.
Awomori	29.76	755.9	29.80	756.9	62.0	16.7	95	sw.	1.2	0.5			10 n		w.	0.826	21.0	light rain	K. Ogawa.
Hamamatsu	29.80	756.9	29.83	757.6	69.2	20.7	77	w.			4	4c;ck	0	w.		0.220	5.6	fair	Sekigawa & Yamazaki.
Kagoshima	29.88	759.0	29.89	759.3	68.7	20.4	87	calm			0	0	0			0	0	clear	G. Miyanomaza.
Kanazawa	29.83	757.7	29.93	760.3	63.3	17.4	93	se.	1.5	0.6		0	7 ck			1.060	26.9	cloudy	S. Endo.
Kioto	29.76	755.8	29.93	760.2	62.0	16.7	91	nnw.	1.8	0.8		3 cs	4 s			0.766	19.4	fair	M. Tojima.
Kochi	29.85	758.2	29.87	758.7	73.8	23.2	63	e.	5.9	2.6		1 ck	0	e.		0	0	clear	K. Kusunose.
Miazaka	29.87	758.8	29.90	759.5	69.1	20.6	85	ne.			1	0	0			0	0	clear	K. Masusaki.
Miyako	29.60	751.9	29.71	754.7	70.2	21.2	85	e.	2.0	0.9			10 n			0.551	14.0	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.72	754.9	29.92	759.9	69.3	20.7	74	n.	0.9	0.4		2 cs	0	w.		0	0	clear	S. Takehaveshi.
Niigata	29.85	758.2	29.89	759.2	68.7	20.4	79	nw.	4.7	2.1			10 s		nw.	0.780	19.8	overcast	Satoo & Tomikawa.
Nobiru	29.69	754.1	29.71	754.5	72.1	22.3	81	nnw.	14.1	6.3			10 n			0.040	1.0	raining	Yoslino & Midzushina.
Numazu	29.79	756.6	29.82	757.4	70.0	21.1	86	ssw.			1	3c;cs	1 s			0.059	1.5	clear	R. Kaneda.
Osaka	29.91	759.7	29.92	760.1	65.0	18.3	83	ne.	2.7	1.2		10 cs	0			0.430	10.9	cloudy	H. Omura.
Sakai	29.95	760.8	29.96	761.0	69.1	20.6	61	n.			2	0	4 ks		e.	0	0	fair	Yamawchi&Sakamoto.
Shimonoseki	29.80	756.8	29.94	760.5	68.3	20.2	66	calm			0	1cs;ck	0	wsw.		0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.72	755.0	29.80	756.8	73.6	23.1	83	ssw.	6.8	3.0		8c;ck	0	s.		0.030	0.8	cloudy	The Staff.
Wakayama	29.86	758.4	29.91	759.7	67.1	19.5	75	ne.	3.2	1.4		9ck;cs	0	n.		0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	70.0	21.1	50	ese.	19.0	8.5		0	4 ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Leon																			Prof. M. Leal.
Mazatlan	29.59	751.6	29.85	758.1	81.0	27.2	83	ene.	0.9	0.4		0	1 cs			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata					83	28.3	82	e.			1	0	2 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.18	766.6	30.18	766.6	67.3	19.6		n.			4					0.012	0.3		
Groningen	30.17	766.4	30.23	767.8	64.6	18.1		e.			2					0	0		
Helder	30.21	767.3	30.21	767.3	61.9	16.6		ne.			2					0	0		
Hellevoetsluis	30.20	767.0	30.20	767.0	70.7	21.5	57	e.			1					0	0		
Utrecht	30.15	765.7	30.19	766.9	71.2	21.8	40	e.			3		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	759.9			79.9	26.6	74	n.	0	0			9			0	0		Lt.J. J. Ropuman, R.D.N
NORWEGIAN.																			
Bergen	30.33	770.4	30.39	772.0	66.6	19.2	51	s.	13.6	6.1			2			0	0		
Brono	30.34	770.6	30.38	771.6	65.1	18.4	57	sw.			4		2			0	0		
Christiania	30.34	770.7	30.49	774.4	65.7	18.7	66	wsw.	4	2			3			0	0		
Gjesvær	30.29	769.4	30.32	770.0	57.6	14.2		wsw.			2		7						
Lodingen	30.34	770.5	30.38	771.7	53.6	12.0	89	calm			0		10			0.063	1.6		
PORTUGUESE.																			
Angra, Azores					69.8	21.0	89	ene.	1.8	0.8			8			0.551	14.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	30.04	763.0	30.13	765.2	76.1	24.5	64	sw.	13.0	5.8			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.6	30.00	761.9	73.8	23.2	28	nne.	5.6	2.5			5	s.		0	0		The Staff.
Ponta Delgada, Azores	30.04	763.1	30.11	764.9	73.0	22.8	84	w.	7.9	2.2			10			0.024	0.6	light rain	
Saint Paul de Loando	29.81	757.1	30.01	762.3	70.5	21.4	86	nw.			2		10			0	0		
San Salvador, Congo	28.17	715.4	30.02	762.6	72.0	22.2	68	se.			2		10						
Serra da Estrella	25.34	643.7	29.97	761.2	59.2	15.1	36	e.	5.6	2.5			1			0	0		
RUSSIAN.																			
Akmolinski	28.90	734.0	29.96	760.9	59.2	15.1	55	ne.	20	9		8 ck	0			0	0		Major K. Lasarew.
Archangel	30.49	774.4	30.51	774.9	63.5	17.5	88	calm	0	0		0	6 ks			0	0		Capt. Sselilwerstow
Ashuradn	30.21	767.4	30.12	765.0	77.9	25.5	54	wnw.	7	3		0	1 k			0	0		
Astrakhan	30.35	770.8	30.28	769.0	67.1	19.5	31	ne.	9	4		0	1 s			0	0		Capt. Wisganow.
Baku	30.23	767.8	30.18	766.6	74.7	23.7	56	sse.	13	6		0	5 ks			0	0		
Barnaul	29.40	746.7	29.89	759.3	53.2	11.8	80	nw.	13	6			10			0.063	1.6		Meteorological Obs'y
Bielosersk	30.09	764.2	30.55	775.9	69.1	20.6	61	nw.	2	1		0	1 k			0	0		
Dorpat	30.37	771.3	30.61	777.4	70.5	21.4	45	s.	2	1		0	0			0	0		Observatory.
Ekaterinburg	29.33	745.0	30.29	769.4	57.4	14.1	49	nnw.	4	2		0	0			0	0		Meteorological Obs'y.
Elissawetgrad	29.86	758.5	30.30	769.5	80.1	26.7	23	e.	20	9		0	4 ks			0	0		
Irkutsk	28.21	716.5	29.84	757.9	49.6	9.8	74	calm			0		4			0	0		
Kasalinsk					61.2	16.2	77	s.	18	8			9 h					light rain	
Kasan	30.19	766.7	30.45	773.5	61.9	16.6	49	nne.	13	6		0	1			0	0		Observatory.
Kem	30.40	773.6	30.51	774.9	63.9	17.7	70	wnw.	4	2			9 k			0	0		
Kertch	30.10	764.6	30.13	765.2	75.2	24.0	45	ene.	4	2		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.72	754.8	30.33	770.3	77.4	25.2	31	ne.	9	4		0	4 ks			0	0	light clouds	Observatory.
Koslov	29.94	760.5	30.44	773.1	67.5	19.7	37	ene.	7	3		0	0			0	0		
Libau	30.49	774.5	30.52	775.1	73.2	22.9	44	ese.			5		0			0	0		E. Quaas.
Lugan	30.00	763.0	30.20	768.7	74.7	23.7	23	ene.	22	10			0			0	0		Meteorological Obs'y.
Moscow	30.02	762.5	30.48	774.3	69.4	20.8	49	ese.	4	2		0	5 ks			0	0		Meteorological Obs'y
Nikolaiev	30.16	766.0	30.23	767.8	81.5	27.5	31	ene.	45	20		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					43.2	6.2	78	calm	0	0		0	0						Iwanow.
Pekin, China	29.72	754.8	29.86	758.4	68.5	20.3	68	sw.	2.2	1.0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.82	757.3	30.15	765.9	74.5	23.6	21	sw.	2	1		0	0			0	0		
Petrozavodsk	30.32	770.1	30.51	775.0	68.7	20.4	52	nw.	9	4		3 ck	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Pinsk	29.89	759.3	30.38	771.6	72.9	22.7	51	e.	16	7		4 cs	0			0	0		
Poti	29.96	760.9	29.99	761.7	81.5	27.5	57	w.	4	2		0	0			0	0		
St. Petersburg	30.58	776.6	30.60	777.2	67.3	19.6	51	w.	9	4		0	0			0	0		Central Physical Obs'y.
Samarkand	27.74	704.7	30.17	766.4	65.7	18.7	50	calm	0	0		0	0			0.024	0.6		
Semipalatinsk	29.32	744.8	29.96	761.0	66.0	18.9	38	nw.	4	2			5			0	0		Major Lasarew
Sevastopol	29.86	758.5	30.07	763.7	79.9	26.6	47	nw.	7	3		0	1 ks			0	0		
Staroi Bykhov	29.92	759.9	30.46	773.6	74.5	23.6	73	ne.	11	5		0	1 k			0	0	light clouds	
Tashkend Laboratory	28.52	724.4	30.15	765.7	71.2	21.8	37	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.77	730.8	30.16	766.1	68.7	20.4	52	se.	7	3			10 n			0	0		Physical Observatory.
Vernoe	27.67	702.8	30.16	766.1	56.8	13.8	70	calm	0	0		0	2 k			0.488	12.4		
Viatka	29.80	757.0	30.43	772.9	62.2	16.8	63	n.	2	1			0			0	0		
Warsaw	29.91	759.7	30.33	770.3	69.6	20.9	42	e.	16	7		2 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.76	755.9	30.06	763.4	39.4	4.1	72	nw.	2	1			2			0	0		M. O. Marks.
SCOTTISH.																			
North Unst																			Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.82	757.3	29.90	759.4	70.2	21.2	66	w.	4.3	1.9		0	7			0.386	9.8		Antonio Molins.
Bilbao, Met. Obs'y	30.10	764.6	30.16	766.1	63.3	17.4	76	n.	1.6	0.7		2	4	ne.		0.016	0.4	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.4	30.08	763.9	59.0	15.0	68	ne.	6.9	3.1			4			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.97	761.1	71.4	21.9	32	e.	6.5	2.9		0	0			inap.	inap.	clear	The Staff.
Murcia, Met. Obs'y	29.80	756.9	29.92	760.0	77.0	25.0	46	e.	3.8	1.7		2	1	e.		0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.35	745.6	30.11	764.9	57.2	14.0	69	e.	6.7	3.0		4 s		w.	w.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.09	738.9	29.96	760.9	72.0	22.2	44	e.	1.3	0.6			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.95	760.7	30.02	762.4	76.1	24.5	87	sse.	4.0	1.8		c;cp	k;s	n.		1.116	29.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.90	759.4	79.0	26.1	92	e.	8.8	3.9		3 cs	3 ks		e.	0.059	1.5	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	759.9	30.02	762.4	73.2	22.9	69	sw.	8.0	3.6		4	5	sw.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	29.92	759.9	30.01	762.2	80.2	26.8	86	calm	0	0		3 cs	2 k	se.	se.	0.276	7.0		Enrique Gades, Chf Eng
SWEDISH.																			
Haparanda	30.49	774.4	30.52	775.4	52.9	11.6	98	s.			2		10			0	0		
Umea	30.49	774.4	30.54	775.7	56.1	13.4	94	sw.			2		10			0	0		
Hernosand	30.43	773.0	30.48	774.3	66.6	19.2	66	s.			2		2			0	0		
Stockholm	30.39	772.0	30.57	776.5	66.9	19.4	66	se.			2		1			0.004	0.1		
Wisby	30.39	771.9	30.45	773.4	71.6	22.0	49	ese.			4		0			0	0		
Sub-series.																			
Upsala	30.46	773.7	30.55	775.9	66.2	19.0	64	s.	4.9	2.2			0			0.004	0.1		H.H. Hildebrandesson.
SWISS.																			
Geneva	28.62	727.1	30.02	762.6	64.9	18.3	68	nw.			2		2			0	0	clear	The Observatory.
TURKISH.																			
Constantinople			30.04	763.0	78.4	25.8	68	n.	25	11.0			8		n.	0.047	1.2		The Observatory.
Valona			30.15?	765.9?	73.0	22.8		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.93	760.2	82.4	28.0	64	nw.			1		9 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.88	682.7			80	26.7	72	calm			0	3 ck	7 k	e.	w.	0	0	clearing	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.04	763.0	30.12	765.0	59	15.0	81	nw.	4	1.8			10 n		s.	0.13	3.3	light rain	J. O. Barnes.
Alpena, Michigan	29.46	748.3	30.12	765.0	49	9.4	93	w.	5	2.2			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.94	633.5	29.74	755.4	44	6.7	58	e.	7	3.1		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.11	688.6	29.96	761.0	48	8.9	71	sw.	13	5.8			10 s		w.	0.01	0.3	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.05	763.3	67.0	19.4	51	n.	6	2.7			10 s		n.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	67	19.4	90	s.	13	5.8			10 s		s.	0.49	12.4	cloudy	Jas. M. Watson.
Augusta, Georgia	29.87	758.7	30.06	763.5	69.0	20.6	78	calm	0	0		10 cs	hz.			0	0	cloudy	D. J. Young.
Baltimore, Maryland	29.94	760.5	29.99	761.7	64	17.8	100	s.	6	2.7			fg.			1.33	33.8	dense fog	Geo. W. Feiger.
Barnegat City, New Jersey	29.99	761.7	30.01	762.2	66.0	18.9	100	s.	14	6.3			10 n		s.	0.94	23.9	light rain	G. A. Hill.
Behring Id., Behring Sea	29.28	743.7	29.30	744.2	47.0	8.3	98	sw.	16	7.2			10 n			0.62?	15.7?	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.12	714.2	29.71	754.6	61.0	16.1	90	sw.	5	2.2		3 c	5 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.27	692.6	30.11	764.8	53	11.7	80	sw.	4	1.8			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.88	708.1	29.68	753.9	57	13.9	85	nw.	4	1.8		1 cs	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	61	16.1	100	ne.	20	8.9			10n;fg			1.16	29.5	light rain	J. T. Elker.
Boise City, Idaho	27.31	693.7	30.08	764.0	44	6.7	56	nw.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.04	763.0	30.19	766.8	56.0	13.3	100	ne.	7	3.1			10n;fg			0.03	0.8	light rain	O. B. Cole.
Brownsville, Texas	29.82	757.4	29.88	758.9	73.0	22.8	97	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.30	744.2	30.03	762.7	58	14.4	96	ne.	5	2.2			10 n		ne.	0.10	2.5	light rain	Wm. Finn.
Buford, Fort, Dakota	27.82	706.6	29.80	756.9	52	11.1	100	w.	3	1.3			10 s			0.17	4.3	cloudy	A. Schneider.
Cairo, Illinois	29.61	752.1	30.01	762.2	60.6	15.9	86	n.	2	0.9		0	fg.			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.98	761.5	30.18	766.6	57.1	13.9	99	w.	2	0.9		0	5 s		nw.	0.01	0.3	fair	O. D. Stewart.
Cape Henry, Virginia	30.06	763.5	30.08	764.0	65.0	18.3	90	s.	9	4.0		1 cs	0			0.05	1.3	clear	A. K. Alderson.
Cape May, New Jersey	29.99	761.7	30.02	762.5	66.0	18.9	90	sw.	24	10.7			10 s		sw.	1.56	39.6	cloudy	W. E. Smith.
Cape Mendocino, California	29.27	743.4	29.95	760.7	52	11.1	86	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	77.0	25.0	82	ne.	6	2.7		6 c	0	w.		0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	73.0	22.8	100	calm	0	0		8 c	fg			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.04	763.0	66.0	18.9	87	e.	2	0.9		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.02	762.5	64.5	18.1	92	calm	0	0		9 cs	fg.	s.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	29.79	756.7	51.4	10.8	51	w.	16	7.2			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.34	745.2	30.04	763.0	61.0	16.1	72	se.	5	2.2		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	65	18.3	90	s.	8	3.6			9 ks		sw.	0.31	7.9	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.39	746.5	30.04	763.0	63.0	17.2	72	ne.	1	0.4		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.32	744.7	30.04	763.0	61	16.1	86	calm	0	0			10 s		ne.	0.06	1.5	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.19	741.4	30.03	762.7	61	16.1	72	n.	3	1.3		5 k	3 s	nw.		0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.90	710.2	29.80	758.5	66.7	19.3	70	s.	14	6.3		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T.	26.82	681.2	29.94	760.5	50	10.0	86	w.	14	6.3			10 s			0.41	10.4	cloudy	T. Gibson.
Davenport, Iowa	29.33	745.0	29.98	761.5	54	12.2	80	e.	5	2.2		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	29.83	757.7	65	18.3	76	calm	0	0		0	6 ks			0.20	5.1	fair	J. Williams.
Dayton, Washington T'y	28.43	722.1	30.18	766.6	50	10.0	80	sw.	3	1.3		0	0			inap.	inap.	clear	D. Moore.
Deadwood, Dakota	25.29	642.4	29.85	758.2	52	11.1	100	n.	3	1.3			10 n			0.06	1.5	light rain	F. Des Willson.
Delaware Breakwater, Del.	30.00	762.0	30.02	762.5	64	17.8	100	sw.	12	5.4			10 s		sw.	0.95	24.1	cloudy	T. S. Townsend.
Denver, Colorado	24.60	634.8	29.71	754.6	53.5	11.9	61	s.	4	1.8			8 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.95	760.7	55	12.8	74	sw.	2	0.9			10 s		sw.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.37	746.0	30.06	763.5	57.0	13.9	74	nw.	7	3.1		10 k	0	nw.		0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.16	689.9	29.71	754.6	64	17.8	48	se	16	7.2		0	4 s		s.	inap.	inap.	fair	J. H. Bryce.
Dubuque, Iowa	29.30	744.2	30.00	762.0	51.2	10.7	86	se.	1	0.4		0	fg.			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.21	741.9	29.95	760.7	58	14.4	69	calm	0	0		0	hz.			0	0	clear	N. B. Conger.
Eastport, Maine	30.17	766.3	30.24	768.1	50.0	10.0	74	calm	0	0		sk.	fg;sk			0	0	dense smoke	D. C. Murray.
Elliott, Fort, Texas	27.12	688.8	29.80	756.9	66	18.9	75	calm	0	0		7 k	0			0	0	fair	J. C. Rickli.
El Paso, Texas	26.12	663.4	29.78	756.4	73.0	22.8	41	nw.	4	1.8		0	5 s		nw.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.31	744.5	30.02	762.5	59	15.0	93	e.	2	0.9			10 n			0.01	0.3	light rain	C. A. Shaw.
Escanaba, Michigan	29.41	747.0	30.07	763.8	50.0	10.0	100	n.	5	2.2			fg.			c	0	dense fog	George Heathcote.
Galveston, Texas	29.88	758.9	29.92	760.0	79	26.1	69	se.	4	1.8		2 cs	2 ks		s.	0	0	fair	E. O'C. Machnerney.
Grand Haven, Michigan	29.40	746.7	30.06	763.5	52.0	11.1	90	ne.	5	2.2		8 ck	0	se.		0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.12	638.0	29.72	754.9	60.2	15.7	39	n.	8	3.5		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	73.0	22.8	97	s.	7	3.1		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.82	655.8	29.99	761.7	58	14.4	50	sw.	12	5.4		5 k	0	w.		blank	blank	fair	I. H. Jones.

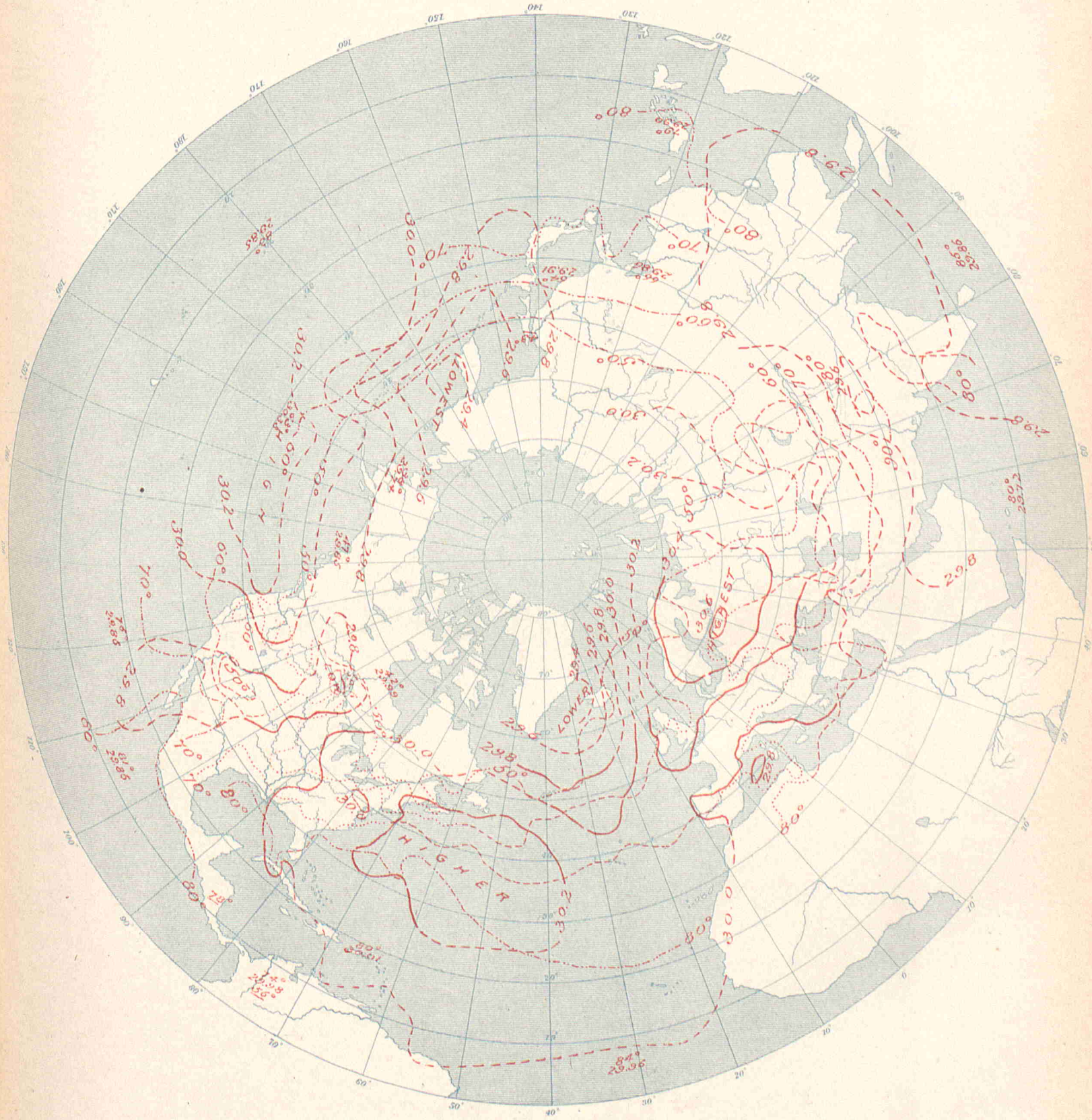
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.36	720.3	29.74	755.4	60.7	15.9	75	se.	16	7.2		0	5 ks		s.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.01	762.2	55.0	12.8	69	ne.	2	0.9		0	0			0	0	clear	C. F. R. Wappenhaus.
Indianola, Texas	29.88	758.9	29.91	759.7	76.2	24.6	86	s.	4	1.8		0	2 k		se.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.00	762.0	30.04	763.0	73.0	22.8	94	se.	1	0.4		4 cs	fg.			0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.33	745.0	29.98	761.5	51.0	10.6	80	e.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	81.0	27.2	79	calm	0	0		9 cs	1 ks			0.75	19.0	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	70	21.1	87	sw.	5	2.2		1 c	3 k		sw.	0.01	0.3	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.01	736.8	30.03	762.7	63.5	17.5	83	ne.	1	0.4		6ck;us	sk.	sw.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.23	742.4	30.00	762.0	55	12.8	74	s.	2	0.9		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.02	737.1	29.90	759.4	63.5	17.5	73	s.	4	1.8			10 n		s.	0.27	6.9	thund'r st'm	T. S. Outram.
Lewiston, Idaho	29.35	745.8	30.18	766.6	52.0	11.1	59	ne.	1	0.4		0	7 s			0	0	fair	C. E. Butler.
Little Rock, Arkansas	29.64	752.8	29.95	760.7	56	13.3	86	calm	0	0		0	hz.			0	0	clear	W. U. Simons.
Los Angeles, California	29.50	749.3	29.88	758.9	63.7	17.6	90	s.	3	1.3			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.44	747.8	29.99	761.7	62.5	16.9	86	n.	2	0.9		4 c	0	w.		0	0	fair	L. M. Dey.
Lynchburg, Virginia	29.35	745.5	30.03	762.7	62	16.7	90	sw.	1	0.4		0	fg.			0.52	13.2	clear	Louis Duane.
Mackinaw City, Michigan	29.46	748.3	30.11	764.8	53.0	11.7	86	se.	2	0.9		0	7 s			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	73.5	23.1	82	s.	7	3.1		0	2 s		s.	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.60	650.2	30.00	762.0	46	7.8	71	nw.	18	8.0			10 n		nw.	0.30	7.6	light rain	F. Burke.
Marquette, Michigan	29.34	745.2	30.06	763.5	58.0	14.4	70	s.	1	0.4		5 c	0	sw.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.97	761.2	62	16.7	78	calm	0	0		0	5s;sk			0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.30	744.2	30.04	763.0	56	13.3	86	s.	2	0.9		4 cs	fg.	se.		0	0	fair	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.99	761.7	30.03	762.7	71.7	22.1	89	se.	7	3.1			10 n		se.	0.20	5.1	light rain	H. U. Jones.
Montgomery, Alabama	29.80	756.9	30.03	762.7	73	22.8	90	sw.	8	3.6			10 n			0.05	1.3	light rain	Geo. E. Franklin.
Moorhead, Minnesota	28.79	731.3	29.78	756.4	62	16.7	87	se.	15	6.7		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	24.12	612.6	30.27	768.8	51.5	10.8	90	w	3	1.3		4c;cs	0			0	0	fair	S. W. Beall.
Nashville, Tennessee	29.41	747.0	29.98	761.5	62.0	16.7	87	nw.	1	0.4		10 cs	0	s.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.10	764.5	54	12.2	100	ne.	12	5.4			10 n		ne.	0.16	4.1	light rain	J. H. Sherman.
New London, Connecticut	30.10	764.5	30.15	765.8	60	15.6	100	ne.	4	1.8			10 n		ne.	0.83	21.1	light rain	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	74.0	23.3	84	se.	6	2.7		0	0			0	0	clear	M. Herman.
New York, New York	29.86	758.4	30.03	762.7	64.2	17.8	99	e.	10	4.5			10n;fg			1.01	25.7	light rain	H. J. Peurod.
Norfolk, Virginia	30.03	762.7	30.06	763.5	67.0	19.4	92	sw.	5	2.2		3 cs	0	sw.		0.05	1.3	clear	Wm. Davis.
North Platte, Nebraska	26.86	682.2	29.74	755.4	60.6	15.9	82	e.	2	0.9			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.12	765.0	30.16	766.1	50.0	10.0	93	s	1	0.4		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.95	760.7	60.0	15.6	90	se.	4	1.8			10 n		se.	0.46	11.7	thund'r st'm	A. Pollak.
Ogdaamie, Alaska																			P. H. Ray.
Oswego, New York	29.74	755.4	30.06	763.5	60.0	15.6	87	e.	3	1.3			10 s		e.	0.20	5.1	threatening	J. G. Linsley
Palestine, Texas	29.41	747.0	29.96	761.0	70.0	21.1	94	s.	10	4.5		2 cs	4 ks		s.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	73.2	22.9	82	nw	5	2.2			10 s		w.	inap.	inap.	cloudy	M. McGauran.
Philadelphia, Pa.	29.90	759.4	30.00	762.0	65	18.3	100	se.	5	2.2			10s;fg		se.	0.88	22.4	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.82	452.6	29.80	756.9	25	−3.9	80	sw.	12	5.4		0	6 s			0.01	0.3	fair	H. Hall.
Pittsburg, Pennsylvania	29.21	741.9	30.00	762.0	63.0	17.2	93	calm	0	0			10 n		w.	0.38	9.7	light rain	G. O. Schaeffer.
Poplar River, Montana					57	13.9	93	e.			1		10 n			0.78	19.8	heavy rain	M. J. Wright, jr.
Port Huron, Michigan	29.36	745.7	30.03	762.7	57.8	14.3	74	ne.	1	0.4			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.16	766.1	30.22	767.6	54	12.2	74	n.	2	0.9		7ck;cs	0	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.11	764.8	30.18	766.6	55.0	12.8	90	calm	0	0		0	4 k			0	0	fair	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.66	626.4	29.76	755.9	45.5	7.5	52	w	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.14	765.5	30.17	766.3	60	15.6	100	ne.	5	2.2			fg.			0.34	8.6	dense fog	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.57	751.1	29.92	760.0	72	22.2	35	n.	12	5.4		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.61	752.1	30.16	766.1	46.6	8.1	86	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.78	756.4	29.85	758.2	58.5	14.7	80	nw.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.41	747.0	30.00	762.0	57.5	14.2	90	ne.	1	0.4		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.71	754.6	29.74	755.4	38	3.3	82	s.	11	4.9			10 s		s.	0.29	7.4	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.08	738.6	29.93	760.2	56.0	13.3	74	s.	5	2.2		0	hz.			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.74	730.0	29.61	752.1	64	17.8	73	s.	16	7.2		2 k	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.62	650.7	29.87	758.7	58	14.4	64	sw.	2	0.9		5 k	0	sw.		inap.	inap.	fair	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.77	756.1	29.84	757.9	66.0	18.9	73	se.	6	2.7			10 s			0	0	cloudy	F. R. Day.
Sanford, Florida	29.98	761.5	30.03	762.7	76	24.4	79	calm	0	0		7 k	0			0	0	fair	J. B. Marbury.
Sandusky, Ohio	29.38	746.2	30.05	763.3	62.5	16.9	88	e.	2	0.9			10 s		e	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	66.0	18.9	93	se.	10	7.2			10 n			1.99	50.5	light rain	B. A. Blundon.
San Francisco, California	29.82	757.4	29.89	759.2	55	12.8	90	sw.	3	1.3		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.96	761.0	30.05	763.3	72	22.2	87	s.	1	0.4		7 c	0			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.94	760.5	49	9.4	80	w.	7	3.1		6 k	0	w.		0.03	0.8	fair	S. W. Morrison.
Shreveport, Louisiana	29.67	753.6	29.91	759.7	66.5	19.2	82	s.	2	0.9		0	5 s		s.	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.63	727.2	29.85	758.2	69	20.6	78	s.	8	3.6		0	0 s		s.	0	0	fair	W. M. Mattingly.
Sitka, Alaska	29.79	756.7	29.85	758.2	46.5	8.1	93	e.	7	3.1			10 n		e.	0.79	20.1	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.46	748.3	29.93	760.2	58.5	14.7	65	e.	4	1.8		4 c	0	w		0	0	fair	J. B. Campbell.
Smithville North Carolina	30.04	763.0	30.08	764.0	73.0	22.8	97	s.	1	0.4		0	fg.			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.08	764.0	46	7.8	80	sw.	1	0.4		0	2 s			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.32	744.7	29.99	761.7	54	12.2	66	e.	7	3.1		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	26.84	681.7	29.80	756.9	69	20.6	61	se.	10	4.5		0	0 s		w.	0	0	threatening	Louis Dorman.
Thomas, Camp, Arizona					60	15.6	52	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.35	745.7	30.04	763.0	55	12.8	80	ne.	4	1.8		5 ck	2 s	e.		0	0	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.02	762.5	30.04	763.0	45	7.2	76	sw.	8	3.6			10 n			0.32	8.1	light rain	Samuel Applegate.
Verde, Fort, Arizona					54	12.2	32	nw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.72	754.9	29.97	761.2	65.5	18.6	78	calm	0	0		7 c	0			0	0	fair	James Keneaty.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.91	759.7	30.02	762.5	62.5	16.9	92	s.	4	1.8			10 s		sw.	1.80	45.7	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.84	656.3	29.66	753.4	51	10.6	77	sw.	4	1.8		0	4 s		s.	0	0	fair	F. H. Brandenburg.
Williamsport, Pa.																			J. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	68.0	20.0	93	se.	1	0.4		2 cs	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.49	723.6	29.78	756.4	59.6	15.3	84	se.	14	6.3		0	7 k		s.	0.07	1.8	fair	E. H. Thompson.
Yuma, Arizona	29.51	749.5	29.65	753.1	67.0	19.4	72	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			2		10 n		n.	0.01	0.3	raining	W. H. Jackson.
Bogota, U. S. C.	22.07	559.5			55.8	13.2	74	calm	0	0			10ks;s		w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.98	761.5	77.6	25.3	80	nw.	1	0.4		0	0			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	82	se.			2	5 ck	4 s	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	74	23.3	94	ne.			1		10 ks		s.	0.54	13.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	90	se.			1	0	0			0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory B. A.	29.93	760.2	29.99	761.7	42.0	5.6	91	nw.	11	4.9			10 s		nw.	0.50	12.7	cloudy	Fortescue & Wilson.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 37° 55′, E. 23° 40′	30.04	763 0	81	27.2	63	s.			1		3	sw.				sm'h		d. clouds.
H. M. S. Coquette, N. 38° 11′, E. 20° 28′	30.09	764.3	76	24.4		s.			1		3					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.19	766.8	79	26.1	86	ese.			1		5	ese.						d. clouds.
H. M. S. Griffon, N. 26° 00′, W. 73° 00′	30.15	765.8	82	27.8	91	e.			3		1	e.				1	ese.	blue sky.
H. M. S. Iris, off Port Said, Egypt	29.97	761.2	78	25.6	73	wnw.			2		1	nnw.						blue sky.
H. M. S. Tenedos, Hare Bay, N. F.	30.11	764.8	56	13.3	87	calm			0		8							
U. S. Navy Yard, Portsmouth, N. H.*	30.15	765.8	58	14.4	76	ne.	4	1.8			10		ne.	0	0			cloudy.
U. S. S. Alliance, N. 45° 26′, W. 59° 37′	30.23	767.8	58	14.4	94	w.			3		8		w.	0	0	sm'h	w.	cloudy.
U. S. S. Galena, Brooklyn, N. Y.	30.05	763.3	66	18.9	?	ese.			2		10					sm'h		raining.
U. S. S. Jamestown, Funchal, Madeira Islands	30.12	765.0	75	23 9	86	sw.			3		0					sm'h		clear.
U. S. S. Kearsarge, N. 46° 18′, W. 24° 25′	30.08	764.0	71	21.7	80	e.			1		8					sm'h		cloudy.
U. S. S. Lancaster, Port Mahon, Minorca, Spain	29.75	755.6	67	19.4	100	n.			4		8		nne.			sm'h		cloudy.
U. S. S. Portsmouth, Provincetown, Mass	30.17	766.3	59	15.0	100	ene.			2		10		ene.					drizzling.
U. S. S. Powhatan, N. 45° 15′, W. 57° 35′	30.24	768.1	57	13.9	63	sw.			2		2							clear.
U. S. S. Quinnebaug, Gibraltar, Mediterranean	30.06?	763 5?	73	22.8	81	calm			0		2		se.			sm'h		clear.
U. S. S. Saratoga, Oyster Bay, Long Island	30.08	764.0	62	16.7	94	ese.			4		0?			h'vy	h'vy	sm'h		raining?
U. S. S. Swatara, Picton, N. S.	30.19	766.8	55	12.8	81	e.			1		8		e.	0	0	sm'h		fair.
U. S. S. Vandalia, Arichat, Madame Isle, N. S.	30.22	767.6	55	12.8	81	w.			1		0							clear.
U. S. S. Yantic, N. 47° 34′, W. 52° 32′	30.13	765.3	57	13.9	75	wsw.			4		8					sm'h		cloudy.
S. S. British Princess, N. 45° 34′, W. 48° 20′ †	30.25	768.3	54	12.2		wnw.			4		3		nw.	0	0	sm'h	wnw.	
S. S. Lord Gough, N. 50° 12′, W. 34° 53′	29.82	757.4	51	10.6		w.			4		8		w.	shr's	shr's	mod.	w.	cloudy.
S. S. Ohio, off Ballycottin, Ireland †	30.26	768.6	58	14.4		wsw.			2		4		sw.	0	0			clear.
S. S. Grecian, N 55° 29′ W. 5° 02′	30.27	768.8	57	13.9	87	ne.			1		10		ne.	11 h'r	11 h'r			hazy.
S. S. Nova Scotian, off Smith Point, P. E. I.	30.07?	763.8?	67	19.4		ssw.			2		5		sw.					fair.
S. S. Polynesian, N. 54° 49′, W. 42° 22′	29.77	756.1	46	7.8		w.			6		6		w.	0	0	r'gh	w	cloudy.
S. S. Prussian, N. 49° 25′, W. 45° 46′	30.16	766.1	54	12.2		nne.			2		1		n.	0	0		ne.	
S. S. Alvo, Aux Cayes, Hayti, W. I.			80	26.7		var.			3		10		calm	4 h'r	4 h'r		e.	gloomy.
S. S. Avilla. Ponce, Porto Rico, W. I *†	30.09?	764.3?	84	28.9		e.			1		0			rain	rain			
S. S. Australia, N. 41° 32′, W. 33° 41′ *†	30.09	764.3	66	18.9		w.			4		2		w.	2 h'r	2 h'r	h'vy	wnw.	clear.
S. S. Devonia, N 48° 17′, W. 43° 57′ *†	30.14	765.5	52	11.1		w.			3		2		wnw.			long	n.	clear.
S. S. Dorian, N. 41° 40′, E. 2° 57′	29.92	760.0	66	18.9		ne.			7		6?		ne.	2 h'r	2 h'r	r'gh	ne.	clear?
S. S. Furnessia, N. 46° 15′ W. 41° 58′ †	30.19?	766.8?	62	16.7	83	nw.			3		5?		n.	0	0	mod.	nw.	clear?
S. S. Landaff City, N. 51° 00′, W. 15° 43′ †	30.08	764.0	58	14.4		ne.			6		10		se.	0	0	long	nw.	foggy.
S. S. Bothnia, N. 40° 19′, W. 70° 02′	30.14	765.5	74	23.3	81	se.			1		10			4 h'r	4 h'r	mod.	var.	dense fog.
S. S. Gallia, off Skelligs, Ireland	30.18	766.6	62	16.7	88	s.			4		5		sw.	0	0	long	nw.	fair.
S. S. France, N. 47° 41′, W. 36° 42′ †	29.95	760.7	55.4	13		wnw.			5		5		w.	0	0	h'vy	nw.	fair.
S. S. Arizona, N. 43° 24′, W. 60° 31′	30.22	767.6	58	14.4		e.			1		10		e.	4 h'r	4 h'r	sm'h		showery.
S. S. Wisconsin, St. George's Channel			64	17.8		calm			0		0			0	0	sm'h		clear.
S. S. Wyoming, N. 48° 46′ W. 36° 41′	30.01	762.2	56	13.3		wnw.			4		4		wnw.	0	0	long	nnw.	fair.
S. S. Bohemia, New York, N. Y †	30.01	762.2				ene.			3–8		10		ne.	rain	rain			rainy.
S. S. Frisia, N. 47° 00′, W. 39° 07′	30.06	763.5				nw.			5		4		nw.	0	0	r'gh	nw.	fair.
S. S. Gellert, New York, N. Y	30.04	763.0	64	17.8	89	e.			3		10		e.	14 h'r	14 h'r			covered.
S. S. Silesia, N. 53° 05, E. 4° 20′			62	16.7		ne.			2		2		ne.	0	0	sm'h	ne.	hazy.
S. S. Westphalia, New York, N. Y	30.04	763.0	66	18.9	94	se.			4		10		se.	12 h'r	12 h'r			rainy.
S. S. Rhaetia, N. 46° 13′, W. 45° 27′ *	30.14	765.6	53	11.7		wsw.			4		7		wsw.	0	0	sm'h	ne.	cloudy.
S. S. Bulgarian, N. 51° 21′, W. 14° 45′*	30.12	765.0				ese.			3		10			0	0	high	nw.	light fog.
S. S. Archimedes, New York Bay, N. Y	29.97	761.2				s.			2–4		10		s.	0	0			foggy.
S. S. Rosse, N. 50° 35′, W. 14° 00′*	30.14	765.5	61	16.1		s.			6		10		ssw.	2 h'r	2 h'r	long	nw.	cloudy.
S. S. Teneiro, N. 39° 33′ W. 15° 02′	30.12	765.0	71.6	22.0	62	nne.			1	0	0			0	0			blue sky.
S. S. Rio Grande, N. 29° 15′, W. 94° 30′ †	29.94	760.5	82	27.8		se.			2		3		se.					squally.
S. S. Chalmette, N. 28° 15′, W. 88° 05′ †	30.00	762.0	78	25.6		se.			5		10		se.	0	0	mod.		cloudy.
S. S. Lone Star, N. 31° 00′, W. 79° 24′ *†	30.13	765.3	81	27.2		s.			2		2		calm	0	0	sm'h		clear.
S. S. Alleghany. N. 41° 00′ W. 70° 23′ †	30.21	767.3	60	15.6		e.			2		fg.			0	0	long	se.	dense fog.
S. S. City of Washington, Havana, Cuba *†	30.05	763.3	80	26.7		ne.			2		5		e.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 37° 36′, W. 74° 12′ *	29.97	761.2	71	21.7		sw.			3		7		sw.	3 h'r	3 h'r	long	ssw.	cloudy.
S. S. Denmark, N. 47° —′, W. 36° 45′ †	30.10?	764.5?	60	15.6		w.			6		7		w.	0	0	h'vy	wnw.	fair.
S. S. Egypt, N. 42° 12′ W. 55° 02′	30.19?	766.8?	69	20.6		e.			2		10		wsw.	0	0	mod.	w.	cloudy.
S. S. The Queen, St. Georges Channel			63	17.2		se.			2		2		calm	0	0	sm'h		clear.
S. S. America, N 48° —′, W. 38° —′ *	29.96	761.0	58.0	14.4	76	nw.			5		6?		nw.	0	0	long	nw.	covered?
S. S. Donau, N. 40° 20′, W. 70° 09′	30.18	766.6				e.			3		10			5 h'r	5 h'r	mod.	e.	foggy.
S. S. Elbe, off Beachy Head, Eng	30.23	767.8	68.0	20.0	75	ene.			2–3		0			0	0	sm'h	ene.	clear.
S. S. Fulda, N. 40° 25′, W. 2° 03′	30.21	767.2	58.1	14.5	94	ne.			3		10		ne.	0	0	sm'h		hazy.
S. S. Habsburg, N. 46° 41′. W. 44° 53′	30.19	766.8				sw.			2		9		wsw.	0	0	sm'h	sw.	cloudy.
S. S. Hermann, N 52° 24′, E. 3° 27′	30.18	766.6	71.6	22.0	82	ene.			3		2		ene.	0	0	mod.	ene.	clear.
S. S. Main, N. 50° 03′, W. 16° 06′			57.2	14.0		ne.			3		10		ne.	6 h'r	6 h'r	long	nw.	raining.
S. S. Oder, N. 42° 52′, W. 59° 23′	30.20	767.1	62.6	17.0		sse.			2–3		8		w.	0	0	sm'h	s.	cloudy.
S. S. Ohio, Baltimore, Md.	30.03	762.7				ssw.			3		10		var.	18 h'r	18 h'r			cloudy.
S. S. Salier, N. 51° 30′, E 2° —′*	30.22	767.6	65.3	18.5	51	ne.			5		4		ne.	0	0	sm'h		hazy.
S. S. Strassburg, off Start Point, Eng	30.22	767.6	63.5	17.5	76	ene.			3		10		ene.	0	0	1	ene.	hazy.
S. S. Werra, N. 43° 48′, W. 58° 04′	30.29	769 4	57.2	14.0		wsw.			3		10		wsw.	2 h'r	2 h'r	mod.	wsw.	hazy.
S. S. Weser, N. 47° 32′, W. 21° 52′	30.03	762.7	59.9	15.5		ne.			5		10			3 h'r	3 h'r	long	var.	cloudy
S. S. City of Augusta, New York, N. Y †	30.06	763.5				e.			4		10		sw.	0	0			clear?
S. S. Muriel, St. Thomas, W. I.	29.95	760.7	85	29.4		e.			3		0			sh'rs	sh'rs	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic *†	30.18	766.6	82	27.8		se.			1		2			¼ h'r	¼ h'r			clear.
S. S. Nederland, N. 44° 05′, W. 57° 15′			60	15.6	76	s.			4		0			0	0	mod.	s.	clear.
S. S. Rhynland, N. 50° 05′ W. 29° 19′	29.93	760.2	56	13.3	81	wsw.			3		3		w.	3 h'r	3 h'r	high	w.	clear.
S. S. Pennland, Antwerp, Belgium	30.13	765.3	62	16.7	88	e.			2		0			0	0			clear.
S. S. Switzerland, N. 47° 01′, W. 46° 46′ *†	30.19	766.8				sw.			1		2		sw.	0	0	long	nne.	clear.
S. S. Vaderland, Antwerpt, Belgium			67	19.4		e.			1		1		e.	0	0			clear.
S. S. Waesland, New York, N. Y.	30.06	763.5	66	18.9		se.			5		10		se.	15 h'r	15 h'r			rainy.
S. S. Zeeland, N. 47° 06′, W. 41° 00′ *†	30.00?	762.0?	59	15.0		wsw.			6				wsw.	sqll's	sqll's	h'vy	w.	fair
S. S. P. Caland, N. 42° 51′, W 63° 30′	30.22	767.6	61.2	16.2	94	calm			0		6		w.					fair.
S. S. W. A. Scholten, Brouershaven, Netherlands			68.0	20.0	72	ne.			2		8		e.					foggy.
S. S. Valencia, N. 32° 09′, W. 72° 08′ †	30.25	768.3	82	27.8	87	sse.			2		3		nw.	2 h'r	2 h'r	mod.	var.	clear.
S. S. Caracas, Curacoa, W. I.	30.00	762.0	83.5	28.6	83	ene.			4				e.	0	0	sm'h		overcast.
S. S. State of Nevada, N. 52° 10′, W. 32° 11′	29.80	756.9	48	8.9		wnw.			4		10		wnw.	4 h'r	4 h'r	rg'h	n.	cloudy.
S. S. State of Alabama, N. 55° 12′, W. 10° 46′*	30.17	766 3	54	12.2		e.			4		10		e.	6 h'r	6 h'r	long	w.	cloudy.
S. S. Thingvalla, Swinemunde, Prussia†	30.35	770.9	61.7	16.5		ene.			3		3		ene.	0	0			clear.
S. S. Romano, Hull, Eng						nw.			2		5		nw.	0	0			
S. S. Salerno, Fire Island, N. Y *†	30.15?	765.8?	67	19.4														
S. S. Oregon, N. 55° 03′, W. 39° 22′	29.72	754.9	44	6.7		wsw.			5		6		wsw.			h'vy	w.	fair.
S. S. Texas, N. 55° 23′, W. 6° 57′ *†	30.20	767.1	62	16.7	74	se.			3		3		w.	8 h'r	8 h'r	long	wnw.	clear.
S. S. Daniel Steinmann, N. 49° 19′, W. 14° 38′ *†	30.08	764.0	62	16.7		sse.			4		0?			2 h'r	2 h'r	high	w.	raining?
S. S. Saxon. N. 46° 20′, W. 73° 20′ †	30.15?	765.8?				e.			2		10		ese.	0	0			threatening.
S. S. Britannic, N. 44° 02′ W. 54° 06′ †	30.32	770.1	57	13.9		nw.			2		10		w.	3 h'r	3 h'r	long	w.	drizzling.
S. S. Celtic, Liverpool, Eng †	30.26	768.6	68	20.0	60	n.			2		2?		w.	0	0	sm'h		cloudy?
S. S. Germanic, N. 46° 58′, W. 36° 17′ *†	30.02	762.5	61	16.1		wnw.			5		6		n.	0	0	long	nnw.	fair.
S. S. Republic, N. 51° 34′ W. 14° 44′ *†	30.04	763.0	58	14.4	88	s.			3		10		w.	4 h'r	4 h'r	long	var.	drizzling.
S. S. Amsterdam, N. 49° 42′ W. 22° 50′			59.0	15		e.			1								nw.	
S. S. Algiers, N. 38° 12′ W. 74° 14′ *†	30.10	764.5	70	21.1		ene.			5								sw.	rainy.
S. S. City of Alexandria, Vera Cruz Mexico *†	29.85	758.2	77	25.0		calm			0							small	ne.	raining.
Bk. Arda, N. 53° 19′, W. 4° 40′						var.			1		1		ne.	0	0	sm'h	ne.	clear.
Bk. Alpheus Marshall, N. 37° 14′, W. 60° 42′ *†	30.26	768.6	78	25.6	91	wsw.			2		9		w.	0	0	light	wsw.	cloudy.
Bk. Ariadne, Staten Island, N. Y.	30.06	763.5	66	18.9	94	ese.			4		10		se.	16 h'r	16 h'r			cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, Boston, Mass†	30.17	766.3				ne.			1		10		ne.	3 h'r	3 h'r	sm'h		stormy.
Schr. Abbie H. Gheen, Delaware Bay†	30.04	763.0	67	19.4		wsw.			4									cloudy.
S. S. Antonio Lopez, N. 26° 40′, W. 55° 36′	30.25	768.3	80.5	26.9	82	ene.			5		6		ene.	½h'r	½hr	mod.	ene.	squally.
Bk. Aquidneck, N. 38° 46′, W. 75° 04′*†	30.10	764.5	78?	25.6?		wsw.			4				wsw	0	0		ese.	fair.
Bg. Alcira, N. 39° 45′, W. 73° 50′	30.07	763.8	75	23.9		ssw.			3		10		ssw.	2 h'r	2 h'r	mod.	n.	cloudy.
Bgt. Achsah, N. 30° 30′, W. 62° 00′†	30.20	767.1	83	28.3		e.			3		1		e.	0	0	mod.	e.	clear.
Bk. Aureola, N. 13° 10′, W. 26° 56′ †	29.90?	759.4?	92?	33.3?		calm			0		0			0	0	mod.	s.	clear.
Bk. Adelaide, N. 24° 18′, W. 47° 25′†*	30.19	766.8				e.			5		1		ese.	0	0	mod.	ese.	clear.
Bg. Belle of the Bay, N. 30° 45′, W. 73° 48′ †	30.15	765.8				sse.			3		5		se.	10 minutes		r'gh	se.	fair.
S. S. Burswell, N. 49° 00′, W. 7° 22*†	30.25	768.3	67	19.4		ene.			2		2		ne.	0	0	sm'h		clear.
S. S. Cannonbury, Humacao, Porto Rico, W. I *†	30.09?	764.3?				var.			3		6		ene.	5 h'r	5 h'r	sm'h		threatening
Bk. Celestina, N. 43° 47′, E. 9° 28′*†	30.08	764.0				sw.			0–1		1			0	0	sm'h		clear.
Bk. Ceylon, N. 40° 00′, W. 68° 25′†	30.24	768.1	74	23.3	90	ese.			1		6			½h'r	½h'r	long.	ene.	foggy.
Schr. C. R. Flint, N. 35° 18′, W. 63° 55′†	30.28	769.1	83	28.3		calm			0		2			1 h'r	1 h'r	long	w.	clear.
Bk. Cato, N. 36° 30′, W. 3° 00′†	29.95	760.7				w.			1		1		w.					clear.
Bk. Don Justo, N. 59° 24′, W. 12° 20′						wsw.			4		1		s.	0	0	h'vy	wnw.	clear.
Bg. Daphne, N. 37° 54′, W. 72° 45′*†	30.25?	768.3?	77	25.0		s			2		3		ssw.	1 h'r	1 h'r		ssw.	fair.
Bk. Childwall, N. 31° 28′, W. 20° 42′*	30.01?	762.2?	70	24.4	77	nne.			4		8		n.	0	0	mod	n.	cloudy.
Bkt. David A. Preston, Windsor, N. S.						s.			2		0			0	0			clear.
S. Dora, N. 42° 27′, W. 47° 04′*†	30.27	768.8	58.1	14.5		wnw.			3					0	0	sm'h	wnw.	blue sky.
S. David Stewart, N. 15° 56′, W. 53° 35′			87	30.6		ne.			4		3		ene.	0	0	mod.	ene.	
S. E. J. Spicer, Antwerp, Belgium	30.23?	767.8?	64	17.8	74	ne.			4		0			0	0			clear.
Schr. Edith R. Seward, Brunswick, Ga.			80	26.7		calm			0		5		sse.	0	0			fair.
Bk. E. D. Bigelow, Galveston Bar, Texas†	29.93	760.2	84	28.9		se.			3		2		ese.	0	0	mod.	se.	clear.
Bk. Edmund Phinney, N. 23° 30′, W. 62° 35′†	30.15	765.8	84	28.9		e.			4		2		e.	light	light	r'gh	e.	clear.
Bk. E. L. Pettingill, N. 2° 31′, W. 24° 56′			78	25.6		sse.			5		8		sse.	0	0	mod.	se.	cloudy.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.17	766.3	62	16.7		ne.			2		10		ne.	0.51	13.0			foggy.
S. Gatherer, N. 4° 34′, W. 32° 12′*	29.96	761.0	84	28.9	74	sse.			1		1?		se.	0	0	sm'h	sse.	cloudy.?
Bg. George, Arroyo, Porto Rico, W. I*†	30.00	762.0	80	26.7		ene.			2		10		ene.	rain	rain			squally.
Bk. Galeon, N. 40° 03′, W. 14° 03′†	30.12	765.0	68	20.0		nne.			2		9		nne.	0	0		n.	overcast.
Bk. Grey Eagle, N. 20° 45′, W. 46° 35′*†	30.00?	762.0?				e.			4		1		e.	0	0	sm'h		clear.
S. Hedwig, N. 30° 25′, W. 4° 16′	29.96	761.0	72.1	22.3	86	wsw.			1		0			0	0	sm'h		
Schr. Isabel Alberto, Key West, Fla†	29.98	761.5				s.			1		3		s.	hv'y	hv'y			fair.
Bkt. Josephine, N. 39° 38′ W. 73° 49′†	30.00	762.0	71	21.7	80	s.			3		10		s.	2 h'r	2 h'r	cross	var.	cloudy.
Bk. Johanne, N. 61° 22′, W. 4° 29′*†	30.25	768.3	57	13.9		ssw.			1		5		s.	0	0	sm'h		foggy.
Schr. John L. Thomas, N. 23° 38′, W. 84° 03′*†	30.00	762.0	85	29.4	83	e.			2		3		e.	10 minutes		light	ese.	fair.
Schr. Jennie N. Huddell, New Castle, Del†	30.02	762.5	67	19.4	95	ese.			4		10		sse.	h'vy	h'vy			cloudy.
Bg. Josefa, King Roads, Eng†	30.33	770.4				ene.			3		9		ne.	0	0			cloudy.
Bk. Lady Hincks, N. 35° 09′, W. 28° 22′ *†	30.15	765.8							1–3					0	0			blue sky.
Bg. L. & W. Armstrong, Ft. Royal, Martinique, W.I*†	30.00	762.0				e.			1		5		ene.	2 h'r	2 h'r	sm'h		raining.
S. S. Madrid, N. 44° 41′ E. 35° 14′ †	30.12	765.0	71	21.7	75	ene.			5		0			0	0	r'gh	ene	clear.
Bk. Mohican, N. 2° 50′, W. 26° 50′	29.86?	758.4?	84	28.9		sse.			5		3		ese.	0	0	rg'h	se.	clear.
Schr. Norena, N. 39° 40′, W. 67° 56′						ssw.			3		5		wsw.	2 h'r	2 h'r	mod.	w.	fine.
Bk. Orpheus, N. 57° 04′, W. 25° 28′	29.85	758.2	54	12.2		ssw.			3		4 cs		ssw.	0	0	mod.	w.	fair.
Schr. Rollin Sanford, Key West, Fla.						calm			0		8		calm	0	0			cloudy.
Bg. Rising Sun, N. 29° 41′, W. 71° 30′ †	30.18	766.6	83	28.3		se.			4		1		se.	0	0	long	se.	clear.
Bgt. Sunlight, Demerara, British Guiana*†	29.92	760.0				ssw.			2		9		e.	0	0			cloudy.
Bk. Scud, N. 40° 30′, W. 73° 00′*†	30.04	763.0	74	23.3		ssw.			2		10		ssw.	3 h'r	3 h'r	short	ne.	drizzling.
Bk. Tuck Sing, N. 23° 16′, W. 84° 24′*†	29.94	760.5				ese.			1		0			0	0	sm'h		fine.
Schr. Viola Reppard, Brunswick, Ga†	30.07	763.8	79	26.1		calm			0		8		se.	0	0			cloudy.
Bgt. Willie, N. 5° 22′, W. 25° 50′*†	30.00	762.0	85	29.4		s.			4		7		s.	light	light	r'gh	se.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 20° 50′, W. 40° 05′	30.07	763.8	73	22.8	78	n.			3		4	ne.				2	nne.	d. clouds
H. M. S. Sylvia, India Light, Uruguay	30.14	765.5	49.2	9.6	96	n.			2		3					1	n.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, Guinea	29.94	760.5	76.3	24	78	ssw.			2		8	ssw.		0	0	2	ssw.	gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.20	767.1	51	10.6	93	n.	5	2.2			8		n.	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.20	767.1	55	12.8	87	nnw.			1		1		n.			sm'h		clear.
S. S. Hevelius, S. 7° 21′, W. 38° 00′*†	30.20	767.1	79	26.1		e.			5		8		e.	2 h'r	2 h'r	sm'h		cloudy.
Bk. Great Surgeon, S. 30° 13′, W. 24° 45′*†	30.38	771.6	68	20.0		nw.			5		4		nw.	0	0	long	sw.	fair.
Bk. Godeffroy, S. 48° 06′ W. 59° 38′	29.92	760.0	38.1	3.4	80	sw.			5		7		sw.	snow	snow	mod.	s;sw.	squally.
Bkt. Louise Adelaide, S. 24° 25′, W. 39° 45′†	30.09	764.3	76	24.4		n.			2		hz		n.	0	0	long	ene.	fair.
S. S. Olbers, Rio de Janeiro, Brazil	30.20	767.1	72	22.2	92	calm			0		10			½h'r	½h'r	sm'h		overcast.
H. M. S. Boadicea, Simons Bay, Cape Colony	30.34	770 6	57	13.9		ese.			3		3	sse.						blue sky.
Bg. John Wesley, S. 26° 02′, W. 34° 57′*†	30.19	766.8	74	23.3		n.			4		2		n.	0	0	cross	var.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 26′, E. 134° 00′	29.91	759.7	64	17.8	78	calm			0		0					1	nw.	blue sky.
H. M. S. Flying Fish, N. 37° 18′, E. 125° 59′	29.93	760.2	72	22.2	54	nw.			3		3					3	w.	blue sky.
H. M. S. Magpie, N. 5° 46′, E. 119° 05′	29.89	759.2	81.5	27.5	83	se.			1		7		wnw.					d. clouds
H. M. S. Mutine, N. 13° 04′, W. 105° 15′	29.86	758.4	81	27.2		ssw.			4		8					5	ssw.	d. clouds.
H. M. S. Zephyr, N. 42° 04′ E. 139° 23′	29.81	757.2	65	18.3	89	nw.			4		8	se.				3	se.	d. clouds.
H. P. M. S. Pamega, Canton, China	29.78	756.4	84.6	29.2	83	ne.			4		9			8 h'r	8 h'r			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	29.81	757.2	75	23.9	84	s.			1		8			0.11	2.8			clearing.
U. S. S. Essex, Roze Island, Corea	29.99	761.7	71	21.7	85	wnw.			1		0					sm'h	wnw.	clear.
U. S. S. Monocacy, Roze Island, Corea	29.99	761.7	70	21.1	75	w.			2		0					sm'h		clear.
U. S. S. Palos, Hong Kong, China	29.78	756.4	80	26.7	96	calm			0		10		calm					cloudy.
U. S. S. Pensacola, N. 19° 53′, E. 179° 12′ *	29.85	758.2	83	28.3	71	ene.			4		10		e.	light	light	sm'h		cloudy.
U. S. S. Richmond, Yokohama, Japan	29.78	756.4	77	25.0	77	ssw.			2		5		ssw.	0.80	20.3			fair.
S. S. Coptic, N. 45° 37′, E. 170° 17′	30.16	766.1	61.0	16.1	80	sw.			4		8		sw.	0	0	mod.	sw.	misty.
S. S. Oceanic, N. 42° 15′ W. 159° 36′	30.33	770.4	63	17.2	100	calm			0		7			0	0	sm'h		d. clouds.
S. S. Oregon, San Francisco, Cal†	29.87	758.7	58	14.4	94	calm			0									hazy
S. S. Ancon, San Francisco, Cal†	29.88	758.9	55	12.8	87	calm			0									smoky.
S. S. State of California, N. 43° 20′, W. 124° 30′ †	30.23	767.8	60	15.6	82	nnw.			3		0					sm'h	nw.	clear.
S. S. Queen of the Pacific, Tacoma, Wash. Ter.	30.19	766.8	56	13.3	94	sse.			2		9			rain	rain			overcast.
S. S. Victoria, Portland, Oregon†	30.16	766.1	55	12.8	93	calm			0		5		nnw.					fair.
S. S. City of Pekin, N. 48° 25′, W. 166° 45′			52	11.1	86	wsw.			5		5		wsw.	0	0	light	wsw.	fair.
S. S. City of Tokio, N. 22° 26′, E. 116° 21′†	29.85	758.2	82	27.8	87	s.			3		10		s.	8 h'r	8 h'r	mod.	sw.	overcast.
S. S. City of Rio de Janeiro, Hong Kong, China†	29.85	758.2	82	27.8	83	calm			0		7		nw.	0.2	5.	sm'h		overcast.
S. S. Colima, N. 22° 50′, W. 106° 19′†	29.89	759.2	84	28.9	79	nw.			3		4?		wnw.	0.13	3.3		sse.	overcast.?
S. S. Granada, San Jose, Guatemala†	29.92	760.0	82	27.8	83	calm			0		10		ne.	0	0	light	sse.	cloudy.
S. S. San Juan, N. 7° 22′ W. 79° 40′			80	26.7		wsw.			2		10 ns		ssw.	0	0	gr'd	ssw.	d. clouds.
S. S. Armenia, N. 19° 10′, W. 122° 10′*	29.86	758.4	76	24.4	86	ne.			4		7		ne.	c	0	sm'h	ne;s.	fine.
S. S. St. David, N. 47° 22′, W. 170° 25′*†	29.86	758.4	62	16.7	88	wsw.			7		10		var.	3 h'r	3 h'r	h'vy	wsw.	gale.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.84	757.9	82.3	27.9	89	se.			3		0					sm'h		d. clouds.
U. S. S. Hartford, S. 7° 35′, W. 80° 00′*	29.95	760.7	66	18.9	84	s.			2		10			0	0	sm'h	s.	cloudy.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	60	15.6	88	sse.			2		10							cloudy.
U. S. S. Lackawanna, S. 16° 24′, W. 74° 38′*	30.01	762.2	60	15.6	88	se.			3		10					mod.	sse.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	59	15.0	88	s.			2		10		s.					cloudy.
U. S. S. Wachusetts, Callao, Peru*†	30.19	766.8	58	14.4	100	s.			1		8		calm					cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	29.84	757.9	54	12.2	67	sw.			3		0 c	0	sw.					fair.
S. S. Zealandia, S 30° 01′, E. 179° 51′	30.01	762.2	62	16.7	88	sw.			5		4		sw.			mod.	sw.	squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
Bk. Chas. Stewart, Lobos de Afuera Island, Peru†	30.09	764.3	66	18.9	.....	ese.	.....	.....	2	.....	.....	.....	.....	0	0	long	sse.	dense fog.
S. David Crocket, S. 35° 03′, W. 115° 20′ *	29.83	757.7	57	13.9	78	wsw.	.....	.....	6	.....	5	.....	w.	6 h'r	6 h'r	long	w.	showery.
S. Sovereign of the Seas, S. 35° 01′, W. 85° 14′ *†	30.40	772.1	55	12.8	87	w.	.....	.....	2	.....	9	.....	w	0	0	sm'h	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 17° 10′, E. 49° 45′	30.14	765.5	.....	.....	.....	ese.	.....	.....	2	.....	7	ese.	.....	.....	.....	3	ese.	d clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.01	762.2	79	26.1	86	sse.	.....	.....	1	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.06	763.5	79	26.1	82	sse.	.....	.....	4	.....	3	ese.	.....	.....	.....	3	sse.	d. clouds.
H. M. S. Woodlark, N. 30° 10′, E. 48° 10′	29.80	756.9	93.5	34.2	64	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, Batavia, Java	29.91	759.7	80	26.7	96	calm	.....	.....	0	.....	5	.....	calm	light	light	sm'h	.....	fair.
S. S. Galatia, N. 11° 07′, E. 55° 44′†	29.72	754.9	80	26.7	87	ssw.	.....	.....	4	.....	1	.....	sw.	0	0	r'gh	ssw.	light haze.
S. S. Benledi, N. 5° 30′ E. 84° —*	29.86	758.4	84.5	29.2	77	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	cross	var.	fine.
Bk. Pilgrim, S. 28° 02′, E. 44° 50′*†	30.15	765.8	.....	.....	.....	ne.	.....	.....	5	.....	4	.....	ne.	0	0	cross	.....	fair.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 14, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	760.9	75.6	24.2	79	n.			1		0			0	0	clear	Roziere.
Algiers			29.94	760.5	75.2	24.0	72	wnw.			5		0			0.283	7.2	clear	Thève.
La Galle			29.86	758.5	79.2	26.2	57	w.			3		3			0	0	pretty fair	Fonfrède.
Tunis			29.98	761.4	77.7	25.4	45	w.			2		1			0	0	very fair	Delord.
Saida			30.00	762.1															Pérès.
Tebessa			29.92	759.9	74.5	23.6	41	w.			3		1			0	0	very fair	St. Martin.
Geriville					60.8	16.0	52	nw.			4		5			0	0	cloudy	Forfert.
Laghouat			29.97	761.3	79.5	26.4	39	w.			2		2			inap.	inap.	fair	Abraham.
Biskra			29.91	759.6	82.4	28.0	31	w.			2		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.07	763.8	49.9	9.9	87	ne.	8	3.6			8 kn		w.	0.056	1.4	threatening	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.90	759.4	29.99	761.7	52.6	11.4	85	sse.	3	1.3			9			0.08	2.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.56	750.7	30.09	764.2	72.0	22.2	59	e.			3		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.45	747.9	30.19	766.9	69.4	20.8	58	ese.	16.1	7.2			6			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.80	731.6	30.19	766.9	74.3	23.5	44	se.			5		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.64	727.5	29.94	760.5	68.0	20.0	58	ese.			2		3			0	0		The Staff.
Lemberg	29.33	745.0	30.30	769.5	70.0	21.1	51	se.			5		0			0	0		Dr. T. Stanecki.
Pola	29.91	759.6	30.01	762.2	75.6	24.2	52	ese.			4		5			0	0		I. R. Hydrographic Office.
Szathmar	29.73	755.2	30.18	766.6	75.9	24.4	87	s.			5		2			0	0		Joseph Midlinszky, S. J
Szegedin	29.87	758.7	30.14	765.6	72.5	22.5	55	se.			2		6			0	0		Karl Stuccel.
Trieste	29.98	761.5	30.08	764.0	73.8	23.2	46	ne.			2		6			0.04	0.1		Royal Academy.
Vienna	29.45	747.9	30.15	765.8	66.7	19.3	62	se.			4		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.19	766.8	30.29	769.4	55.0	12.8	90	ene.	7	3.1			1			0.120	3.0	foggy	W. Boswell.
Armagh, Observatory	29.93	760.2	30.17	766.3	59.9	15.5	76	ese.	5	2.2			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.13	765.3	64.7	18.2	59	se.	7	3.1			0					misty	John Hartnup.
Bolton, Sharples	29.61	752.1	30.14	765.5	63.9	17.7	88	ese.	6	2.7								misty	Thomas Mackereth.
Bradford, Yorkshire	29.76	755.9	30.16	766.1	60.0	15.6	80	ne.			2		6			0	0	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	73	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.98	761.5	30.08	764.0	70.0	21.1	73	e.			0.6		4					d. clouds	John McLaren.
Chatham, School M. E.	29.89	759.2	30.06	763.5	67.3	19.6	72	ne.			1		6					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.87	758.7	30.10	764.5	58.5	14.7	85	e.			2		10					overcast	The Staff.
Fort Napier, Natal	27.90	708.6	30.12	765.0	60.5	15.8	52	e.			2		7			blank	blank	gloomy	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	30.04	763.0	30.07	763.8	61	16.1	82	e.			1		2			0	0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	29.93	760.2	29.98	761.5	74.9	23.8	94	nw.			2		5					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	30.00	762.0	30.21	767.3	60.7	15.9	69	e.			4							misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.91	759.7	30.08	764.0	66.4	19.1	74	ne			1		5					d. clouds	The Staff.
Guernsey	29.74	755.4	30.03	762.7	62.0	16.7	83	ene.			2		10					overcast	A. Collenette, F. M. S
Kew, Observatory	30.05	763.3	30.09	764.3	64.3	17.9	70	ne.	9	4.0			4					hazy	The Staff.
Leicester, Museum	29.85	758.2	30.10	764.5	64.8	18.2	73	nne.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.71	754.6	29.78	756.4	77.6	25.3	81	se.			2		6			0.01	0.3	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.09	764.3	82.0	27.8	79	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.88	758.9	30.11	764.8	64.9	18.3	70	ne.			3		4					d. clouds	The Staff.
Plymouth	30.00	762.0	30.08	764.0	63.5	17.5	78	s.			2		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.19	766.8	30.29	769.4	56.8	13.6	90						0					blue sky	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.96	761.0	30.02	762.5	80.8	27.1	52	ne.			2		5					d. clouds	W. H. Lyne.
Sheffield	29.87	758.7	30.15	765.8	62.1	16.7	72	s.			1		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.15	765.8	30.18	766.6	63.0	17.2	73	e.			3		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.16	766.1	63.4	17.4	67	ene.	10	4.5								blue sky	W. C. Carlisle.
Strathfield Turgiss					66.8	19.3	70	e.			0.5		1					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.04	763.0	30.12	765.0	68	20.0	69	se.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.02	762.5	30.05	763.3	61.7	16.5	83	sse.	17	7.6			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.45	748.0	29.84	757.9	79.2	26.2	79	sw.	7.5	3.4			1 n		sw.	0.366	9.3	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.08	764.0	30.12	765.0	63	17.2	89	calm	0	0		0	3 s			0	0		Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.2	30.06	763.5	64	17.8	77	n.	7	3.1		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B.*	30.05	763.3	30.11	764.8	62	16.7	84	ne.	5	2.2		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.84	757.9	30.03	762.7	61.2	16.2	92	e.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.04	763.0	30.09	764.3	57.0	13.9		w.			1	0	0			0	0	d. clouds	H. A. Johnson.
Edmonton, N. W. T.	27.45	697.2			36	2.2	61	w.	15	6.7		0	7 k		e.	0	0	cloudy	Alex. Taylor.
Father Point, Quebec*	30.09	764.3	30.11	764.8	54	12.2	83	calm	0	0		2 k	hz.	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.10	739.1	29.93	760.2	47	8.3	100	nw.	4	1.8		0	0			0.03	0.8	clear	James Stewart.
Fredericton, N. B.	30.06	763.5	30.13	765.3	52.2	11.2	86	calm	0	0			sk			0	0	smoky	Prof. Thos. Harrison
Grand Manan, N. B.	30.07	763.8	30.12	765.0	57	13.9	83	calm	0	0			fg.			0.015	0.4	foggy	J. Chipman Seeley
Granton, Ontario	29.06	738.1	30.15	765.8	55.0	12.8	93	calm	0	0			10 n			0.08	2.0	overcast	Jas. Grant.
Halifax, N. S.*	29.98	761.5	30.11	764.8	57	13.9	90	nw.	4	1.8		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.74	755.4	30.12	765.0	59.5	15.3	97	sw.			1	10 c		sw.		0.55	14.0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.75	755.6	30.08	764.0	62	16.7	96	sw.	3	1.3			10 n		s.	0.08	2.0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.99	761.7	30.02	762.5	65.0	18.3	78	nw.			3	0	0			0	0	blue sky	C. H. Rigby.
London, Ontario	29.28	743.7	30.17	766.3	58.2	14.6	97	calm	0	0						0	0	overcast	E. B. Reed.
Medicine Hat	27.47	697.7	29.79	756.7	51	10.6	50	s.	18	8.0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.86	758.4	30.06	763.5	58	14.4	83	se.	2	0.9		2 c	7 s	sw.		0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.82	757.4	30.06	763.5	58.0	14.4	89	n.				0	7 n			0.013	0.3		A. McGill, M. A.
Parry Sound, Ontario*	29.46	748.3	30.12	765.0	57	13.9	100	se.	1	0.4		2 cs	0	w.		0.08	2.0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.40	746.7	30.12	765.0	61.7	16.5	88	calm			0	0	5 k			0.03	0.8	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.48	748.8	30.16	766.1	58	14.4	100	calm	0	0			fg.			0.45	11.4	dense fog	H. Morgan.
Port Stanley, Ontario	29.51	749.5	30.16	766.1	58	14.4	96	ne.	2	0.9			10 n		ne.	0.01	0.3	cloudy	M. Payne.
Que Appelle, N. W. T.	27.62	701.5	29.88	758.9	44	6.7	83	sw.	10	4.5		0	2 s		sw.	0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.73	755.1	30.08	764.0	58	14.4	93	n.	8	3.6		10 cs	0	n.		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.65	753.1	30.10	764.5	59	15.0	93	w.	8	3.6			10 s		sw.	inap.	inap.	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.01	762.2	30.07	763.8	52	11.1	93	calm	0	0		hz	5 n			0	0	fair	
St. John, N. B.	29.97	761.2	30.11	764.8	52.0	11.1	100	s.	1	0.4			10 n?			c	0	blue sky?	G. Hutchinson.
Saint John's, N. F.	29.72	754.9	29.97	761.2	56	13.3	87	w.			2	0	2 ks			0.06	1.5	clear	The Commandant.
Saugeen, Ontario*	29.43	747.5	30.14	765.5	51	10.6	100	e.	5	2.2		2 cs	0			0	0	clear	
Stratford, Ontario	28.89	733.8	30.16	766.1	55.9	13.3	95	n.	1.0	0.4		1 k	2 s	n.		0.204	5.2	blue sky	C. J. Macgregor, M. A.
St. Pierre, N. F.			29.88	758.9	55.4	13.0		n.			2					0	0		The Commandant.
S. W. Point, Anticosti	30.00	762.0	30.04	763.0	51	10.6	100	nw.	3	1.3		0	0			0	0	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Sydney, C. B.	29.97	761.2	30.03	762.7	60	15.6	81	calm	0	0		0	sk			0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.77	756.1	30.15	765.8	58	14.4	93	n.	6	2.7			10 n			0.62	15.7	light rain	Magnetic Observatory.
Woodstock, Ontario	29.15	740.4	30.21	767.3	57.6	14.2	95	w.	3	1.3			10 ks			0.38	9.7	foggy	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.05	763.3	30.12	765.0	60	15.6	96	calm	0	0		fg	fg			0	0	foggy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.37	771.4	30.40	772.1	61.0	16.1	71	se.	9.1	4.1		6 c	0			0.350	8.9	fine	I. Garfelt.
Springbok Fontein	27.89	708.4			66	18.9	37									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	29.91	759.7	29.99	761.7	51.8	11.0	94	e.			1		10					hazy	Samuel Redolez.
Iquique	30.02	762.5	30.05	763.2	59.4	15.2	73	ne.			3							cloudy	Rafael Moreno.
Niebla	29.75	755.7	29.86	758.4	46.4	8.0	91	e.			2	3 n		calm		0	0		Federico Köhling.
Punta Caldera	29.94	760.5	30.02	762.7	54.9	12.7	80	nw.			2	8 c		se.				cloudy	Manuel Tobar.
Punta Corona	29.99	761.7	30.18	766.5				se.			1	6 cs				0	0	fair	Ignacio Ayala.
Valparaiso	29.90	759.4	30.04	763.0	52.7	11.5	85	sw.			1							fair	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Sung-shu-chwang	25.38	644.7																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.02	762.4	30.04	763.0	67.5	19.7	91	e.	4.9	2.2		ck	7	w.		0	0	very cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.26	768.7	30.31	769.9	65.5	18.6	67	e.	25	11			4						Oversergent Fischer.
Fanoe	30.20	767.1	30.22	767.6	68.5	20.3	60	e.	13	6			1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.00	762.0	30.04	763.1	50.0	10.0	96	s.	9	4			8					raining	A. O. Thorlacius.
Thorshavn	30.26	768.5	30.28	769.1	51.1	10.6	99	e.	7	3			10					foggy	Overloerer Bergh.
Vestervig	30.24	768.1	30.33	770.4	68.0	20.0	66	ene.	13	6			0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.80	756.8			83.5	28.6		nne.	3.1	1.4			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.38	740.2	30.01	762.3	70.2	21.2	63	calm			0	ck		w.		0	0		M. Labroue, Director.
Alençon, Normal School	29.60	751.9	30.23	767.9	65.1	18.4	84	ne.			1		1		sw.	0	0	clear	M. Nicot, Director.
Avignon, Normal School	29.89	759.1	29.97	761.1	77.4	25.2	68	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.42	747.2	29.96	760.9	66.2	19.0	64	ese.			1		5 k		e.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.4	30.00	762.0	66.2	19	64	ne.			1		2		ne.	0	0	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	29.05	737.9	29.94	760.5	68.9	20.5	69	ssw.								0	0		M. Gobin, Director.
Bordeaux, Observatory	29.69	754.0	29.94	760.4	73.9	23.3	44	e.			1		0			0	0	misty	M. Rayet, Director.
Bourges, Normal School	29.40	746.8	29.94	760.5	64.4	18	75	e.			1				e.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.84	757.8	30.08	764.0	66.9	19.4	77	ne.			1		4		ne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.93	760.3	30.02	762.4	68.4	20.2	72	n.			1		2		n.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.66	753.4	29.97	761.3	66.2	19.0	83	ese.			1		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.47	748.5	29.97	761.2	68.4	20.2	58	ese			1		10		ese.	0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.63	727.1	29.93	760.2	72.9	22.7	39	ne.			1	5 ck				0	0		M. Alluard, Director.
Cluny, Normal School	29.13	739.9	29.97	761.1	71.2	21.8	54	e.			1				e.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.13	740.0	29.96	761.0	66.2	19	64	ene.			1		5 kn	ene.	ene.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.92	759.9	69.8	21	51	s.			1	4 ck				0.146	3.7		M. Jarach, Director.
Gréasque, du Rhone	28.85	732.8	29.93	760.2	74.8	23.8	68	e.			2		7		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.17	740.9	29.92	759.9	70.9	21.6	61	ese.			1		10 kn		wsw.			light rain	M. Ablard, Directoor.
Guéret, Normal School	28.39	721.1	29.92	760.0	66.2	19	63	e.			1		5 cn		w.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.84	758.0	30.12	765.0	62.6	17	80	e.			1		10		e.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.40	746.7	30.02	762.6	65.3	18.5	68	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.2	30.03	762.8	70.9	21.6	72	ne.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.4	29.95	760.6	68.7	20.4	56	ene.			1		2 k		n.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.71	754.7	30.02	762.4	62.1	16.7		ene.			1		2 ks		ne.	0	0	slightly cl'dy	M. Richard, Director.
Marseille, Observatory	29.68	753.8	29.95	760.6	72.1	22.3	57	wsw.			1-2		9		e.	0	0		M. Stephan, Director.
Montlouis	24.84	630.9	29.68	753.9	51.8	11.0	63	sw.	5.6	2.5			9			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.80	756.8	29.90	759.5	76.3	24.6	66	ene.			4		1	ne.		0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.89	759.2	30.05	763.3	59.9	15.5	91	nne.			0-1		10			0	0		M. Larocque, Director.
Perpignan, Observatory	29.84	758.0	29.95	760.8	73.0	22.8	52	ne.	13.0	5.8			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.25	539.8			33.4	0.8		e.			1				e.	0.079	2.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.91	734.3	29.94	760.4	73.8	23.2	62	nw.			1		5	nw.	nw.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.17	639.2			51.6	10.9	83	e.			2		5 k			0	0		M. Alluard.
Rochefort, Naval Obs'y	29.93	760.2	29.96	761.0	73.4	23.0	60	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.3	29.99	761.7	68.4	20.2	100	ne.			1		2	ne.		0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.85	707.3	29.96	760.9	61.3	16.3	74	nw			1		1		ne.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.97	761.3	30.02	762.5	72.7	22.6	60	ne.			6		5	ne.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.84	757.8	30.00	762.0	67.1	19.5	67	nne.			1		4	n.		0	0		M. Renou, Director.
Toulouse, Observatory	29.29	743.9	30.01	762.3	70.9	21.6	53	n.			1		5	w.		0	0	cloudy	M. Bailland, Director.
Tours	29.82	757.3	29.99	761.8	66.2	19.0	77	n.			1		1	ne.	ne.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.51	749.5	30.00	762.0	66.9	19.4	58	ne.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.83	757.6	29.98	761.4	63.9	17.7	84	e.	4.0	1.8			9 k		n.	0.008	0.2	light rain	M. Cartier, Director.
German.																			
Ansbach	28.57	725.6	29.97	761.3	68.0	20.0	61	se.			2		8	se.		0.098	2.5		Prof. Jnedt.
Bamberg	29.17	741.0	30.02	762.5	68.9	20.5	60	se.			2		5 k		e.	0.024	0.6		Prof. Dr. Hoh.
Berlin	30.02	762.5	30.16	766.1	69.8	21.0	52	e.			2		2			0	0		Dr. Lensch.
Breslau	29.70	754.4	30.24	768.0	71.1	21.7	44	se.			4		2			0	0		Royal University Obs'y.
Carlsruhe	29.52	749.7	29.97	761.1	69.4	20.8	58	ne.			1		5	se.		0.031	0.8		Albert Senz.
Cassel	29.33	745.0	30.04	763.1	66.0	18.9	64	e.			4		6	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.7	29.95	760.8	68.5	20.3	62	e.			1		7			0	0		Physical Society.
Friedrichshafen	28.57	725.7	29.96	760.9	64.8	18.2	74	wsw.			2		3	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.06	763.5	30.15	765.8	67.5	19.7	61	ese			5		3			0	0		E. Preiler.
Kiel	30.17	766.2	30.18	766.6	63.5	17.5	67	e.			4		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.68	753.9	30.09	764.3	69.8	21.0	55	ese.			4		8	se.		0	0		H. Leppig, Asst.
Magdeburg	29.91	759.6	30.09	764.3	70.7	21.5	56	ese.			3		7	se.		0	0		Weather Observatory.
Memel	30.46	773.7	30.51	774.9	72.7	22.6	50	e.			3		0					clear	Issermann.
Munich	28.15	715.1	30.02	762.4	68.0	20.0	51	e.			3		2			0	0		Central Station.
Neufahrwasser	30.36	771.1	30.37	771.5	67.3	19.6	75	e.			3		1			0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.5	29.95	760.8	68.7	20.4	65	ne.			2		7	ne.		0	0		Dicknether.
Stuttgart	29.03	737.4	29.90	759.5	65.8	18.8	68	s.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.19	766.7	30.21	767.3	64.4	18.0	61	ene.			4		8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.71	754.6	30.08	764.0	80.4	26.9		ne.			1.0		5 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.64	753.0	29.70	754.2	81.9	27.7	79	sw.	29.0	13.0			10			0	0	overcast	
Deesa	29.23	742.4	29.70	754.3	82.5	28.1	66	sw.	13.0	5.8			8	sw.		0	0	d. clouds	
Bombay	29.80	757.0	29.84	758.0	81.3	27.4	81	wsw.	12.0	5.4			10		wsw.	0.031	0.8	overcast	
Poona, Yarrowda	28.00	711.2	29.88	758.9	72.8	22.7	74	w.	22.0	9.8			10			0	0	overcast	
Trichinopoly	29.53	750.0	29.80	757.0	92.7	33.7	43	nw.	0.1	0.04			4			0	0	d. clouds	
Bellary	28.30	718.8	29.74	755.3	90.0	32.2	37	w.	12.0	5.4			6			0	0	d. clouds	
Belgaum	27.32	693.9	29.87	758.6	73.5	23.1	74	wsw.	7.0	3.1			3	w.	s.	0.02	0.5	d. clouds	
Lahore	28.83	732.3	29.55	750.6	92.1	33.4	66	calm	0	0			0			0	0	blue sky	
Roorkee	28.71	729.3	29.59	751.6	86.4	30.2	77	calm	0	0			8	n.		1.60	40.6	thndr & light'g	
Agra	29.07	738.3	29.63	752.6	81.7	27.6	77	w.					10		w.	0.40	10.2	overcast	
Nagpur	28.66	728.1	29.70	754.3	82.7	28.2	73	calm	5.0	2.2			4		w.	0	0	d. clouds	
Jubbulpore	28.34	719.9	29.69	754.1	81.5	27.5	79	nw.	10.0	4.5			9		w.	0.10	2.5	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From.	Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.26	743.3	29.64	752.7	83.5	28.6	83	calm	0	0			8	se.		0.78	19.8		
Allahabad	29.31	744.5	29.62	752.4	83.5	28.6	84	calm	0	0			7			0.06	1.5	d. clouds	
Patna	29.45	747.9	29.63	752.6	81.8	27.7	89	nnw.	1.8	0.8			10	nnw.	nnw.	0.03	0.8	overcast	
Hazaribagh	27.66	702.5	29.66	753.2	78.5	25.8	89	calm	3.1	1.4			10			0.08	2.0	thund'r stm'	
Cuttack	29.61	752.0	29.69	754.0	84.5	29.2	74	s.	3.0	1.3			5			0	0	d. clouds	
Calcutta, Alipore	29.63	752.6	29.65	753.2	83.3	28.5	87	ssw.	3.0	1.3			8		sw.	0	0	d. clouds	
Dhubri	29.52	749.9	29.64	752.9	81.0	27.2	89	se.	2.6	1.2			10			0.20	5.1	gloomy	
Chittagong	29.63	752.7	29.72	755.0	80.7	27.1	90	s.	3.8	1.7			9			0	0	d. clouds	
Sibsagar	29.35	745.4	29.68	753.8	83.0	28.3	87	ne.	2.0	0.9			10	w.	w.	1.56	39.6	overcast	
Jeypore	28.25	717.6	29.68	754.0	80.5	26.9	83	ssw.	4.7	2.1			9		s.	0.08	2.0	d. clouds	
Zanzibar	30.02	762.5			80.3	26.8	58	ssw.	2.4	1.1			6		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.67	753.7	30.07	763.8	69.1	20.6	58	e.	3.1	1.4			10			0.228	5.8		Prof. Giovanni Clodig.
Milan	29.57	751.0	30.08	763.9	70.9	21.6	45	ne.	5.6	2.5			7	e.		0	0		Prof. G.V.Schiapparelli
Padua	29.95	760.6	30.05	763.3	66.0	19.2	72	ne.	11.2	5.0			10	ne.		0.028	0.7		Prof. Dott. Lorenzoni.
Moncalieri	29.16	740.6	30.05	763.2	66.9	19.4	65	n.	4.9	2.2			8	e.		0.626	15.9		Prof. F. F. Denza.
Genoa	29.78	756.5	29.97	761.2	66.2	19.0	63	n.	6.9	3.1			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.17	715.5	30.05	763.3	57.0	13.9	95	nw.			4		10			0.146	3.7		Prof. D. C. Bruno.
Pesaro	29.96	760.9	30.00	762.1	66.6	19.2	88	se.	7.4	3.3			10	se.		0.197	5.0		Prof. Luigi Guidi.
Florence	29.68	753.8	29.93	760.2	74.3	23.5	53	ne.			6		10			0	0		Prof. Costantino Pittei.
Leghorn	29.79	756.7	29.87	758.8	71.4	21.9	57	ne.	11.9	5.3			10			0	0		Prof. P. Monte.
Rome	29.71	754.5	29.87	758.8	73.0	22.8	57	e	2.5	1.1			8	se.		0	0		Prof. P. Tacchini.
Lecce	29.76	755.9	30.01	762.3	73.6	23.1	59	se.	28.0	12.5			10	sse.		0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.3	29.93	760.3	74.8	23.8	61	nw.	3.1	1.4			9	w.		0.087	2.2		Prof. D. Conti.*
Cagliari	29.84	757.9	30.03	762.7	69.4	20.8	81	se.			2		10			0.346	8.8		Prof. A. Pacinotti.
Palermo	29.60	751.7	29.84	757.9	67.6	19.8	91	ne.	2.5	1.1			10	ssw.		1.421	36.1		Prof. G. Caccintore.
Syracuse	29.79	756.6	29.83	757.7	79.0	26.1	61	ese.	22.4	10.0			9	s.		0.354	9.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.42	747.3	29.94	760.5	60.5	15.8	95	nnw.	1.3	0.6			10			1.232	31.3	raining	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.11	764.8	30.15	765.8	63.6	17.6	96	calm			0	6ck;cs	4 k	sw.	sw.	0	0	cloudy	H. Hattori.
Awomori	30.14	765.5	30.17	766.3	59.1	15.1	91	ssw.	inap.	inap.		7cs;ck	0	sw.		0	0	fair	K. Ogawa.
Hamamatsu	30.04	763.0	30.07	763.7	73.0	22.8	92	calm			0	5 cs	5 s		se.	0	0	overcast	Sekigawa & Yamazaki.
Kagoshima	30.02	762.5	30.03	762.8	74.9	23.8	69	calm			0	2 ck	7 ks;s			0	0	cloudy	G. Miyanonaza.
Kanazawa	29.99	761.9	30.09	764.4	69.6	20.9	78	calm	0.2	0.1			10 ck		sw.	0	0	cloudy	S. Endo.
Kioto	29.90	759.4	30.07	763.8	68.9	20.5	79	nne.	0.6	0.3		1 ck	9ck;s	sw.	sw.	0	0	cloudy	M. Tojima.
Kochi	30.03	762.8	30.05	763.3	70.9	21.6	80	nw.	2.9	1.3		9ck;cs	0	sw.		0	0	overcast	K. Kusunose.
Miasaka	30.01	762.3	30.04	763.0	71.0	21.7	85	ne.			1		10ks;s		e.	0.008	0.2	overcast	K. Masusaki.
Miyako	30.09	764.3	30.20	767.1	63.3	17.4	86	s.	0.2	0.1			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	72.5	22.5	76	ne.	0.6	0.3		8c;cs	0	sw.		0	0	cloudy	S. Takehavashi.
Niigata	30.08	764.0	30.11	764.8	70.8	21.6	85	se.	1.3	0.5			10s;ks		var.	0	0	covered	Satoo & Tomikawa.
Nobiru	30.16	766.0	30.17	766.4	67.3	19.6	79	ne.	5.2	2.3			10ks;s			0.115	2.9	overcast	Yoslino & Midzushina.
Numazu	30.07	763.8	30.10	764.6	73.2	22.9	79	ese.			4	8c;ck	1 s	s.		0.130	3.3	cloudy	R. Kaneda.
Osaka	30.04	763.1	30.06	763.5	68.9	20.5	78	ne.	4.1	1.8		8ck;cs	1 ck	sw.	sw.	0.025	0.6	cloudy	H. Omura.
Sakai	30.06	763.6	30.07	763.8	72.7	22.6	62	ne.			4		10 ks		nne.	0	0	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.91	759.8	30.00	763.5	70.3	21.3	80	calm			0		10 s		w.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.06	763.5	30.13	765.4	70.0	21.1	84	n.	8.2	3.7			10 s		ne.	1.400	35.6	covered	The Staff.
Wakayama	30.00	761.9	30.05	763.2	72.0	22.2	69	ne.	4.0	1.8		10 ck	0	w.		0.016	0.4	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	70.0	21.1	69	e.	13.5	6.0		0	10ks;n		ese.	0	0	overcast	The Staff.
MEXICAN.																			
Leon	24.27	616.4	29.90	759.4	60.6	15.9	87	nnw.	0.9	0.4		4 c	1 k	se.	se.	inap.	inap.	cloudy	Prof. M. Leal.
Mazatlan	29.60	751.9	29.86	758.4	79.0	26.1	80	ne.	1.6	0.8		4 cs	0	ese.	ese.	0.118	3.0	fair	F. Quijano, C. E.
Sub-series.																			
Altata					75	23.9	82	n.			1	1 c	1 k	e.	s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.03	762.8	30.03	762.8	68.7	20.4		ne.			4					0.004	0.1		
Groningen	30.04	762.9	30.09	764.3	64.4	18.0		ne.			4					0	0		
Helder	30.08	764.1	30.08	764.1	62.2	16.8		ene.			4					0	0		
Hellevoetsluis	30.04	763.0	30.04	763.0	68.9	20.5	64	e.			2					0	0	lt'ly cloudy	H. van der Brink
Utrecht	30.00	762.0	30.05	763.2	68.9	20.5	52	e.			3		2			0	0		
Sub-series.																			
Batavia, Java	29.89	759.2			78.8	26.0	80	w.	0.5	0.2			8			0.516	13.1		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.38	771.7	30.45	773.3	69.1	20.6	45	s.	7.4	3.3			0			0	0		
Brono	30.48	774.2	30.52	775.2	60.8	16.0	69	sw.			4		3			0	0		
Christiania	30.39	771.9	30.54	775.6	68.4	20.2	58	e.	9	4			4			0	0		
Gjæsvær	30.22	767.6	30.24	768.2	51.4	10.8		wsw.			9		7						
Lodingen	30.38	771.7	30.43	772.9	53.4	11.9	91	wsw.			6		10			0	0	foggy	
PORTUGUESE.																			
Angra, Azores					70.0	21.1	87	nw.	3.1	1.4			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santos.
Funchal, Madeira	29.97	761.3	30.06	763.5	76.3	24.6	71	se.	2.5	1.1			3	nnw.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.00	751.9	29.93	760.3	67.3	19.6	54	ssw.	11.9	5.3			7	wnw.				raining	The Staff.
Ponta Delgada, Azores	30.02	762.6	30.10	764.4	71.2	21.8	70	ne.	14.3	6.4			4	w.		0.453	11.5		
Saint Paul de Loando	29.76	755.8	29.96	760.9	72.3	22.4	86	nw.			2		10			0	0		
San Salvador, Congo	28.11	714.1	29.95	760.7	77.5	25.3	56	nw.			1		7						
Serra da Estrella	25.26	641.7	29.80	758.4	61.2	16.2	33	ese.	6.9	3.1			1			0	0		
RUSSIAN.																			
Akmolinski	28.95	735.3	30.02	762.5	56.1	13.4	62	e.	4	2		0	5 k			0	0		Major K. Lasarew.
Archangel	30.45	773.3	30.47	773.8	50.3	13.5	82	wnw.	9	4		0	8 ks			0	0		Capt. Sselliwerstow
Ashurada	30.20	768.5	30.16	766.1	77.5	25.3	51	nnw.	9	4			9 ks			0	0		
Astrakhan	30.39	772.0	30.32	770.2	68.2	20.1	22	ne.	9	4		0	0			0	0		Capt. Wisganow.
Baku	30.32	770.1	30.27	768.9	68.0	20.0	62	nne.	13	6		0	7 ks			0	0		
Barnaul	29.54	750.2	30.04	763.0	48.4	9.1	63	w.	4	2			9			0	0		Meteorological Obs'y
Bielosersk	30.11	764.6	30.56	776.3	67.8	19.9	62	nw.	2	1		0	2 ks			0	0		
Dorpat	30.40	772.2	30.64	778.3	68.4	20.2	51	ne.	4	2		0	0			0	0		Observatory.
Ekaterinburg	29.31	744.5	30.28	769.0	55.2	12.9	54	n.	9	4			9			0	0		Meteorological Obs'y.
Elissawetgrad	29.98	761.6	30.43	772.8	70.9	21.6	20	e.	11	5		1 c	0			0	0		
Irkutsk	28.39	721.0	30.03	762.7	48.4	9.1	83	nne.	2	1			9			0	0		
Kasalinsk					65.7	18.7	54	w.	4	2	1	0	4 ks						
Kasan	30.15	765.7	30.41	772.4	68.7	20.4	55	nw.	7	3		0	1 n			0	0		Observatory.
Kem	30.43	773.0	30.48	774.3	63.3	17.4	62	w.	22	10		0	7 k			0	0		
Kertch	30.21	767.2	30.23	767.8	68.4	20.2	51	ene.	13	6		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.82	757.3	30.44	773.1	70.2	21.2	24	ne.	2	1		ck	1 k			0	0	light clouds	Observatory.
Kosiov	29.99	761.7	30.48	774.3	67.5	19.7	39	ene.	4	2		0	0			0	0		
Libau	30.50	774.8	30.53	775.4	71.6	22.0	48	ese.			5		0			0	0		E. Quass.
Lugan	30.10	766.1	30.36	771.2	69.8	21.0	23	ne.	22	10			0			0	0		Meteorological Obs'y.
Moscow	30.08	763.9	30.54	775.7	68.9	20.5	48	calm	0	0		0	3 k			0	0		Meteorological Obs'y
Nikolaiev	30.28	769.2	30.35	771.0	73.6	23.1	27	ne.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					52.2	11.2	81	calm	0	0		3 ck	0						Iwanow.
Pekin, China	29.84	757.9	29.98	761.5	69.6	20.9	87	calm	0	0		4 cs	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.71	754.7	30.05	763.3	72.7	22.6	26	w.	2	1		0	7 k			0	0		
Petrozavodsk	30.35	770.8	30.54	775.7	66.6	19.2	56	nw.	11	5		5 ck	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mils. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.96	761.0	30.45	773.3	74.8	23.8	34	se.	18	8		0	1 s			0	0		
Poti	29.99	761.8	30.02	762.6	81.0	27.2	76	ssw.	4	2		0	0			0	0		
St. Petersburg	30.61	777.6	30.64	778.2	67.5	19.7	53	nw.	7	3		0	0			0	0	hazy.	Central Physical Obs'y.
Samarkand	27.61	701.4	30.01	762.3	70.3	21.3	41	calm	0	0		0	0			0	0		
Semipalatinsk	29.46	748.3	30.11	764.9	56.7	13.7	52	calm	0	0			4			0.020	0.5		Major Lasarew
Sevastopol	29.93	760.3	30.14	765.5	80.2	26.8	35	sw.	20	9		3 cs	0			0	0		
Staroi Bykhov	29.97	761.2	30.51	775.0	72 9	22.7	46	ne.	4	2		0	4 k			0	0		
Tashkend Laboratory	28.37	720.6	29.97	761.3	75.7	24.3	31	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.76	730.5	30.13	765.3	74.3	23.5	41	e.	4	2		0	6 ks			0	0		Physical Observatory.
Vernoe	27.53	699.3	29.98	761.5	63.3	17.4	37	ne.	9	4		0	1 k			0.110	2.8		
Viatka	29.61	757.2	30.43	773.0	64.4	18.0	72	nw.	7	3			1			0	0		
Warsaw	29.92	759 9	30.33	770.4	71.4	21.9	52	e.	13	6		0	1 s			0	0		Astronomical Obs'y.
Yeniseisk	29.69	754.2	29.98	761.6	44.6	7.0	54	w.	2	1			2			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.2	73.8	23.2	67	e.	6.3	2.8		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.88	759.0	29.94	760.5	79.5	26.4	49	se.	1.6	0.7		2	0	e.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.5	29.91	759.6	68.4	20.2	36	ne.	3.8	1.7			1			0	0	almost clear.	Domingo Martin.
Madrid, Royal Obs'y	27.76	705 0	29.90	759.4	75.4	24.1	34	sw.	6.3	2.8		3	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.81	757.2	29.95	760.6	81.5	27.5	54	ese.	4.3	1.9		2	3	e.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.15	740.5	29.91	759.8	57.2	14.0	89	s	5.8	2.6				w.	s.	0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.97	735.7	29.82	757.5	74.7	23.7	49	sw.	1.3	0.6			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.7	30.05	763.3	79.7	26.5	84	e.	2.2	1.0		6c;cs	k	nne.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.4	77.5	25.3	91	nnw.	11.0	4.9		4 cs	3 ks		e.	0.965	24.5	foggy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.89	759 1	29.99	761.6	73.0	22.8	68	sw.	9.1	4.1		1	2	sw.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.91	759.8	30.00	762.1	79.9	26.6	83	se.	4.0	1.8		3 cs	5 kn	se.	se.	0.177	4.5	raining	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.50	774.6	30.54	775.6	52.9	11.6	96	s.			2		10			0	0		
Umea	30.52	775 2	30.57	776.4	61.5	16.4	82	sw.			2		2			0	0		
Hernosand	30.56	776.2	30.61	777.5	71.2	21.8	54	sw.			2		5			0	0		
Stockholm	30.43	773.0	30.61	777.5	67.6	19.8	59	ese.			2		1			0	0		
Wisby	30.42	772.7	30.48	774.2	70.2	21.2	53	e.			4		0			0	0		
Sub-series.																			
Upsala	30.51	775.0	30.60	777.2	69.1	20.6	57	ese.	5.8	2.6			1	nw.		0.004	0.1		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.58	725.8	29.98	761.4	63.3	17.4	77	n.			2		10			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.09	764.3	77.7	25.4	62	ne.	13	6.0			7		ne.	0	0		The Observatory.
Valona			30.15?	765.7?	79.7	26.5		se.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.95	760.6	82.9	28.3	63	nw			2		1 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.96	684.8			82	27.8	56	calm			0		4 k		sw.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.03	762.7	30.11	764.8	64.5	18.1	92	s.	4	1.8			10n;fg			0.41	10.4	light rain	J. O. Barnes.
Alpena, Michigan	29.46	748 3	30.11	764.8	54	12.2	86	sw.	2	0.9		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.96	634.0	29.76	755.9	40	4.4	67	e.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.10	688.3	29.95	760.7	44	6.7	68	sw.	11	4.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.0	30.17	766.3	69.0	20.6	73	se.	4	1.8		4 k	0	s.		inap.	inap.	clear	Edward A. Beals.
Atlantic City, New Jersey	30.12	765.0	30.13	765.3	69	20.6	93	calm	0	0		9 cs	fg.			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	75.0	23.9	90	calm	0	0			10 s		sw.	0.14	3.6	cloudy	D. J. Young.
Baltimore, Maryland	30.10	764.5	30.15	765.8	67	19.4	84	e.	3	1.3		7 cs	fg.	w.		0	0	fair	Geo. W. Feiger.
Barnegat City, New Jersey	30.11	764.8	30.13	765.3	68.0	20.0	100	w.	4	1.8			fg.			0.02	0.5	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.79	756.6	29.81	757.2	45.0	7.2	96	s.	2	0.9			fg.			0.2?	5.?	foggy	Geo. Chernick.
Bennett, Fort, Dakota	28.46	722 9	30.05	763.3	50.0	10.0	86	ne.	1	0.4		2 c	2 s	nw.		inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.98	761.5	49	9.4	83	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.22	716.8	30.02	762.5	49.5	9.7	93	nw.	3	1.3		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	65	18.3	92	sw.	9	4.0			10 s		sw.	0.16	4.1	cloudy	J. T. Elker.
Boise City, Idaho	27.16	689.9	29.93	760.2	48	8.9		w.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.95	760.7	30.10	764.5	63.5	17.5	100	sw.	2	0.9			fg			0.04	1.0	dense fog	O. B. Cole.
Brownsville, Texas	29.80	756.9	29.86	758.4	75 0	23.9	97	calm	0	0		0	3 ks		s.	0	0	clear	E. C. Imlay.
Buffalo, New York	29.41	747.0	30.14	765.5	58.8	14.9	97	sw.	5	2.2			10s;fg		sw.	0.04	1.0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.05	712.5	30.03	762.7	42	5.6	100	s.	4	1.8		0	0			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.72	754.9	30.12	765 0	62.6	17.0	92	sw.	4	1.8		0	fg.			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.76	755.9	29.96	761.0	55.8	13.2	95	se.	3	1.3			10 s			0	0	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	71.0	21.7	90	s.	0	2.7			10 ks		s.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.12	765.0	30.14	765.5	69.0	20.6	91	calm	0	0			9 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.09	738 9	29.77	756.1	50	10.0	100	calm			0		fg.			0	0	light fog	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	77.5	25.3	88	ne.	7	3.1		0	9 s		e.	0.02	0.5	cloudy	G. W. Davis.
Charleston, S. Carolina	30.09	764.3	30.14	765.5	77.0	25 0	97	e.	5	2.2		0	8 s		e.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.16	766.1	70.0	21.1	84	nw.	3	1.3			10 n		w.	0.03	0.8	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.16	766.1	63.5	17.5	92	calm	0	0		4 cs	fg.			0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.02	762.5	36.8	2.7	78	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.37	746.0	30.06	763.5	63.0	17.2	84	se.	4	1.8		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.13	765.3	30.15	765 8	72	22.2	100	s.	5	2.2		0	7k;fg			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.48	748.8	30.13	765.3	66.0	18.9	84	ne.	1	0.4		6 k;c	0	se.		0	0	fair	L. Dunne.
Cleveland, Ohio	29.44	747.8	30.16	766.1	59.3	15.2	93	e.	3	1.3			fg.			0	0	dense fog	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.28	743.7	30.12	765.0	63	17.2	84	s.	1	0.4		6 k	0	sw.		0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	27.99	710.9	29.89	759.2	69.4	20.8	97	s.	9	4.0			10 n			0.06	1.5	light rain	J. McGlone.
Custer, Fort, M. T.	26.91	683.5	30.03	762.7	43	6.1	76	e.	10	4.5		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.38	746.2	30.03	762.7	60	15.6	81	e.	4	1.8		6ck;cs	hz.	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.16	739.1	29.86	758.4	62	16.7	78	se.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.21	716 5	29.96	761.0	49.5	9.7	56	ne.	8	3.6		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.48	647.2	30.04	763.0	42	5.6	86	n.	2	0.9		0	0			0.04	1.0	clear	F. Des Willson.
Delaware Breakwater, Del	30.13	765.3	30.15	765.8	68	20.0	100	nw.	1	0.4		8 k	fg.			inap.	inap.	cloudy	T. S. Townsend.
Denver, Colorado	24.87	631.7	29.98	761.5	50.5	10.3	74	n.	4	1.8			10 s			0.44	11.2	threatening	F. M. Neal.
Des Moines, Iowa	29.11	739.4	30.00	762.0	61	16.1	84	s.	2	0.9			10 s		s.	0.05	1.3	cloudy	F. W. Conrad.
Detroit, Michigan	29.46	748.3	30.15	765 8	64.0	17.8	93	e.	1	0.4			10 n			inap.	inap.	light rain	E. R. Brace.
Dodge City, Kansas	27.41	696.2	29.96	761.0	53	15.0	93	nw.	8	3.6			10 s		se.	0.58	14.7	cloudy	J. H. Bryce.
Dubuque, Iowa	29.33	745.0	30.03	762.7	61.5	16.4	78	calm	0	0		0	8ks;fg		s.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.21	741.9	29.95	760 7	57	13.9	80	calm	0	0		0	5ks;hz			0	0	fair	N. B. Conger.
Eastport, Maine	30.04	763.0	30.11	764 8	55.0	12.8	93	sw.	2	0.9			fg.		sw.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.23	691.6	29.92	760.0	57	13.9	69	ne.	8	3.6		9 k	0	ne.		1.48	37.6	cloudy	J. C. Rickli.
El Paso, Texas	26.17	664.7	29.82	757.4	69.0	20.6	53	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.45	748 0	30.16	766.1	60	15.6	93	s.	2	0.9			fg			0.28	7.1	dense fog	C. A. Shaw.
Escanaba, Michigan	29.42	747.3	30.08	764.0	51.0	10.6	93	calm	0	0		0	8 s			0	0	cloudy	George Heathcote.
Galveston, Texas	29.92	760.0	29.96	761.0	81	27.2	74	se.	4	1.8		0	5 ks		s.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.41	747.0	30.07	763.8	57.0	13.9	96	e.	5	2.2		4 cs	fg.	ne.		0	0	fair	Wm. H. Fallon.
Grant, Fort, Arizona	25.10	637.5	29.70	754.4	57.1	13.9	23	n.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	75.0	23.9	97	sw.	3	1.3		4 c	hz.	sw.		0	0	fair	R. M. Crawford.
Helena, Montana	25.75	754.0	29.92	760.0	54	12.2	57	ne.	4	1.8		0	0			0	0	clear	I. H. Jones.

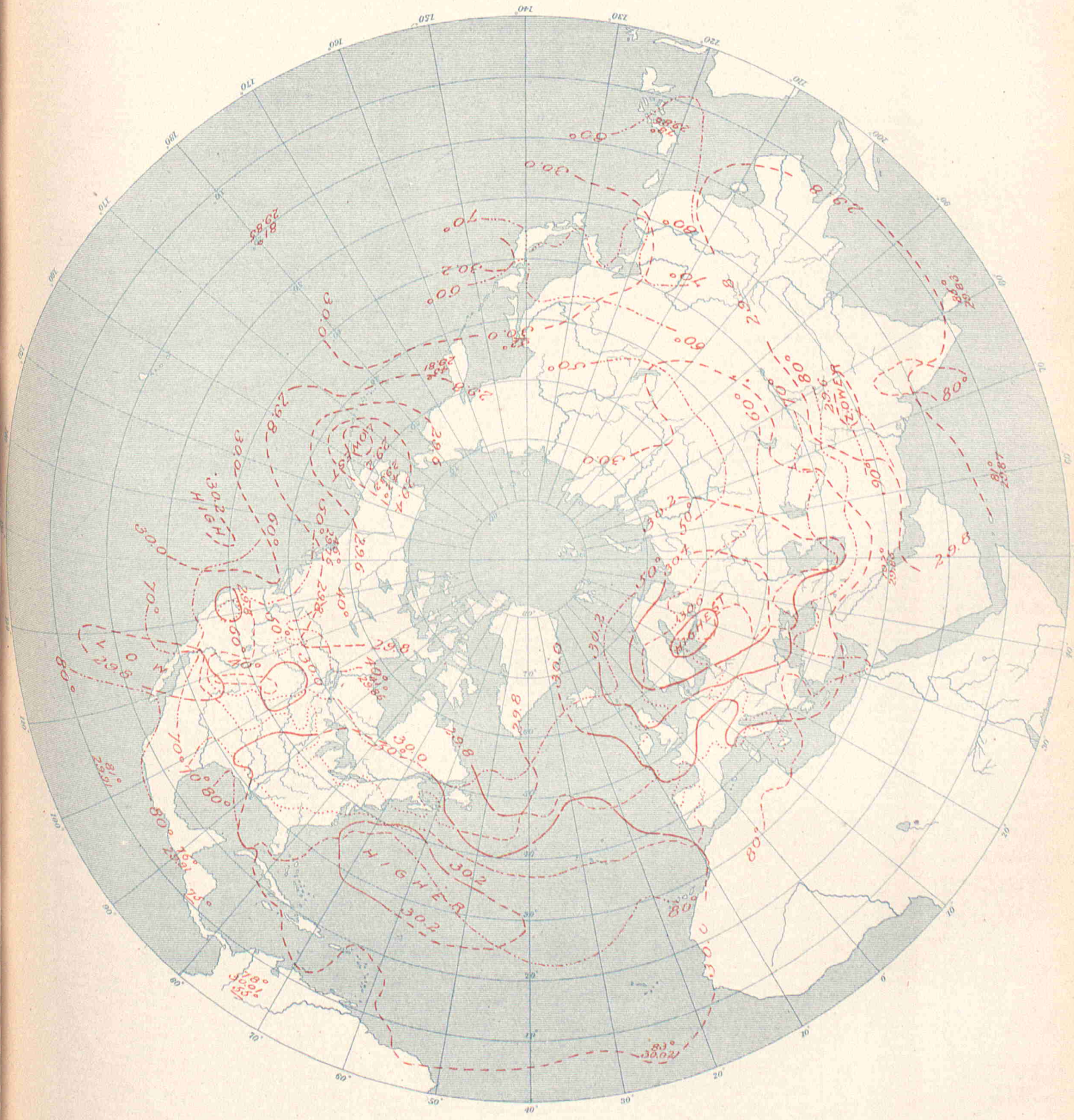
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.58	725.9	29.96	761.0	56.7	13.7	87	nw.	8	3.6			10 ks		nw.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.09	764.3	61.4	16.3	87	calm	0	0		0	2 ks			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.88	758.9	29.91	759.7	79.0	26.1	89	se.	7	3.1		0	1 ks		s.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.08	764.0	30.12	765.0	77.0	25.0	90	se.	3	1.3		2 cs	7 s		se.	0.22	5.6	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.37	746.0	30.02	762.5	65.0	18.3	63	s.	3	1.3		4 cs	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	82.0	27.8	80	se.	6	2.7			10 s			0	0	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	73	22.8	97	sw.	6	2.7		4 k	fg.	sw.		0.02	0.5	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.16	740.7	30.18	766.6	64	17.8	92	sw.	1	0.4		2 c	3 s			inap.	inap.	fair	J. A. Cody.
La Crosse, Wisconsin	29.23	742.4	30.00	762.0	62	16.7	78	s.	6	2.7			10 s		s.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.14	740.1	30.02	762.5	66	18.9	84	calm	0	0			10 n			0.12	3.0	thund'r st'm	T. S. Outram.
Lewiston, Idaho	29.14	740.1	29.97	761.2	49.0	9.4	77	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.04	763.0	63	17.2	93	calm	0	0		3 cs	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.49	749.0	29.88	758.9	61.5	16.4	93	ne.	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.53	750.0	30.08	764.0	66	18.9	84	calm	0	0		0	sk.		sw.	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.46	748.3	30.14	765.5	68.5	20.3	90	sw.	1	0.4			10 s			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.45	748.0	30.10	764.5	55.0	12.8	86	s.	1	0.4		3 cs	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	76.5	24.7	98	se.	4	1.8		8 c	1 ks	w.	s.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.52	648.2	29.92	760.0	45	7.2	41	w.	12	5.4		0	0			0.06	1.5	clear	F. Burke.
Marquette, Michigan	29.33	745.0	30.05	763.3	57.0	13.9	67	calm	0	0		8 k	0			0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.08	764.0	68	20.0	78	se.	4	1.8		5 cs	fg.	w.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.33	745.0	30.07	763.8	57	13.9	86	e.	4	1.8		7 ck	1 s	w.		0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.02	762.5	30.06	763.5	73	22.8	90	n.	6	2.7		1 c	0	n.		0.07	1.8	clear	H. U. Jones.
Montgomery, Alabama	29.88	758.9	30.11	764.8	68	20.0	92	calm	0	0		1 cs	fg.			inap.	inap.	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.94	735.1	29.93	760.2	60	15.6	75	n.	12	5.4			10 s			inap.	inap.	cloudy	H. Bessant.
Mt. Washington, N. H.	23.99	609.3	30.14	765.5	31.0	10.6	93	e.	2	0.9		0	5s;fg			0.40	10.2	fair	S. W. Beall.
Nashville, Tennessee	29.56	750.8	30.13	765.3	66.0	18.9	84	e.	1	0.4		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.00	762.0	30.11	764.8	65.5	18.6	93	s.	2	0.9			10 s		s.	0.11	2.8	cloudy	J. H. Sherman.
New London, Connecticut	30.09	764.3	30.14	765.5	64	17.8	100	calm	0	0			10 s			0.06	1.5	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.02	762.5	75.0	23.0	85	e	5	2.2		0	0			0	0	clear	M. Herman.
New York, New York	29.96	761.0	30.13	765.3	66.2	19.0	93	calm	0	0		4 cs	3 s;fg			0.04	1.0	fair	H. J. Penrod.
Norfolk, Virginia	30.13	765.3	30.16	766.1	70.5	21.4	97	s.	4	1.8			10 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.13	689.1	30.01	762.2	57.6	14.2	92	nw.	7	3.1			10 n			0.03	0.8	light rain	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	50.5	10.3	90	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.81	731.8	29.98	761.5	64.8	18.2	89	s.	6	2.7			10 s		s.	0.35	8.9	cloudy	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.77	756.1	30.09	764.3	60.5	15.8	96	w.	6	2.7		7ck;cs	10 s		se.	0.09	2.3	cloudy	J. G. Linsley
Palestine, Texas	29.48	748.8	30.03	762.7	69.0	20.6	90	e.	7	3.1		c	0		e.	0	0	fair	L. M. Pindell.
Pensacola, Florida	29.03	762.7	30.06	763.5	75.3	24.1	80	e.	12	5.4			4 s			0.02	0.5	fair	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.16	766.1	68	20.0	100	s.	1	0.4			fg.			0.01	0.3	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.88	454.1	29.86	758.4	23	— 5.0	100	ne.	10	4.5			10 n		ne	0.59	15.0	heavy snow.	H. Hall.
Pittsburg, Pennsylvania	29.37	746.0	30.16	766.1	64.0	17.8	93	calm	0	0			fg.			inap.	inap.	dense fog	G. C. Schaeffer.
Poplar River, Montana					40	9.4	56	nw.			1	0	0			0.10	2.5	clear	M. J. Wright, jr.
Port Huron, Michigan	29.45	748.0	30.12	765.0	58.2	14.6	93	se.	1	0.4			10 s		s.	inap.	inap.	cloudy	M. H. Perry
Portland, Maine	30.03	762.7	30.08	764.0	60.0	15.6	93	n.	2	0.9		0	10n;fg			0.09	2.3	light rain	W. W. Eichelberger.
Portland, Oregon	29.89	759.2	29.96	761.0	53.0	11.7	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.71	627.6	29.81	757.2	43	6.1	58	w	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.09	764.3	30.12	765.0	64	17.8	93	sw.	5	2.2			10s:fg			0.02	0.5	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.42	747.3	29.76	755.9	62	16.7	37	n.	2	0.9		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.74	745.2	29.90	759.4	50	10.0	74	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.68	753.9	29.75	755.6	65.0	18.3	54	s.	8	3.6		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.49	749.0	30.08	764.0	61.7	16.5	85	s.	3	1.3			sk.			0	0	dense smoke	J. H. Weber.
St. Michael, Fort, Alaska	29.28	743.7	29.32	744.7	41.7	5.4	80	ne.	9	4.0			10 s		ne.	0.04	1.0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.10	739.1	29.95	760.7	61.0	16.1	78	s.	5	2.2		5 k	4 s	sw.		0.02	0.5	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.08	738.6	29.95	760.7	48.5	9.2	96	nw	3	1.3		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.70	652.8	29.95	760.7	51	10.6	43	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.77	756.1	29.84	757.9	63.0	17.2	87	ne.	3	1.3			10 s			0	0	cloudy	F. R. Day.
Sanford, Florida	30.02	762.5	30.07	763.8	74.5	23.6	94	calm	0	0		10 c	0			0.68	17.3	cloudy	J. B. Marbury.
Sandusky, Ohio	29.48	748.8	30.15	765.8	61	16.1	84	se.	3	1.3		0	fg.			0	0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.11	764.8	30.14	765.5	67.0	19.4	73	s.	3	1.3		8 c	0			0.02	0.5	cloudy	B. A. Blundon.
San Francisco, California	29.73	755.1	29.80	756.9	55	12.8	93	sw.	11	4.9		0	fg.		sw.	0	0	fair	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	77	25.0	90	se.	5	2.2			10 n		se.	inap.	inap.	light rain	H. W. Ford.
Shaw, Fort, Montana	26.20	667.8	29.90	759.4	54	12.2	40	sw.	20	8.9		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	68.3	20.2	90	s.	1	0.4		4 c	0	nw.		0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.71	729.2	29.93	760.2	75	23.9	64	s.	12	5.4		0	8 ks		sw.	0	0	cloudy	W. M. Mattingly
Sitka, Alaska	29.70	754.4	29.76	755.9	46.1	7.8	85	e.	9	4.0			10 n		e.	0.58	14.7	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.03	762.7	68.4	20.2	70	e.	2	0.9		0	sk.			0	0	dense smoke	J. B. Campbell.
Smithville North Carolina	30.14	765.5	30.18	766.6	75.5	24.2	78	s	1	0.4		5 c	1 k	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.05	763.3	41.8	5.4	92	calm	0	0		4 c	4 s			0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.40	746.7	30.07	763.8	59	15.0	75	s.	7	3.1		1 c	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	26.90	683.2	29.86	758.4	68	20.0	90	se.	26	11.6		6 cs	0			4.43	112.5	fair	Louis Dorman.
Thomas Camp, Arizona					58.5	14.7	48	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.45	748.0	30.13	765.3	63	17.2	90	e.	3	1.3			fg.			0	0	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.08	738.6	29.10	739.1	46	7.8	76	sw.	40	17.9			10 ks		sw.	1.37	34.8	threatening.	Samuel Applegate.
Verde, Fort, Arizona					57	13.9	20	n			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.82	757.4	30.07	763.8	68.8	20.4	88	se.	6	2.7		1 c	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.05	763.3	30.16	766.1	65.1	18.4	92	s.	1	0.4		6 cs	4s;fg			0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	29.90	759.4	55	12.8	83	n.	5	2.2			10 s		n.	0.04	1.0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	75.0	23.9	90	calm	0	0		7 cs	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.65	727.7	29.04	760.5	59.6	15.3	93	calm	0	0		2 ck	0	s.		1.29	32.8	clear	E. H. Thompson.
Yuma, Arizona	29.60	751.8	29.74	755.4	73.5	23.1	26	n.	4	1.8		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw			2		9 n		w.	0.21	5.3	drizzling	W. H. Jackson.
Bogota, U. S. C.					55.0	12.8	72	calm	0	0		1 k	3ks;s	w.	w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.	22.04	559.8			83.0	28.3	72	se.	8	3.6			10 s		e	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.			29.90	761.7	81	27.2	78	se.			3	5 ck	5 k	e.		0.140	3.6		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	30.01	762.2	30.01	762.2	78	25.6	94	s.			1	7 ck	3 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	29.45	748.0	30.01	762.2	75	23.9	90	ne.			1	6 ck	3 ks	se.	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory B. A.	29.79	756.7	29.86	758.4	41.0	5.0	91	w.	10	4.5		1 c	2 s	sw.	w.	0	0	fair	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.						Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.		Rainfall or melted snow in the past 24 hours.		Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	30.10	764.5	80	26.7	74	nnw.			3		8	nnw.				sm'h		d. clouds.
H M. S. Coquette, N. 37° 47′, E. 20° 55′	30.05	763.3	84	28.9		e.			1		3	ene.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.21	767.3	80.5	26.9	82	ese.			1		3	ese.						d. clouds.
H. M. S. Griffon, N. 28° 14′, W. 72° 30′	30.18	766.6	82	27.8	91	ene.			4		2	e.				2	e.	showery.
H. M. S. Iris, off Port Said, Egypt	29.98	761.5	78	25.6	73	nnw.			3		1							blue sky.
H. M. S. Tenedos, N. 47° 30′, W. 56° 40′	29.94	760.5	58	14.4	82	w.			3		0					1	wnw.	blue sky.
H. M. S, Tyne, N. 48° 33′, W. 8° 38′	30.01	762.2	60	15.6	82	e			4		6	e.				3	w.	d. clouds.
U. S. Navy Yard, Portsmouth, N.H.*	30.04	763.0	62	16.7	94	calm	0	0			10		w.	0.2	5.			cloudy.
U. S. S. Alliance, N. 44° 35′, W. 59° 39′	30.06	763.5	58	14.4	88	wnw.			4		1		w.	0	0	sm'h	nw.	clear.
U. S. S. Galena, Brooklyn, N.Y	30.13	765.3	67	19.4	100	wsw.			1		8		wsw.			sm'h		fair.
U. S. S. Jamestown, Funchal, Madeira Islands	30.05	763.3	75	23.9	86	ene.			2		5					sm'h		fair.
U. S. S. Kearsarge, N. 40° 19′, W. 22° 39′	30.09	764.3	68	20.0	69	nne.			2		5		ne.			sm'h		fair.
U. S. S. Lancaster. Port Mahon. Spain	29.89	759.2	72	22.2	95	nne.			1		2		calm			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass	30.11	764.8	63	17.2	100	sw.			2		10		sw.					overcast.
U. S. S. Powhatan, N. 46° 10′, W. 53° 53′†	29.91	759.7	59	15.0	94	nnw.			4		0							hazy.
U. S. S. Quinnebaug, N. 36° 48′, W. [illegible]	30.12?	765.0?	76	24.4	64	ene.			3		2		ene			sm'h	e.	fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.18	766.6	66	18.9	94	sw.			2		8		sw.	0	0	sm'h		cloudy.
U. S. S. Swatara, Picton, N. S	30.08	764.0	60	15.6	70	w.			1		0			0	0	sm'h		hazy
U. S. S. Vandalia, Arichat, Madame Island, N.S	30.03	762.7	60	15.6	82	nw.			1		0							clear.
U. S. S. Yantic, St. Johns, N.F	29.84?	757.9?	58	14.4	88	nw.			2		8							cloudy.
S. S. British Princess, N. 47° 52′, W. 41° 24′†	29.80	756.8	60	15.6		wsw.			2		4		w.	0	0	sm'h	ne.	
S. S. Lord Gough, N. 50° 02′, W. 42° 00′	29.69	754.1	54	12.2		wsw.			4		10		sw.	shr's	shr's	mod.	sw.	cloudy.
S. S. Ohio, N. 51° 24′ W. 15° 18′†	29.92	760.0	59	15.0	88	s.			3		10		s.	2 h'r	2 h'r			cloudy.
S. S. Grecian, Glasgow, Scotland	30.21	767.3	61	16.1	77	se.			2		0			0	0			hazy.
S. S. Polynesian, N. 53° 05′. W. 50° 04′	29.71	754.6	52	11.1		ne			3		10			0	0	mod.	n.	overcast.
S. S. Prussian, N. 51° 16′. W. 39° 48′	29.80	756.9	56	13.3		sse.			3		10		sw.				ne.	drizzling.
S. S. Alvo, Aux Cayes, Porto Rico, W.I *	29.92?	760 0?	74	23.3		ne.			2		10		calm	5 h'r	5 h'r	long	s.	overcast.
S. S. Avilla, Arroyo, Porto Rico, W.I*†	30.03	762 7	84	28.9		e.			3		0			0	0	r'gh	e.	
S. S. Australia, N. 41° 56′, W. 38° 17′*†	30.04	763.0	62	16.7		wsw.			5		5		wsw.	1 h'r	1 h'r	h'vy	wnw.	squally.
S. S. Devonia, N. 45° 34′. W. 50° 00′ *†	29.88	758.9	58	14.4		sw.			3		8		w.			short	wsw.	cloudy.
S. S. Dorian, N. 42° 54′, E. 6° 20′	29.90	759.4	70	21.1		e.			7		10		e.	shr's	shr's	r'gh	e.	overcast.
S. S. Furnesia N. 46° 29′, W. 35° 05′†	29.96	761.0	59	15.0	?	se.			3		5		se.	0	0	sli't	ne.	
S. S. Carroll, Port Hawkesbury, C. B*†	30.15?	765.8?	84	28.9	53	n.			2		0			0	0			clear
S. S. Landaff City, N 51° 33′, W. 10° 45′†	30.08	764.0	60	15.6		se.			4		9		e.	6 h'r	6 h'r	long	nw.	foggy
S. S. Cephalonia, N. 51° 23′, W. 15° 27′	29.90	759.4	59	15.0	94	sse.			4		10		wsw.	0	0	sli't	wnw.	overcast.
S. S. Bothnia, N. 40° 35′, W 63° 38′	30.19	766.8	86	30.0	88	w.			1		8		w.	0	0	sm'h	w.	gloomy.
S. S. France, N. 46° 16′, W. 43° 34′†	29.79?	756.7?	59.0	15.0		sw.			5		10		w.	0	0	sm'h	nw.	fair.
S. S. Arizona, N. 46° 09′, W. 53° 01′	29.92	760.0	55	12.8		nw.			3		3		n.	0	0	mod.	nw.	hazy
S. S. Wyoming, N. 47° 11′ W. 43° 42′	29.84	757.9	54	12.2		sw.			4		8		w.			mod.	nne.	sprinkling.
S. S. Bohemia, New York, N.Y	30.10	764.5				sw.			2		6		sw.	0	0			fair.
S. S. Frisia, N. 46° 00′ W. 44° 02	29.87	758.7				w.			2		3		nw.	4 h'r	4 h'r	r'gh	nw.	squally.
S. S. Gellert, N. 40° 32′, W. 69° 55′	30.16	766.1	66	18.9	79	s.			2		10		se.	0	0	sm'h	s.	covered.
S. S. Silesia, Elbe river, Germany			61.5	16.4		e.			3		5?		e.	0	0			cloudy ?
S. S. Westphalia, New York, N.Y	30.12	765.0	70	21.1	85	sw.			2		5		sw.	0	0			fair.
S. S. Rhaetia, N. 44° 23′ W. 51° 47′*	29.89	758.9	58	14.4		sw.			3		10		wsw.	0	0	sm'h		light fog.
S. S. Nessmore, N. 51° 12′, W. 9° 00′			64	17.8	83	wsw.			3		10		wsw.	24 h'r	24 h'r	long	nnw.	misty.
S. S. Bulgarian, N. 51° 39′, W. 8° 10′*	30.16?	766.1?				ese.			3		10		ese.	1 h'r	1 h'r			dense haze.
S. S. Archimedes, N. 40° 26′, W. 69° 58′	30.07?	763.8?				calm			0		9		wsw.	0	0	light	s.	dense fog.
S. S. Rosse, N. 51° 40′, W. 7° 45′ *	30.16	766.1	61	16.1		ese.			3		8		ese.	0	0	sm'h		foggy.
S. S. Teniers, N. 35° 48′, W. 16° 19′	30.12	765.0	72.6	22.6	79	sw.			2	c	4 k	sw.	nnw.	0	0	con.	wsw.	blue sky.
S. S. Sirius, N. 51° 48′. W. 5° 58′	30.07?	763.8?				ese.			2		5		ese.	0	0	sm'h		hazy.
S. S. Rio Grande, Galveston, Texas †	29.95	760.7	86	30.0		s.			2		2		se.	0	0			fair.
S. S. Chalmette, N. 24° 57′ W. 83° 35′†	30.06	763.5	81	27.2		e.			4		9		e.	5 h'r	5 h'r	mod.	e.	cloudy.
S. S. Lone Star, N. 34° 28′, W. 75° 18′ †*	30.29?	769.4?	81	27.2		calm			0		2		calm	0	0	small	e.	clear.
S. S. Alleghany, N. 38° 38′, W. 75° 00′†	30.21	767.3	70	21.1		sw.			2		2		sw.			long	s.	hazy.
S. S. Archimede, Messina, Sicily†	29.91	759.7	82	27.8		sse.			4		4		sse.	0	0			fair.
S. S. City of Merida. N. 38° 05′, W. 74° 33′*†	30.10	764.5	75	23.9		sw.			1		10		sw.	0	0	mod.	se.	cloudy.
S. S. City of Washington, N. 22° 55′, W. 84° 56′ *†	30.10?	764.5?	80	26.7		ne.			3		2		ne.	0	0	light	ne.	fine.
S. S. Cienfuegos, N. 33° 30′, W. 74° 42′*	30.17	766.3	82	27.8		s.			4		3		s.	0	0	small	sse.	clear.
S. S. Denmark, N. 45° 40′, W. 41° 45′†	29.95	760.7	62	16.7		wsw.			6		8		wsw.	4 h'r	4 h'r	sli't	wsw.	threatening.
S. S. Egypt, N. 41° 46′ W. 61° 50′	30.16	766.1	70	21.1		w.			4		10		w.	0	0	mod.	w.	cloudy.
S. S. Greece, N. 49° 45′, W. 9° 47′	29.99	761.7	65	18.3	100	se.			4		8		calm	0	0	h'vy	w.	cloudy.
S. S. Helvetia, Liverpool, Eng			60	15.6	100	se.			3		5		se.	0	0			fair
S. S. The Queen, N. 51° 11′, W. 14° 57′	29.88	758.9	55	12.8		s.			6		10		ssw.			mod.	sw.	rainy.
S. S. America, N. 49° —′, W. 31° —′*	30.01	762.2	63.5	17.5	62	e.			1		4		ne.	0	0	sm'h	nw.	fair.
S. S. Donau, N. 41° 19′ W. 64° 02′	30.22	767.6				calm			0		10					sm'h	e.	foggy.
S. S. Elbe, N. 49° 35′, W. 6° 55′	30.08	764.0	64.4	18.0	90	e.			3		4		e.	0	0	long	nw.	hazy.
S. S. Habsburg, N. 48° 30′, W. 38° 15′	29.87	758.7				ssw.			4		8		ssw.	7 h'r	7 h'r	mod	ssw.	sprinkling.
S. S. Hermann, N. 50° 16′, W. 2° 48′	30.08	764.0	69.8	21.0	86	calm			0		8		ne.	0	0	mod	ne.	cloudy.
S. S. Main, N. 50° 02′, W. 24° 20′	29.97	761.2	59.0	15.0		wnw.			2		3		nw.	9 h'r	9 h'r	mod.	nw.	clear.
S. S. Oder, N. 41° 02′, W. 66° 07′	30.18	766.6	69.8	21.0		s.			1–2		8		wsw.	0	0	sm'h	s.	foggy.
S. S. Ohio, N. 37° 03′, W. 75° 31′	30.18	766.6				s.			3		3		s.	0	0	light	s.	clear.
S. S. Strassburg, N. 51° 37′ E 2° 03′	30.06	763.5	81.0?	27.2?		nne.			3		1		nne.	0	0	1	nne.	clear.
S. S. Werra, N. 41° 20′. W. 66° 01′	30.15	765.8	68.9	20.5							10		w.	0	0	sm'h		hazy.
S. S. Weser, N. 46° 14′ W. 27° 19′	30.06	763.5				nw.			2		2		nw.	0	0	long		clear.
S. S. City of Augusta, New York, N.Y†	30.08	764.0				sw.			3		5		w.	0	0			smoky
S. S. Muriel, St. Thomas, W.I	29.97	761.2	85	29.4		ene.			3		0			0	0	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic*†	30.18	766.6	82	27.8		ese.			1		1		calm	0	0			clear.
S. S. Nederland, N. 42° 24′, W. 62° 32′			64	17.8	94	wsw.			2		10		w.	4 h'r	4 h'r	sm'h		foggy.
S. S. Rhynland, N. 49° 05′ W. 36° 19′	29.86	758.4	56	13.3	81	sw.			4		2		ssw.	0	0	high	w.	clear.
S. S. Pennland, Antwerp, Belgium	30.03	762.7	67	19.4	95	e.			2		0			0	0			clear.
S. S. Switzerland, N. 48° 45′. W. 40° 27′*†	29.83	757.7				sw.			2		10		sse.	3 h'r	3 h'r	mod	nne.	cloudy.
S. S. Vaderland, Antwerp, Belgium			68	20.0		ene.			2		3		e.	2 h'r	2 h'r			squally.
S. S. Waesland, New York, N.Y	30.12	765.0	68	20.0		wsw.			2		8		w.	0	0			cloudy.
S. S. Zeeland, N. 45° 47′. W. 46° 36′ *†	29.85	758.2	50	10.0		wsw.			5				wsw.	8 h'r	8 h'r	h'vy	sw.	cloudy.
S. S. P. Caland, N. 41° 00′, W. 69° 00′	30.17	766.3	65.8	18.8	95	se.			1		10		wsw.					foggy.
S. S. W. A. Scholten, Rotterdam, Holland	29.96?	761.0?	59.0	15.0	100	e.			4		7		e.	0	0			fair.
S. S. Valencia, N. 35° 48′, W. 73° 19′†	30.26	768.6	82	27.8	83	w.			3		5		nw.	0	0	mod.	se.	fair.
S. S. Caracas, Curacoa, W.I*†	30.00	762.0	83	28.3	87	se.			3		8		ese.	0	0	sm'h		hazy.
S. S. State of Indiana, N. 40° 30′ W. 69° 30′*†	30.10	764.5	67	19.4		s.			2		4		sw.	0	0	sm'h		foggy.
S. S. State of Nevada, N. 53° 43′. W. 24° 53′ †	29.88	758.9	52	11.1		n.			2		0			0	0	mod	n.	clear.
S. S. Thingvalla, Swinemunde, Prussia†	30.31	769.9	63.5	17.5		e.			3		4		e.	0	0			fair.
S. S. Romano, Hull, Eng*†	30.05?	763.3?				ene.			2		7		e.					
S. S. Salerno, N. 40° 13′, W. 68° 46′ *†	30.25?	768.3?	67	19.4		calm			0		10			0	0	sm'h		hazy.
S. S. Oregon, N. 54° 06′, W. 46° 46′	29.76	755.9	49	9.4		ne.			1		10		wsw.			long	ne	cloudy.
S. S. Texas, N. 56° 17′, W. 13° 27′*†	29.96	761.0	58	14.4	88	s.			4		10		ssw.	0	0	high	ssw.	overcast.
S. S. Daniel Steinmann, N. 49° 29′ W. 80 56′*†	30.02	762.5	66	18.9		ene.			2		0			0	0	long	w.	hazy.
S. S. Saxon, Boston Light, Mass†	30.17	766.3				calm			0					0	0			dense fog.
S. S. Britannic, N. 41° 59′, W. 62° 03′†	30.22	767.6	60?	15.6?		w.			2		10		w.	3 h'r	3 h'r	sm'h		drizzling.
S. S. Celtic, Liverpool, Eng†	30.30	769.6	65	18.3	78	ne.			3		5?		ne.	0	0	sm'h		clear.
S. S. Germanic, N 49° 27′, W. 28° 08′ *†	30.00	762.0	56	13.3		n			1		4		ne.	1 h'r	1 h'r	light	nnw.	fair.
S. S. Republic, N. 51° 24′, W. 23° 28′ *†	29.96	761.0	55	12.8	87	nw.			4		3		nw.	4 h'r	4 h'r	mod.	nw.	d. clouds.
S. S. Amsterdam, N. 49° 27′, W. 28° 51′†	29.99	761.7	53.6	12		e.			3								nw.	fair

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Algiers, N. 34° 35', W. 76° —'*†	30.25	768.3				wsw.			1								ne.	fair.
S. S. City of Alexandria, Vera Cruz, Mexico*†	29.80	758.4	78	25.6		sw.			2							small	ne.	raining.
Bk. Arda, N. 53° 03', W. 5° 07'†	30.16	766.1				ne.			1		1		ne.	0	0			clear.
Bk. Alpheus Marshall, N. 36° 54', W 58° 32'*†	30.21	767.3	78	25.6	91	wnw.			3		8		wnw.	light	light	sm'h	wnw.	cloudy.
Bk. Ariadne, Staten Island, N. Y	30.14	765.5	69	20.6	85	ese.			1		2		wsw.	5 h'r	5 h'r			clear.
Schr. Arthur Burton, Boston, Mass†	30.11	764.8				calm			0		fg.		calm	2 h'r	2 h'r	sm'h		drizzling.
Schr. Abbie H. Gheen, N. 39° 22', W. 74° 25'†	30.17	766.3	70	21.1		calm			0									cloudy.
S. S. Antonio Lopez, N. 29° 35', W. 51° 09'	30.28	769.1	80	26.7	78	ene.			2		2			0	0	mod.	ese.	clear.
Bk. Aquidneck, N. 37° 56', W. 73° 33*†	30.20	767.1	78	25.6		sw.			2				sw.	0	0	light	ese.	foggy.
Bgt. Achsah, N. 32° 07', W. 63° 08'†	30.23	767.8	84	28.9		ene.			2		1		ene.	0	0	mod.	se.	clear.
Bk. Aureola, N. 12° 04', W. 26° 57' †	29.90?	759.4?	94?	44.4?		nw.			4		8		nw.	2 h'r	2 h'r	mod.	s.	squally.
Bk. Adelaide, N. 22° 37', W. 46° 16' *†	30.15	765.8				ene.			4		1		ene.	1 h'r	1 h'r	mod.	e.	clear.
Bg. Belle of the Bay, N. 30° 00', W. 75° 00'†	30.15	765.8				se.			4		4		se.	light	light	sm'h	se.	fair.
S. S. Burswell, Falmouth, Eng*†	30.18	766.6	63	17.2		ene.			3		5		ene.	0	0	sm'h		foggy.
S. S. Cannonbury, Fijardo Porto Rico, W. I*†	30.00?	762.0?				ne.			1		4		ne.	2 h'r	2 h'r	sm'h		showery.
Bk. Celestina, Génoa, Italy*†	30.04	763.0				n.			4		6		n.	0	0			fair.
Bk. Ceylon, N. 39° 29', W. 66° 38'†	30.28	769.1	80	26.7	74	wsw.			4		7?		wsw.	0	0	long	e.	overcast?
Schr. C. R. Flint, N. 34° 55', W. 63° 15'†	30.27	768.8	85	29.4		w.			1		2		sw.	0	0	mod.	w.	clear.
Bk. Cato, N. 36° 35' W. 2° 30' †	29.99	761.7				e.			2		1		w.					clear
Bk. Don Justo, N. 59° 05', W. 14° 40'						wsw.			5				s.	3 h'r	3 h'r	long	wnw.	cloudy.
Bg. Daphne, N. 38° 09', W. 73° 38' *†	30.30?	769.6?	72	22.2		ssw.			2		fg.		ssw.	0	0	sm'h	w.	foggy.
Bk. Childwall, N. 29° 37', W. 26° 50'*	30.03	762.7	82	27.8	67	nne.			3		4		n.	0	0	mod.	nne.	clear.
S. S. D. J. Foley, N. 19° 16' W. 75° 00'*†	30.00	762.0	81	27.2	91	ne.			2		6		e.	4 h'r	4 h'r	long	ne.	squally.
Bkt. David A. Preston, Windsor, N. S						n.			2		0			0	0			clear
S. Dora, N. 43° 08' W. 47° 52' *†	29.94	760.5	62.6	17.0		sw.			4-5		4		sw.	0	0	long	nne.	fair.
S. David Stewart, N. 17° 17' W. 55° 06'			87	30.6		ene.			3		hz.			0	0	mod.	ene.	
S. E. J. Spicer, Antwerp, Belgium	30.08	764.0	64	17.8	100	ene.			3		0			0	0			clear.
Schr. Edith R. Seward, Brunswick, Ga			80	20.7		ese.			1		6		se.	3 h'r	3 h'r			rainy.
Bk. E. D. Bigelow, Galveston, Texas†	29.94	760.5	85	29.4		se.			1		0			0	0			clear.
Bk. Edmund Phinney, N. 26° 03' W. 65° 12' †	30.18	766.6				e			5		4		e.	2 h'r	2 h'r	high	e.	fair.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass †	30.14	765.5	64	17.8		sw.			2		10		w.	0.49	12.4			cloudy
S. Gatherer, N. 6° 26' W. 31° 40'*	29.99	761.7	84	28.9	75	sse.			2		5		e.	0	0	sm'h	se.	fair.
Bg. George, Arroyo, Porto Rico, W. I*†	30.00	762.0	80	26.7		ene.			2		10		ene.	rain	rain			squally.
Bk. Galeon, N. 39° 45', W. 14° 15'†	29.99	761.7	68	20.0		calm			0		10			0	0		ne.	overcast.
Bk. Grey Eagle, N. 19° 20' W 45° 07' *†	30.00?	762.0?				ene.			2		2		ene.	0	0	sm'h	e.	clear.
S. Hedwig, N. 36° 19' W. 5° 00'	29.98	761.5	75.7	24.3	78	ene.			3		2		ene.	0	0	1	e.	
Schr. Isabel Alberto, Key West, Fla†	30.00	762.0				se.			2		8		e.	sh'rs	sh'rs			squally.
Bk. Johanne, N. 60° 30', W. 6° 09'*†	30.20	767.1	56	13.3		se.			2		8		se.	0	0	sm'h		hazy.
Schr. John L. Thomas, N 24° 12' W. 82° 16' *†	30.02	762.5	85	29.4	83	ese.			3		10		e.	¼ h'r	¼h'r	short	ne.	threatening.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.13	765.3	70	21.1	95	calm			0		10		nw.	h'vy	h'vy			cloudy.
Bg. Josefa, N. 51° 12' W. 6° 10' †	30.20?	?767.1				e.			3		8		e.	0	0	sm'h		cloudy
Bk. Lady Hincks, N. 33° 30', W. 29° 00' *†	30.10	764.5							3					2 h'r	2 h'r			fair.
Bg. L. & W. Armstrong, Ft. Royal, Martinique, W.I† *	29.94	760.5				calm			0		4		ene.	1 h'r	1 h'r	sm'h		
S. S. Madrid, Kertch, Russia†	30.22	767.6	69	20.6	80	ne.			0		0			0	0			clear
Bk. Mohican, N. 0° 46' W. 28° 45'	29.87?	758.7?	82	27.8		sse.			5		2		sse.	½h'r	½h'r	sm'h	sse.	clear.
Schr. Norena, N. 41° 11', W. 69° 05						sw.			4		fg.			0	0	light	se.	dense fog.
Bk. Orpheus, N. 57° 07', W. 28° 12'	29.95	760.7	60	15.6		s.			2		ks		ssw.	0	0	sm'h		fair.
Schr. Rollin Sanford, Key West, Fla†	30.00	762.0				e.			2		8		se.	0	0			squally.
Bg. Rising Sun, N. 31° 25', W. 72° 26'†	30.20	767.1	82	27.8		se.			4		1		se.	0	0	mod.	se.	clear.
Bk. Rosalie, N. 53° 08', W. 5° 55'*†	30.18	766.6				wsw.			1					0	0	light	nne.	hazy.
Bgt. Sunlight, Demerara, British Guiana*†	29.93	760.2				se.			2		10		e.	1 h'r	1 h'r			cloudy.
Bk. Scud, Long Island Sound*†	30.10	764.5	7?	21.7		sw.			2		5		wsw.	0	0			clearing.
Bk. Tuck Sing, N. 23° 40' W. 83° 32' *†	29.98	761.5				ese.			3		2		e.	0	0	sm'h		fair.
Schr. Viola Reppard, Brunswick, Ga†	30.09	764.3	82	27.8		e.			1		4		e.					showery
Bgt. Willie, N 4° 38' W. 26° 15' *†	30.02	762.5	83	28.3		sse.			3		4		sse.	0	0	long	se.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 19° 32', W. 39° 28'	30.16	766.1	75.5	24.2	77	ne.			3		1		e.			1	ne.	blue sky.
H. M. S. Opal, S. 13° 03' E. 5° 29'	30.05	763.3	65	18.3	84	sse.			4		6		sse.			4	ssw.	d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.54	775.7	51.2	10.7	79	se.			4		4		calm			3	se.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.95	760.7	74.3	23.5	83	ssw.			3		9		ssw.	0	0	2	ssw.	gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.51	774.9	53	11.7	80	ese.	14	6.3			0			0	0	mod.	ese.	clear.
U. S. S. Nipsic, Montevideo, Uruguay *	30.55	776.0	53	11.7	73	se.			4		2		se.			sm'h		fair.
S. S. Hevelius, S. 3° 00' W. 31° 00' *†	30.19	766.8	80	26.7		sse.			6		8		se.	1 h'r	1 h'r	long	se.	cloudy.
Bk. E. L. Pettingill, S. 0° 03' W. 27° 00' *†	30.15	765.8	78	25.6		se.			5		2		sse.	0	0	sm'n	se.	
Bk. Great Surgeon, S. 31° 30' W. 21° 45' *†	30.33	770.4	66	18.9		nw.			4		9		sw.	0	0	long	sw.	cloudy.
Bk. Godeffroy, S. 48° 29' W. 59° 49'	30.17	766.3	42.4	5.8	93	w.			4		4?			hail	hail	mod.	se;s.	clear.?
Bkt. Louise Adelaide, S. 26° 00' W. 41° 20' †	30.17	766.3	70	21.1		sse.			4		10		s.	3 h'r	3 h'r	chop	s.	cloudy.
S. S. Olbers, Rio de Janeiro, Brazil	30.25	768.3	73	22.8	93	calm			0		8		sw.	½h'r	½h'r	sm h		cloudy.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.34	770.6	59	15.0		e.			1		4		ese.					d. clouds.
Bg. John Wesley, S. 25° 29', W. 33° 30'*†	30.22	767.6	73	22.8		nne.			2		2		nne.	0	0	long	ssw.	clear
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 23' E. 134° 58'	30.11	764.8	64	17.8	94	sw.			2		0					1	sw.	blue sky
H. M. S. Flying Fish, N. 37° 21' E. 126° 05'	30.13	765.3	73	22.8	67	nw.			2		0					2	nw.	blue sky.
H. M. S. Magpie, N. 5° 53' E. 118° 47'	29.86	758.4	81.2	27.3	83	calm			0		9							d. clouds.
H. M. S. Mutine, N. 11° 45' W. 103° 30'	29.92	760.0	81	27.2		sw.			3		8					3	sw.	d. clouds.
H. M. S. Zephyr, N. 42° 40', E. 137° 25'	30.15	765.8	66	18.9	?	wsw.			3		0					3	w.	blue sky.
H. P. M. S. Tamega, Canton, China	29.78	756.3	84.2	29.0	87	n.			2		8							d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.17	766.3	72	22.2	85	nne.			1		10		e.	0	0			hazy.
U. S. S. Essex, Roze Island, Corea	30.09	764.3	73	22.8	90	nw.			1		0					sm'h	ssw.	clear.
U. S. S. Monocacy, Roze Id. Corea	30.10	764.5	74	23.3	76	nnw.			1		0					sm'n		clear.
U. S. S. Palos, Hong Kong, China	29.79	756.7	81	27.2	87	ssw.			1		7		w.					fair.
U. S. S. Pensacola, N. 19° 46°, E 177° 11'*	29.85	758.2	81	27.2	83	se.			4		5		se.	light	light	sm'h		fair.
U. S. S. Richmond, Yokohama, Japan	30.10	764.5	73	22.8	85	ne.			3		10			0	0			cloudy.
U. S. S. Coptic, N. 46° 26', E. 177° 49'	30.16	766.1	59.5	15.3	23	wsw.			4		10		sw.	0	0	r'gh	sw.	overcast
U. S. S. Oceanic, N. 40° 29', W. 133° 08'	30.20	767.1	64	17.8	100	n.			3-4		7		n.	0	0	4	nw.	d. clouds
U. S. S. Oregon, San Francisco, Cal			55	12.8	93	calm					2		nw.					hazy.
U. S. S. Ancon, San Francisco, Cal †	29.80	756.9	55	12.8	87	s.			1		2		w.					fair.
U. S. S. State of California, N. 38° 14', W. 123° 10†	29.79	756.7	50	10.0	93	calm			0		10					sm'h	nw.	overcast.
U. S. S. Queen of the Pacific, Victoria, Van. Island†	29.98	761.5	53	11.7	100	s.			2		4?			0	0			cloudy?
U. S. S. Victoria, Portland, Oregon†	29.98	761.5	54	12.2	87	se.			1		2		e.					fair.
U. S. S. City of Pekin, N. 48° 20', W. 171° 30'†	29.82	757.4	52	11.1	93	wnw.			0		10		wnw.	0	0	r'gh	wsw.	overcast.
U. S. S. City of Tokio, N. 22° 17' E. 114° 01' †	29.84	757.9	82	27.8	87	se.			2		8		se.	6 h'r	6 h'r	mod.	sw.	overcast.
U. S. S. City of Rio de Janeiro, off Nine Fin, China†	29.85	758.2	82	27.8	83	se.			1		10		se.	rain	rain	sm'h		sprinkling.
U. S. S. Colima, N. 22° 53', W. 107° 32†	29.95	760.7	83	28.3	79	sw.			2		4		nw.	0.70	17.8	mod.	wsw.	clear.
U. S. S. Granada, San Jose, Gautemala†	29.91	759.7	76	24.4	91	calm			0		7		ne.	0	0	mod.		cloudy.
U. S. S. San Juan, N. 8° 25', W. 83° 55'			80	26.7		wsw.			1		10 us		ssw.	0	0	gr'd	ssw.	d. clouds.
U. S. S. Armenia, N. 17° 08' W. 121° 10' *	29.80	756.9	78	25.6	82	nne.			4		10		nne.	10 minutes		mod.	var.	cloudy.
U. S. S. Saint David, N. 46° 48', W. 153° 47'*†	29.74	755.4	59.3	15.2	88	wnw.			4		9		nw.	2 h'r	2 h'r	h'vy	nw.	cloudy
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25', E. 155° 33'	29.85	758.2	83.3	28.5	89	nw.			1		7					sm'h		thnd'rst'rm
U. S. S. Hartford, S. 6° 25', W. 81° 49' *	29.96	761.0	64	17.8	94	se.			1		10			0	0	sm'h	s.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Iroquois, Callao, Peru	30.06	763.5	60	15.6	88	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	drizzling
U. S. S. Lackawanna, S. 17° 48′ W. 72° 04′ *	30.02	762.5	60	15.6	82	se.	.....	.....	3	.....	10	.....	se.	.....	.....	sm'h	se.	cloudy.
U. S. S. Onward. Callao, Peru *†	30.13	765.3	60	15.6	88	sse.	.....	.....	2	.....	10	.....	sse.	.....	.....	.....	.....	misty.
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.6	58	14.4	100	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. City of Sydney, Sydney. N S. W*†	30.06	763.5	58	14.4	76	sw.	.....	.....	2	.....	8,k;n	.....	sw.	.....	.....	.....	.....	cloudy.
S. S. Zealandia, S. 26° 15′, W. 177° 03′	30.11	764.8	66	18.9	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	clear
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.10	764.5	67	19.4	.....	se.	.....	.....	1	.....	.....	.....	.....	0	0	long	se.	dense fog.
S. David Crocket, S 37° 41′, W. 114° 13′*	29.45	748.0	51.5	10.8	79	sw.	.....	.....	9	.....	7	.....	wsw.	6 h'r	6 h'r	r'gh	wsw.	showery.
S. Sovereign of the Seas, S. 34° 02′, W. 85° 15′*†	30.32	770.1	55	12.8	87	calm	.....	.....	0	.....	10	.....	.....	1 h'r	1 h'r	sm'h	sw.	cloudy
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 18° 10′, E. 49° 28′	30.11	764.8	.....	.....	.....	ne.	.....	.....	1	.....	7	ene.	.....	.....	.....	2	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.01	762.2	79	26.1	82	sse.	.....	.....	2	.....	2	sse.	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.07	763.8	75	23.9	95	calm	.....	.....	0	.....	1	sse.	.....	.....	.....	1	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.85	758.2	101.5	38.6	36	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Tuniata, Batavia, Java	29.93	760.2	81	27.2	96	sw.	.....	.....	2	.....	8	.....	sw.	light	light	sm'h	.....	cloudy
S. S. Galatia, N. 10° 10′ E. 59° 44′†	29.87	758.7	81	27.2	91	s.	.....	.....	3	.....	7	.....	sse.	0	0	mod.	.....	hazy.
S. S. Benledi, N. 6° —′, E. 81° —′*	29.83	757.7	84.5	29.2	77	wsw.	.....	.....	4	.....	5	.....	wsw.	0	0	cross	var	fine.
Bk. Pilgrim, S. 29° 15′, E. 42° 30′*†	30.10	764.5	.....	.....	.....	sw.	.....	.....	3	.....	8	.....	sw.	0	0	long	ne.	cloudy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 15, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	760.9	76.3	24.6	79	n.			1		0			0	0	clear	Roziere.
Algiers			29.96	760.9	74.8	23.8	75	nne.			3		0			0	0	clear	Thève.
La Calle			29.91	759.7	75.6	24.2	69	ne.			4		2			0	0	fair	Fonfrède.
Tunis			30.05	763.2	79.5	26.4	52	e.			2		1			0	0	very fair	Delord.
Saida			30.07	763.8															Pérès.
Tebessa			29.98	761.6	79.5	26.4	42	s.			1		1			inap.	inap.	very fair	St. Martin.
Geriville					82.8	28.2	11	nw.			2		3			0	0	pretty fair	Forfert.
Laghouat			29.99	761.7	83.5	28.6	44	nw.			2		1			0	0	very fair	Abraham.
Biskra			29.95	760.7	88.2	31.2	27	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.27	768.8	48.5	9.2	83	n.	5	2.2			1			0.292	7.4	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.12	765.0	30.21	767.3	50.4	10.2	87	sse.	1	0.4			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.1	30.07	763.8	65.7	18.7	83	ne.			2		10			0.138	3.5		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.6	30.18	766.6	70.2	21.2	57	ese.	17.4	7.8			2			0	0		Dr. Wierzbiski
Eperies																			Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.83	732.2	30.22	767.7	69.4	20.8	40	s.			5		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.3	29.98	761.4	67.5	19.7	78	e.			3		8			0	0	dull	The Staff.
Lemberg	29.35	745.4	30.32	770.1	65.8	18.8	37	se.			5		0			0	0		Dr. T. Stanecki.
Pola	29.87	758.7	30.02	762.5	72.5	22.5	60	ese.			4		5			0.035	0.9		I. R. Hydrographic Office.
Szathmar	29.74	755.4	30.19	766.9	72.3	22.4	90	s.			5		7			0	0		Joseph Midlinszky, S. J
Szegedin	29.89	759.2	30.17	766.2	62.1	16.7	91	calm			0		10			0	0		Karl Stuccel.
Trieste	29.95	760.7	30.05	763.2	70.5	21.4	63	ne.			3		9			0	0		Royal Academy.
Vienna	29.44	747.7	30.14	765.6	66.2	19.0	64	se.			2		10			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.99	761.7	30.09	764.3	56.0	13.3	97	ene.	10	4.5			10			0.010	0.3	overcast	W. Boswell.
Armagh, Observatory	29.78	756.4	30.00	762.0	58.9	14.9	84	ne.	4	1.8			0					blue sky	S. Gall.
Bidston, Liverpool Obs'y			29.95	760.7	60.4	15.8	75	nw.	6	2.7			8					misty	John Harnup.
Bolton, Sharples	29.41	747.0	29.93	760.2	62.4	16.9	75	ene.	3	1.3			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.54	750.3	29.94	760.5	61.5	16.4	78	nw.			1		8			0.36	9.1	thunder	McLandsborough & Preston.
Bridgetown, Barbadoes	29.96	761.0	29.99	761.7	85.0	29.4	66	se.			1		2					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.86	758.4	29.96	761.0	59.4	15.2	85	nw.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	29.78	756.4	29.94	760.5	67.0	19.4	67	calm			0		6					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.75	755.6	29.98	761.5	61.1	16.2	83	se.			1		1					blue sky	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	67.2	19.6	84	nw.					4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone																			J. W. Smith.
Galway, Queen's College	29.94	760.5	29.98	761.5	54	12.2	93	ne.			1		0			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	73.0	22.8	93	nw.			2		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.82	757.4	30.02	762.5	60.7	15.9	80	ene.			4		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.78	756.4	29.95	760.7	63.7	17.6	69	nne.			1		0					misty	The Staff.
Guernsey	29.66	753.4	29.95	760.7	63.3	17.4	83	e.			1		3					foggy	A. Collenette, F. M. S.
Kew, Observatory	29.93	760.2	29.97	761.2	63.0	17.2	70	wnw.	4	1.8			3					blue sky	The Staff.
Leicester, Museum	29.69	754.1	29.95	760.7	60.5	15.8	84	nw.			1		8					overcast	J. C. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	75.0	23.9	77	nw.			2		3			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.01	762.2	30.06	763.5	83.0	28.3	71	se.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.74	755.4	29.97	761.2	59.3	15.2	74	nnw.			1		3					blue sky	The Staff.
Plymouth	29.86	758.9	29.95	760.7	64.2	17.9	80	se.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.03	762.7	30.13	765.3	58.9	14.9	83						?					?	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.06	763.5	30.12	765.0	81.0	27.2	48	ne.			2		2					d. clouds	W. H. Lyne.
Sheffield	29.68	753.9	29.95	760.7	64.4	18.0	75	s.			1		6			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.93	760.2	29.96	761.0	62.5	16.9	79	e.			3		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.95	760.7	62.6	17.0	75	e.	0	0			10					overcast	W. C. Carlisle.
Strathfield Turgiss					63.5	17.5	70	nw.			0.5		0					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.93	760.2	30.02	762.5	70	21.1	70	se.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.98	761.5	30.00	762.0	61.1	16.2	75	w.	7	3.1			6					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.06	763.5	77.4	25.2	56	se.	3.1	1.4		3 c	7 n	w.	se.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.14	765.5	30.18	766.6	58	14.4	88	s.	3	1.3			10 n			0	0		Hon. J. Ferguson.
Charlottetown, P. E. Island	30.11	764.8	30.15	765.8	54	12.2	93	e.	3	1.3		2 c	2 s	calm	calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.11	765.0	30.18	766.6	50	10.0	96	ne.	1	0.4			fg.			0	0	dense fog	G. A. Blair.
Cornwall, Ontario	29.94	760.5	30.13	765.3	60.2	15.7	96	nw.			1		10 s			0.013	0.3	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.09	764.3	30.14	765.5	52.0	11.1		w.			1	0	5 ks			0	0	gloomy	H. A. Johnson.
Edmonton, N. W. T.	27.60	701.0			30	— 1.1	68	w.	4	1.8		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.11	764.8	30.13	765.3	48	8.9	86	calm	0	0			10 k		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.77	756.1	54	12.2	93	s.	12	5.4		2 cs	0	n.		0	0	misty	James Stewart.
Fredericton, N. B.	30.11	764.8	30.17	766.3	55.1	12.8	81	e.	1.0	0.4		2 ck	sk			0	0	d. clouds	Prof. Thos. Harrison
Grand Manan, N. B.	30.07	763.8	30.13	765.3	56	13.3	83	ne.	9	4.0		7 k	0	e.		0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.14	740.1	30.25	768.3	53.0	11.7	100	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.03	762.7	30.15	765.8	55	12.8	90	n.	4	1.8		5 ok	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.79	756.7	30.18	766.6	57.7	14.3	91	ne.			1	5 c	0	sw.		0	0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.88	758.9	30.21	767.3	59	15.0	100	w.	1	0.4		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.10	764.5	30.14	765.5	56.0	13.3	77	e.			5	8 k	0	e.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.33	745.0	30.28	769.1	51.7	10.9	100	calm	0	0						0	0	d. clouds	E. B. Reed.
Medicine Hat	27.80	706.1	30.11	764.8	41	5.0	89	calm	0	0		0	2 s			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.93	760.2	30.13	765.3	63	17.2	97	w.	2	0.9			10 ks		sw.	0.03	0.8	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.93	760.2	30.18	766.6	55.8	13.2	94	nw.				7 ck	0			0	0		A. McGill, M. A.
Parry Sound, Ontario*	29.51	749.5	30.21	767.3	51	10.6	100	e.	6	2.7		2 k	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.50	749.3	30.26	768.6	55.7	13.2	87	calm			0	0	0			0	0	hazy	Wm. O'Connor, M.A.
Port Dover, Ontario	29.53	750.0	30.23	767.8	54	12.2	100	n.	1	1.8		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.57	751.1	30.21	767.3	51	10.6	100	e.	5	2.2		2 ck	0	sw.		0	0	clear	M. Payne.
Que Appelle, N. W. T.	27.07	702.8	29.95	760.7	40	4.4	92	nw.	8	3.6		5 cs	0	w.		0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.79	756.7	30.15	765.8	55	12.8	90	calm	0	0			10 ks			0.02	0.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.73	755.1	30.18	766.6	50	10.0	96	calm	0	0			fg.			0.28	7.1	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.16	766.1	30.22	767.6	57	13.9	84	calm	0	0		0	0			0	0	clear	
St. John, N. B	29.99	761.7	30.13	765.3	56.5	13.0	97	s.	1	0.4		6 ok	0	nw.		0	0	d. clouds	G. Hutchinson.
Saint John's, N. F.	29.90	759.4	30.15	765.8	48	8.9	85	nw.			1		10 n			0	0	cloudy	The Commandant.
Saugeen, Ontario*	29.48	748.8	30.19	766.8	56	13.3	86	sw.	7	3.1		0	0			0	0	clear	
Stratford, Ontario	29.95	760.7	30.23	767.8	51.6	10.9	96	calm	0	0		0	0			0	0	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F.			30.12	765.0	51.1	10.6		e.			2					0	0		The Commandant.
S. W. Point, Anticosti	30.00	762.0	30.04	763.0	54	12.2	80	se.	4	1.8		0	0			0	0	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper 0-10	Clouds. Amount and kind. Lower 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian—Continued.																			
Sydney, C. B.	30.08	764.0	30.14	765.5	56	13.3	86	ne.	2	0.9		5 cs	5 ks		ne.	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.86	758.4	30.25	768.3	53	11.7	96	calm	0	0		0	0			0.01	0.3	clear	Magnetic Observatory.
Woodstock, Ontario	29.15	740.4	30.21	767.3	53.4	11.9	97	calm	0	0		2 c	0			0	0	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.99	761.7	30.06	763.5	58	14.4	90	e.	6	2.7		10 k	0	w.		0.03	0.8	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	64.0	17.8	78	wsw.	10.5	4.7		5 cs	0			0	0	fine	I Garfelt.
Springbok Fontein	27.89	708.4			74	23.3	38									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.98	761.6	30.06	763.6	51.8	11.0	94	sw.			1		10					cloudy	Samuel Redolez.
Iquique	29.98	761.4	30.00	762.1	59.4	15.2	81	nw.			3							cloudy	Rafael Moreno.
Niebla	29.51	749.5	29.61	752.2	43.9	6.6	91	e.			1	2 c		calm		0	0		Federico Köhling.
Punta Caldera	29.98	761.4	30.07	763.7	55.4	13.0	79	nw.			1		6 n		sw.			fair	Manuel Tobar.
Punta Corona	29.70	754.3	29.89	759.1				n.			1		10			0.063	1.6	cloudy	Ignacio Ayala.
Valparaiso	29.76	755.9	29.90	759.5	52.5	11.4	89	n.			1							fair	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Sung-shu-chwang	25.25	641.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.02	762.5	30.05	763.2	73.0	22.8	86	e.	11.2	5.0		c	3	nnw.		0	0	fair	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.17	766.4	30.22	767.6	64.9	18.3	67	ese.	20	9			8						Oversergent Fischer.
Fanoe	30.06	763.4	30.08	763.9	67.5	19.7	72	ese.	13	6			5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.90	759.4	29.94	760.5	48.9	9.4	91	s.	4	2			8						A. O. Thorlacius.
Thorshavn	30.20	767.1	30.22	767.7	53.2	11.8	94	se.	7	3			10					foggy	Overloerer Bergh.
Vestervig	30.06	763.5	30.15	765.8	68.0	20.0	65	e.	13	6			2						Loerer Oesterbol.
Egyptian.																			
Cairo	29.79	756.6			84.6	29.2		ne.	3.6	1.6			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.36	745.8	29.98	761.6	74.7	23.7	60	calm			0		1		sw.	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.59	751.5	30.10	764.5	65.1	18.4	75	ne.			1		n		sw.	0	0		M. Nicot, Director.
Avignon, Normal School	29.98	761.6	30.06	763.6	64.4	18	90	w.			1		10					rainy	M. Giraud, Director.
Bar-sur-Seine	29.43	747.4	29.96	761.0	70.7	21.5	57	sse.			1		5 kn		s.	0	0	cloudy	M. Saillard, Director
Beauvais, Normal School	29.72	754.8	29.98	761.4	65.1	18.4	73	n.			1		5		w.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.08	738.6	29.97	761.2	69.4	20.8	68	nne.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.65	753.0	29.90	759.4	75.9	24.4	44	ese.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.42	747.2	29.96	760.9	68.0	20	74	se.			1				se.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.75	755.7	30.00	761.9	72.3	22.4	72	se.			1		2		se.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.88	759.0	29.97	761.1	61.5	16.4	89	w.			1		8		ne.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.05	753.2	29.97	761.1	69.4	20.8	71	calm			0		0			0.039	1.0	clear	M. Jadot, Director.
Charleville, Normal School	29.47	748.5	29.97	761.2	73.0	22.8	72	se.			1		1		ese.	0	0	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.63	727.2	29.94	760.5	70.2	21.2	65	se.			1		8			0.063	1.6		M. Alluard, Director.
Cluny, Normal School	29.16	740.7	29.99	761.8	71.4	21.9	54	sw.			1				sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.16	740.6	29.98	761.5	73.0	22.8	48	ne.			1	c	2 kn		ne.	0.020	0.5	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.56	699.9	30.08	764.0	57.2	14	89	s.			1		9 n			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.93	734.8	30.03	762.8	68.0	20.0	62	nw.			2		9		w.	0.024	0.6		M. Kina, Director.
Grenoble, Normal School	29.23	742.4	30.06	763.6	68.0	20	91	sw.			1		10 kn		nw.	0.79	20.	raining	M. Ablard, Director
Guéret, Normal School	28.40	721.3	29.93	760.2	68.0	20	51	s.			1		5 cn		n.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.72	754.8	29.99	761.8	69.8	21	87	n.			1		5		n.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.35	745.4	29.97	761.3	68.4	20.2	46	sw.			1	5 ck				0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.6	29.97	761.2	71.6	22.0	72	calm			0		5		e.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.96	735.5	30.00	761.9	64.0	17.8	76	s.			1		10 n					raining	M. André, Director
Mans, Normal School	29.65	753.1	29.95	760.7	69.3	20.7		se.			1		2 ks		se.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.75	755.6	30.02	762.4	68.4	20.2	71	w.			1-2		8		s.	inap.	inap.		M. Stephan, Director.
Montlouis	24.89	632.2	29.73	755.2	55.4	13.0	45	sw.	9.4	4.2			6	sw.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.97	761.3	69.1	20.6	87	e.			2		2					light rain	M. Galzin, Director.
Nantes, Observatory	29.81	757.1	29.97	761.2	73.6	23.1	61	ne.			0-1		5k;kn		e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.87	758.8	29.98	761.5	71.1	21.7	69	se.	7.4	3.3			2			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.0			37.8	3.2		w.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.94	735.1	29.99	761.7	65.8	18.8	72	se.			3		5 n		s.	0.43	11.	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.18	639.6			46.4	8.0	96	sw.			2		10			0.071	1.8	rain & hail	M. Alluard.
Rochefort, Naval Obs'y	29.88	759.0	29.91	759.8	74.5	23.6	67	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.72	754.9	29.93	760.2	71.4	21.9	97	n.			1		5		s.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.85	707.4	29.98	761.4	58.8	14.9	82	nw.			1		10		ne.	0.83	21.	raining	M. Seger, Director.
Rouen, Normal School	29.94	760.5	29.99	761.7	65.1	18.4	80	n.			2		5	sw.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.82	757.3	29.98	761.5	69.8	21.0	64	sse.			1		1		s.	0.157	4.0	clear	M. Renou, Director.
Toulouse, Observatory	29.28	743.6	30.00	762.0	77.0	25.0	49	sse.			2		1	w.		0.024	0.6	clear	M. Baillard, Director.
Tours	29.76	756.0	29.94	760.5	71.6	22.0	66	n.			1		5	s.	sw.	0.016	0.4	cloudy	M. de Tastes.
Versailles, Observatory	29.53	750.0	30.02	762.6	68.7	20.4	50	n.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.77	756.2	29.92	760.0	77.2	25.1	54	e.	2.0	0.9		3 c	k	w.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.57	725.7	29.97	761.1	72.3	22.4	47	s.			2		6	s.		0	0		Prof. Jnedt.
Bamberg	29.16	740.7	30.01	762.2	74.3	23.5	62	calm			0	4 cs				0	0		Prof. Dr. Hoh.
Berlin	29.97	761.1	30.10	764.6	75.2	24.0	51	e.			5		8			0	0		Dr. Lensch.
Breslau	29.67	753.5	30.20	767.1	73.2	22.9	44	ese.			3		2	se.		0	0		Royal University Obs'y.
Carlsruhe	29.56	750.9	30.01	762.3	68.7	20.4	69	n.			1		10	s.		0.012	0.3		Albert Senz.
Cassel	29.30	744.2	30.01	762.3	70.4	21.4	59	n.			1		8	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.64	752.8	30.00	761.9	70.3	21.3	61	calm			0		5			0	0		Physical Society.
Friedrichshafen	28.61	726.7	30.00	761.9	65.5	18.6	78	sw.			2		10	w.		0.843	21.4		Wilhelm, Chief Tel.
Hamburg	29.97	761.3	30.06	763.6	68.7	20.4	71	ese.			4		10			0	0		E. Preller.
Kiel	30.07	763.8	30.09	764.2	66.4	19.1	68	ese.			1		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.63	752.5	30.03	762.8	74.3	23.5	53	se.			4		4			0	0		H. Leppig, Asst.
Magdeburg	29.85	758.2	30.03	762.7	74.8	23.8	51	ese.			2		7	s.		0	0		Weather Observatory.
Memel	30.46	773.7	30.51	774.9	72.5	22.5	50	e.			3		0					clear	Issermann.
Munich	28.18	715.8	30.04	763.1	71.4	21.9	45	ne.			2		2	se.		0	0		Central Station.
Neufahrwasser	30.35	770.8	30.36	771.2	72.3	22.4	33	se.			4		1			0	0		A. Lothes.
Neustadt, Palatinate	29.44	747.8	29.97	761.1	73.0	22.8	54	calm			0		7			0	0		Dicknether.
Stuttgart	29.06	738.0	29.93	760.2	65.3	18.5	76	e.			1		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.10	764.4	30.12	765.0	68.7	20.4	56	e.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.72	755.0	30.10	764.4	82.9	28.3		ne.			1.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.67	753.5	29.72	754.8	82.3	27.9	80	ssw.	34.0	15.2			7			0	0	d. clouds	
Deesa	29.28	743.6	29.75	755.6	82.5	28.1	70	s.	10.0	4.5			8	s.	s.	0	0	d. clouds	
Bombay	29.82	757.5	29.86	758.5	82.1	27.8	76	wsw.	10.0	4.5			6	w.		0.04	1.0	d. clouds	
Poona, Yarrowda	28.00	711.2	29.86	758.4	77.7	25.4	66	wsw.	20.0	8.9			6		w.	0	0	d. clouds	
Trichinopoly	29.54	750.6	29.82	757.4	90.8	32.7	51	ne.	0.2	0.1			8			0.48	12.2	d. clouds	
Bellary	28.32	719.3	29.76	755.8	90.5	32.5	35	w.	8.0	3.6			3			0	0	d. clouds	
Belgaum	27.33	694.1	29.88	759.0	72.6	22.6	82	wsw.	9.0	4.0			6	e.	w.	0.02	0.5	d. clouds	
Lahore	28.90	734.0	29.62	752.4	91.1	32.8	58	n.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.72	729.5	29.60	751.7	88.8	31.6	69	w.					0			0	0	th'd'r;light'g	
Agra	29.09	739.0	29.64	752.9	91.0	32.8	57	nw.					5		w.	0.40	10.2	d. clouds	
Nagpur	28.70	729.0	29.74	755.3	82.3	27.9	72	w.	7.0	3.1			7		w.	0.02	0.5	d. clouds	
Jubbulpore	28.37	720.5	29.71	754.6	81.6	27.0	79	sw.	10.0	4.5			8		sw.	0	0	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From.	Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.27	743.3	29.64	752.8	80.7	27.1	89	calm	0	0			10			1.17	29.7		
Allahabad	29.36	745.6	29.67	753.5	81.7	27.6	91	calm	0	0			6			0	0	d. clouds	
Patna	29.48	748.7	29.66	753.4	83.2	28.4	83	ne.	1.3	0.6			10	ne.	ne.	0	0	overcast	
Hazaribagh	27.69	703.4	29.70	754.3	77.0	25.0	89	calm	3.2	1.4			10			0	0	overcast	
Cuttack	29.61	752.1	29.69	754.2	85.0	29.4	82	calm	0	0			8			0.06	1.5	d. clouds	
Calcutta, Alipore	29.64	752.9	29.66	753.4	83.1	28.4	89	ssw.	1.5	0.7			8		s.	0.16	4.1	d. clouds	
Dhubri	29.56	750.9	29.68	753.9	82.3	27.9	90	n.	3.3	1.5			10			3.15	80.0	gloomy	
Chittagong	29.66	753.3	29.75	755.6	80.7	27.1	88	sse.	4.9	2.2			5		s.	0	0	d. clouds	
Sibsagar	29.35	745.5	29.68	754.0	83.2	28.4	88	nw.	2.0	0.9			10	w.	w.	0.18	4.6	overcast	
Jeypore	28.26	717.9	29.68	753.7	88.9	31.6	56	nw.	5.7	2.6			6		ene.	0	0	d. clouds	
Zanzibar	30.00	762.0			80.1	26.7	68	nnw.	1.2	0.5			3	ese.	ene.	0	0	d. clouds	
ITALIAN.																			
Udine	29.65	753.1	30.05	763.2	69.3	20.7	60	e.	3.1	1.4			10			0.020	0.5		Prof. Giovanni Clodig.
Milan	29.56	750.7	30.00	763.6	64.0	17.8	74	nw.	6.3	2.8			10	w.		0.142	3.6		Prof. G.V.Schiapparelli
Padua	29.91	759.6	30.01	762.3	70.0	21.1	65	nne.	12.5	5.6			10	ene.		0.122	3.1		Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.4	30.08	764.0	57.9	14.4	93	nw.	2.5	1.1			10			0.150	3.8		Prof. F. F. Denza.
Genoa	29.82	757.3	30.00	762.0	65.7	18.7	64	ne.	8.7	3.9			10	s.		0.008	0.2		Prof. G. M. Garibaldi.
Mondovi	28.18	715.8	30.06	763.6	60.3	15.7	83	e.			4		10			0.378	9.6		Prof. D. C. Bruno.
Pesaro	29.94	760.5	29.99	761.7	69.4	20.8	82	n.	16.1	7.2			8			2.953	75.0		Prof. Luigi Guidi.
Florence	29.70	754.3	29.95	760.7	76.5	24.7	51	n.			2		5			0	0		Prof. Costantino Pittei.
Leghorn	29.83	757.6	29.91	759.7	73.2	22.9	69	nw.	4.3	1.9			3			0.028	0.7		Prof. P. Monte.
Rome	29.77	756.2	29.94	760.5	76.3	24.6	58	sw.	2.5	1.1			10			0.039	1.0		Prof. P. Tacchini.
Lecce	29.75	755.6	30.00	762.0	78.8	26.0	56	w.	11.2	5.0			4	s.		0.378	9.6		Prof. C. de Giorgi.
Cosenza	29.12	739.7	29.99	761.7	76.3	24.6	62	w.	2.5	1.1			2	nw		0.197	5.0		Prof. D. Conti.
Cagliari	29.76	755.9	29.95	760.7	75.4	24.1	67	se.			2		7	w.		0.571	14.5		Prof. A. Pacinotti.
Palermo	29.78	756.4	30.02	762.6	78.6	25.9	57	wsw.	11.9	5.3			10	wsw.		0.358	9.1		Prof. G. Cacciatore.
Syracuse	29.95	760.6	29.99	761.7	78.1	25.6	61	sw.	1.8	0.8			6	wsw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.47	748.5	29.98	761.4	73.8	23.2	78	sse.	1.3	0.6			3	w.		0.244	6.2		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.09	764.3	30.13	765.3	67.1	19.5	94	calm			0		10k;ks		s.	0.260	6.6	cloudy	H. Hattori.
Awomori	30.12	765.0	30.15	765.8	65.9	18.8	80	ene.	0.3	0.1			10 s;n		sw.	0.764	19.4	light rain	K. Ogawa.
Hamamatsu	30.00	762.0	30.10	764.5	65.8	18.8	87	calm			0	5 cs	0			0.972	24.7	fair	Sekigawa & Yamazaki.
Kagoshima	30.02	762.6	30.04	762.9	75.8	24.3	77	ne.			2	3 cs	0			0	0	clear	G. Miyanoaza.
Kanazawa	30.02	762.5	30.12	765.1	70.1	21.2	92	e.	0.9	0.4			10 ck		sw.	0.037	0.9	cloudy	S. Endo.
Kioto	29.95	760.8	30.13	765.2	71.7	22.1	91	nw.	0.6	0.3			10 s		e.	0.009	0.2	cloudy	M. Tojima.
Kochi	30.07	763.8	30.09	764.3	75.9	24.4	84	w.	2.3	1.0		10 ck	0	w.		0	0	overcast	K. Kusunose.
Miasaka	30.04	763.0	30.07	763.7	74.2	23.4	70	nne.			1		9 s		e.	0.016	0.4	cloudy	K. Masusaki.
Miyako	30.09	764.3	30.20	767.1	62.0	16.7	98	w	0.9	0.4			10 s			0.398	10.1	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.86	758.4	30.06	763.5	72.7	22.6	76	ne.	1.8	0.8		0	0			0	0	clear	S. Takehayashi.
Niigata	30.08	764.0	30.11	764.8	73.0	22.8	85	se.	2.4	1.1			10 s		sw.	0.010	0.2	covered	Satoo & Tomikawa.
Nobiru	30.13	765.4	30.15	765.8	64.3	17.9	98	nnw.	11.9	5.3			10 n		nnw.	0.625	15.7	raining	Yoslino & Midzushina.
Numazu	30.07	763.8	30.10	764.6	70.9	21.6	86	ene.			2	10cs;ck	0			0	0	cloudy	R. Kaneda.
Osaka	30.09	764.4	30.11	764.8	71.7	22.1	90	ne.	6.5	2.9			10s;ck			0.010	0.2	cloudy	H. Omura.
Sakai	30.09	764.2	30.10	764.4	71.5	21.9	87	nnw.			2		10 ks		n.	0.083	2.1	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.96	761.0	30.11	764.7	71.4	21.9	78	calm			0	0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.06	763.6	30.14	765.5	69.3	20.7	93	e.	7.3	3.2		9 ck;c	1s;ks	sw.	e.	0.049	1.2	cloudy	The Staff.
Wakayama	30.04	762.9	30.09	764.2	74.9	23.8	85	e;ene	1.0	0.4			10 ck		e.	0.005	0.1	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.94	760.5	30.13	765.3	69.3	20.7	61	e.	9.5	4.2			10ks;kn		ese.	0.02	0.5	cloudy	The Staff.
MEXICAN.																			
Leon	24.32	617.7	29.91	759.7	64.8	18.2	87	ssw.	0.9	0.4			10 n		se.	0.006	0.2	overcast	Prof. M. Leal.
Mazatlan	29.60	751.9	29.86	758.4	78.0	25.6	86	ne.	0.9	0.4		10 cn	0	ese.		0.473	12.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata					78	25.6	88	ne.			2		6 k		e.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.97	761.3	29.97	761.3	67.3	19.6		ne.			4					0.012	0.3		
Groningen	29.92	759.9	29.97	761.3	65.5	18.6		s.			1					0.122	3.1		
Helder	29.96	760.9	29.96	760.9	65.3	18.5		se.			2					0	0		
Hellevoetsluis	29.97	761.1	29.97	761.1	68.0	20.0	77	calm			0					0	0		
Utrecht	29.93	760.3	29.98	761.5	69.1	20.6	68	e.			2		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.88	759.0			80.4	26.9	80	n.	0.5	0.2			8			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.22	767.6	30.28	769.2	68.7	20.4	36	e.	21.0	9.4			9			0	0		
Brono	30.40	772.1	30.44	773.1	63.0	17.2	61	calm			0		0			0	0		
Christiania	30.26	768.6	30.41	772.3	68.9	20.5	55	ene.	13	6			3						
Gjessvær	30.21	767.3	30.23	767.9	49.3	9.6		w.			7		7						
Lodingen	30.40	772.2	30.45	773.4	54.1	12.3	87	calm			0		10			0	0	foggy	
PORTUGUESE.																			
Angra, Azores					69.6	20.9	78	sw.	13.0	5.8			7			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.00	761.9	30.08	764.1	74.7	23.7	74	sw.	3.8	1.7			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.5	30.04	762.9	65.7	18.7	69	wsw.	10.1	7.2			9			0	0		The Staff.
Ponta Delgada, Azores	29.99	761.7	30.06	763.5	72.0	22.2	72	s.	15.0	6.7			3			0	0		
Saint Paul de Loando	29.76	756.0	29.97	761.1	70.9	21.6	87	n.			1		1	s.		0	0		
San Salvador, Congo	28.12	714.3	29.96	760.9	77.5	25.3	59	w.			1		5						
Serra da Estrella	25.28	642.0	29.96	760.9	52.9	11.0	73	w.	8.1	3.6			8			0.004	0.1		
RUSSIAN.																			
Akmolinski	28.93	734.9	30.02	762.6	45.3	7.4	96	ne.	13	6			10 n			0.012	0.3		Major K. Lasarew.
Archangel	30.43	773.0	30.45	773.5	57.4	14.1	69	w.	9	4			10			0	0		Capt. Sselliwerstow
Ashurada	30.39	771.8	30.29	769.4	64.9	18.3	72	calm	0	0			10 n			0.063	1.6		
Astrakhan	30.41	772.5	30.34	770.7	73.4	23.0	32	ne.	7	3		0	0			0	0		Capt. Wisganow.
Baku	30.37	771.4	30.32	770.2	71.1	21.7	55	nne.	9	4		0	3 ks			0	0		
Barnaul	29.58	751.4	30.09	764.2	46.9	8.3	71	nw.	4	2			10			0	0		Meteorological Obs'y
Bielosersk	30.09	764.3	30.55	776.0	67.1	19.5	62	wnw.	7	3		0	2 ks			0	0		
Dorpat	30.37	771.5	30.61	777.6	68.0	20.0	53	e.	7	3		0	3 k			0	0		Observatory.
Ekaterinburg	29.21	742.0	30.17	766.3	56.5	13.6	49	wsw.	4	2			9			0	0		Meteorological Obs'y.
Elisawetgrad	30.03	762.7	30.47	773.9	72.1	22.3	20	ene.	9	4		0	0			0	0		
Irkutsk	28.47	723.0	30.11	764.9	48.0	8.9	78	calm			0		1			0	0		
Kasalinsk					64.0	17.8	48	nw.	9	4		0	0						
Kasan	30.08	763.9	30.34	770.7	63.0	17.2	75	wsw.	7	3			10ksn			0	0		Observatory.
Kem	30.40	772.1	30.45	773.4	65.5	18.6	53	w.	9	4		5 c	0			0	0	light clouds	
Kertch	30.22	767.7	30.25	768.3	67.1	19.5	55	ene.	9	4		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.84	758.0	30.47	773.9	68.7	20.4	31	se.	7	3		0	0			0	0		Observatory.
Koslov	29.95	760.8	30.45	773.3	71.8	22.1	44	nne.	4	2		0	4 k			0	0		
Liban	30.47	773.9	30.49	774.5	72.7	22.6	48	se.			3		0			0	0		E. Quaas.
Lugan	30.14	765.6	30.34	770.7	73.2	22.9	21	ene.	13	6			0			0	0		Meteorological Obs'y.
Moscow	30.07	763.8	30.54	775.7	67.3	19.6	50	calm	0	0		0	5 ks			0	0		Meteorological Obs'y
Nikolaiev	30.32	770.2	30.39	772.0	72.5	22.5	30	ne.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					54.1	12.3	91	nnw.	2	1		0	8 k						Iwanow.
Pekin, China	29.91	759.6	30.05	763.2	66.7	19.3	90	calm	0	0			10 n			0.165	4.2		Physical Observatory.
Petro-Alexandrovsk	29.78	756.4	30.13	765.3	61.5	16.4	54	nw.	2	1			9 k			0	0		
Petrozavodsk	30.32	770.0	30.51	774.9	65.5	18.6	60	nw.	11	5		3 ck	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.98	761.5	30.47	773.9	70.7	21.5	35	ese.	22	10		0	0			0	0		
Poti	30.07	763.8	30.10	764.6	78.8	26.0	84	sw.	4	2		0	3 s			0	0		
St. Petersburg	30.60	777.1	30.62	777.7	66.2	19.0	48	wsw.	4	2		0	0			0	0		Central Physical Obs'y.
Samarkand	27.66	702.5	30.07	763.8	67.3	19.6	35	w.	13	6		0	0			0	0		
Semipalatinsk	29.35	745.6	30.00	762.1	58.8	14.9	72	calm	0	0			10			0.079	2.0		Major Lasarew
Sevastopol	30.02	762.5	30.22	767.7	74.8	23.8	36	ne.	27	12		0	0			0	0		
Starol Bykhov	30.00	761.9	30.54	775.6	75.2	24.0	43	ese.	9	4		0	5 k			0	0	light clouds	
Tashkend Laboratory	28.39	721.1	30.01	762.3	70.0	21.1	42	calm	0	0			9 kn			0	0		Terch, A. M
Tiflis	28.92	734.5	30.34	770.6	60.1	15.6	69	se.	2	1			10			0	0		Physical Observatory.
Vernoe	27.41	696.3	29.80	758.4	61.9	16.6	59	s.	2	1		0	3 k			0	0		
Viatka	29.67	753.6	30.29	769.4	62.2	16.8	57	nw.	9	4			3			0.043	1.1		
Warsaw	29.94	760.4	30.35	771.0	68.4	20.2	33	se.	22	10		1 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.85	758.1	30.14	765.6	36.3	2.4	89	w.	2	1			4			0.110	2.8	raining	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.87	758.7	29.97	761.2	74.1	23.4	68	esw.	8.3	3.7		0	3			0	0	misty	Antonio Molins.
Bilbao, Met. Obs'y	29.85	758.2	29.91	759.7	79.2	26.2	54	se.	2.9	1.3		6	0	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.7	29.95	760.8	64.4	18.0	44	w.	2.5	1.1			9			0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.7	29.95	760.7	69.8	21.0	45	s.	6.0	2.7			10			inap.	inap.	misty	The Staff.
Murcia, Met. Obs'y	29.84	757.9	29.95	760.7	78.4	25.8	61	s.	4.9	2.2		3	4	ne.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.08	738.6	29.84	757.9	60.8	16.0	87	e.	6.3	2.8		6 n	4 n	s.	s.	0.094	2.4	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.03	737.3	29.90	759.4	66.2	19.0	72	sw.	4.3	1.9			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.95	760.8	30.02	762.5	78.6	25.9	84	e.	4.3	1.9		4 cs	1 k	n.		0.04	0.9	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	78.3	25.7	92	ene.	1.0	0.4		2 ck	5 ks		ne.	0.433	11.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.1	30.06	763.6	71.8	22.1	65	w.	6.1	2.7		3	5	sw.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.6	30.04	762.9	80.6	27.0	86	se.	3.8	1.7		3 cs	7 kn	se.	se.	0.866	22.0	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.48	774.1	30.52	775.1	58.3	14.6	83	s.			2		0			0	0		
Umea	30.49	774.5	30.54	775.8	67.6	19.8	50	s.			2		1			0	0		
Hernosand	30.48	774.3	30.54	775.6	69.4	20.8	56	s.			4		1			0	0		
Stockholm	30.38	771.6	30.56	776.1	66.2	19.0	59	ese.			2		0			0	0		
Wisby	30.39	771.8	30.45	773.3	68.7	20.4	64	ese.			5		0			0	0		
Sub-series.																			
Upsala	30.46	773.6	30.54	775.8	66.0	18.9	59	se.	7.2	3.2			8		s.	0.008	0.2		H.H.Hildebrandesson.
Swiss.																			
Geneva	28.61	726.7	30.00	762.0	66.4	19.1	73	n.			2		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.19	766.7	75.4	24.1	55	ne.	22	10.0			5		ne.	0	0		The Observatory.
Valona			30.18?	766.9?	82.6	28.1		s.			3		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	759.9	82.0	27.8	58	nw.			2		1 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.01	686.0			66	18.9	78	ne.			1	2 cs	4 k	w.	sw.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.09	764.3	30.17	766.3	66.5	19.2	75	nw.	1	0.4			10s;sk		nw.	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.14	765.5	59	15.0	93	calm	0	0		5 cs	fg.	sw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.88	758.9	38	3.3	67	e.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.31	693.7	30.16	766.1	41	5.0	76	s.	3	1.3		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.66	738.1	30.23	767.8	65.0	18.3	100	e.	2	0.9			10n;fg			0.32	8.1	light rain	Edward A. Beals.
Atlantic City, New Jersey	30.16	766.1	30.17	766.3	69	20.6	84	sw.	2	0.9			10 s		w.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.03	762.7	30.22	767.6	70.0	21.1	90	ne.	2	0.9			10 s		ne.	0.35	8.9	cloudy	D. J. Young.
Baltimore, Maryland	30.13	765.3	30.18	766.6	70	21.1	90	ne.	6	2.7		3 k	6ks;fg			c	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.14	765.5	30.16	766.1	68.0	20.0	90	n.	7	3.1		10 cs	0			0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.22	767.6	30.24	768.1	45.0	7.2	91	s.	4	1.8		4 ck	6 ks		nw.	0	0	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.32	719.3	29.91	759.7	50.0	10.0	86	sw.	2	0.9		2 c	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.41	696.2	30.25	768.3	48	8.9	46	calm	0	0		1 c	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.05	712.5	29.85	758.2	54.5	12.5	61	se	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	65	18.3	90	nw.	10	4.5		9 cs	0	w.		0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.11	688.6	29.88	758.9	46	7.8	63	nw.	1	0.4		2 k	0	w.		0	0	clear	J. Kenealy.
Boston, Massachusetts	29.94	760.5	30.09	764.3	66.0	18.9	93	nw.	3	1.3		2 k	5 s;fg		nw.	0	0	fair	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.96	761.0	79.0	26.1	97	s.	4	1.8		2 c	1 ks	w.	s.	0	0	clear	E. C. Imlay.
Buffalo, New York	29.49	749.0	30.22	767.6	56.2	13.4	92	se.	4	1.8		0	sk			0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.96	710.2	29.94	760.5	50	10.0	66	n.	18	8.0		0	1 s			0	0	clear	A. Schneider.
Cairo, Illinois	29.75	755.6	30.15	765.8	67.6	19.8	91	calm	0	0		4 c	fg.	w.		0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.73	755.1	29.93	760.2	56.1	13.4	95	n.	8	3.6		0	0			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	71.0	21.7	90	w.	4	1.8			10s;ks		sw.	0	0	cloudy	A. R. Alderson.
Cape May, New Jersey	30.13	765.3	30.16	766.1	71.0	21.7	90	ne.	4	1.8			10 s		ne.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.18	741.2	29.86	758.4	50	10.0	100	nw.			1		fg		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	74.5	23.6	98	ne.	6	2.7		1 cs	0	sw.		0.64	16.3	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	71.0	21.7	100	ne.	5	2.2			fg.			0.07	1.8	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.21	767.3	65.0	18.3	92	n.	1	0.4			fg.			0.19	4.8	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.40	746.7	30.21	767.3	66.0	18.9	87	calm	0	0		8 cs	fg.	s.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.06	611.1	29.92	760.0	37.1	2.8	69	nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.41	747.0	30.10	764.5	66.0	18.9	73	se.	2	0.9		5 c	0			0	0	fair	Wm. Norrington.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	71	21.7	100	sw.	4	1.8			10 n			0.03	0.8	light rain	C. F. Dickens.
Cincinnati, Ohio	29.54	750.3	30.19	766.8	65.0	18.3	84	nw.	1	0.4		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.48	748.8	30.20	767.1	60.3	15.7	87	se.	4	1.8		0	fg.			0	0	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.33	745.0	30.17	766.3	64	17.8	84	n.	1	0.4		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.04	712.2	29.94	760.5	71.0	21.7	90	se.	4	1.8			10 s		s.	inap.	inap.	cloudy	J. McGlone.
Custer, Fort, M. T	26.97	685.0	30.09	764.3	43	6.1	60	n.	4	1.8		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.38	746.2	30.03	762.7	66	18.9	78	s.	2	0.9		5 cs	hz.	w.		inap.	inap.	fair	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.90	759.4	61	16.1	78	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.97	761.2	40	4.4	73	calm	0	0		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.33	643.4	29.89	759.2	47	8.3	80	nw.	5	2.2		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.14	765.5	30.16	766.1	70	21.1	94	w.	1	0.4			10 s			inap.	inap.	cloudy	T. S. Townsend.
Denver, Colorado	24.77	629.1	29.88	758.9	47.0	8.3	80	se.	4	1.8		0	0			0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.01	762.2	67	19.4	84	w.	2	0.9			10 s		w.	0.02	0.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.21	767.3	62.0	16.7	87	ne.	7	3.1			fg.			inap.	inap.	dense fog	E. R. Brace.
Dodge City, Kansas	27.40	695.9	29.96	761.0	57	13.9	93	s.	6	2.7			10 s		s.	0.23	5.1	cloudy	J. H. Bryce.
Dubuque, Iowa	29.34	745.2	30.04	763.0	62.2	16.8	85	s.	1	0.4			10s;fg			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.22	742.2	29.96	761.0	55	12.8	93	calm	0	0			10 s			inap.	inap.	cloudy	N. B. Conger.
Eastport, Maine	30.04	763.0	30.11	764.8	57.5	14.2	77	ne.	8	3.6		2 ck	1 s;fg		ne.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.25	692.1	29.94	760.5	57	13.9	64	sw.	20	8.9		4 k	0	sw.		1.91	48.5	fair	J. C. Rickll.
El Paso, Texas	26.34	669.0	29.99	761.7	56.0	13.3	64	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.51	749.5	30.22	767.6	59	15.0	81	se.	3	1.3		1 c	fg	w.		0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.41	747.0	30.07	763.8	61.0	16.1	92	e.	4	1.8		3ck;cs	5 s		sw.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	83	28.3	80	s.	9	4.0		0	8 ks		s.	0	0	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.46	748.3	30.12	765.0	63.0	17.2	84	se.	8	3.6		7 ck	0	sw.		0	0	fair	Wm. H. Fallon.
Grant, Fort, Arizona	25.24	666.5	29.84	757.9	57.2	14.0	28	ne.	3	1.3		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	76.0	24.4	97	w.	3	1.3		0	9 k		sw.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.82	655.8	29.99	761.7	52	11.1	43	ne.	4	1.8		0	0			0	0	clear	F. H. Jones.

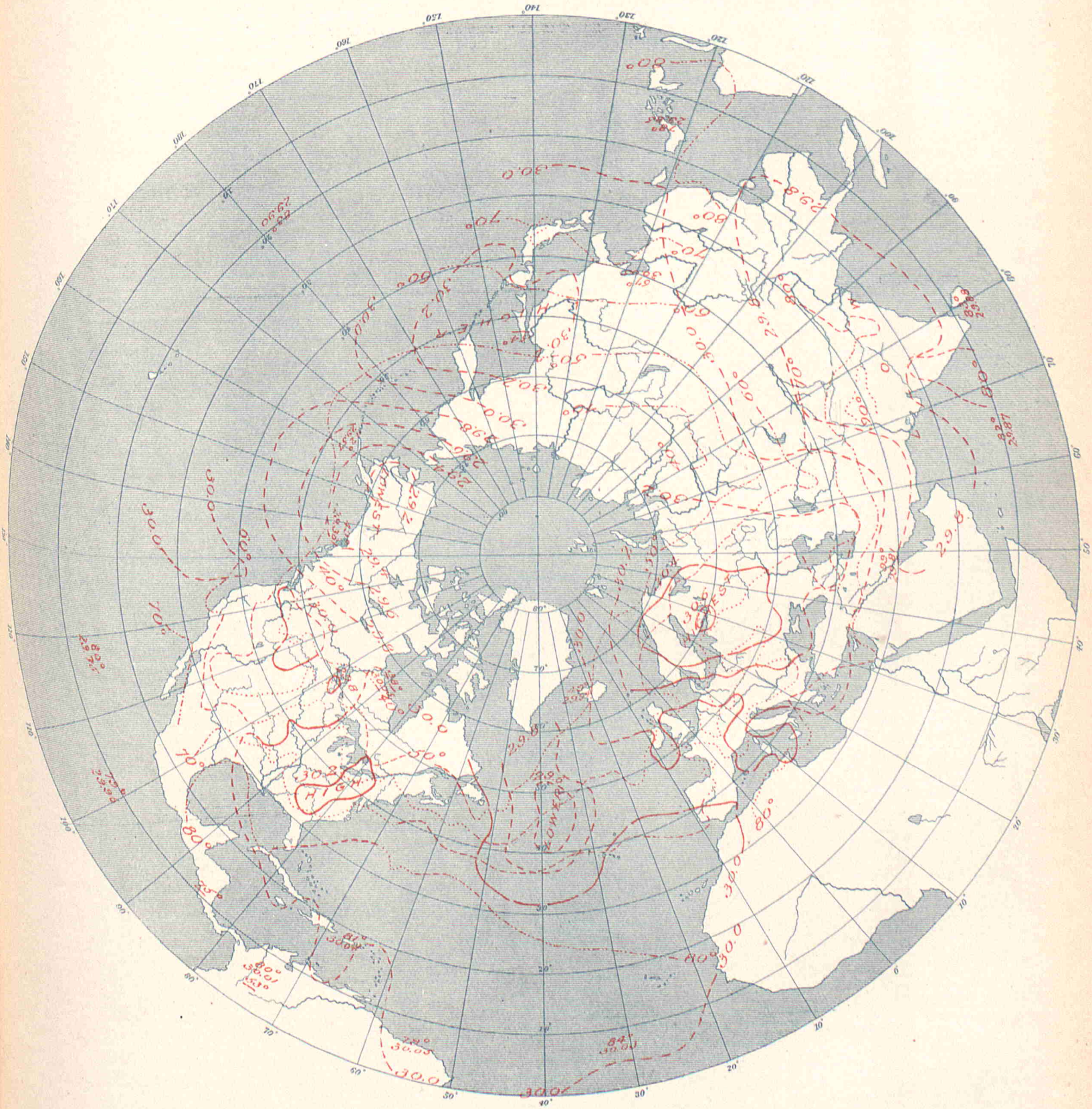
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.53	724.6	29.91	759.7	57.9	14.4	85	sw.	5	2.2		3 cs	4 s	w.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.14	765.5	63.0	17.2	78	calm	0	0		2 c	0	w.		0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.97	761.2	80.0	26.7	91	s.	7	3.1		5 cs	1 s	w.	s.	0.25	6.3	fair	I. A. Reed.
Jacksonville Florida	30.09	764.3	30.13	765.3	74.0	23.3	97	e.	8	3.6		2 cs	7 s		e.	2.43	61.7	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.41	747.0	30.06	763.5	68.0	20.0	78	s.	2	1.3		hz.	0			0	0	dense haze	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	81.0	27.2	79	e.	6	2.7			10 s		e.	0.50	12.7	threatening	A. W. Browne.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	71.5	21.9	90	n.	10	4.5			10n;k		n.	inap.	inap.	light rain	H. Mc P. Baldwin.
Knoxville, Tennessee	29.20	741.7	30.22	767.6	64.2	17.8	83	calm	0	0		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.01	762.2	64	17.8	84	s.	6	2.7			10 s			0.01	0.3	cloudy	S. C. Emery.
Leavenworth, Kansas	29.10	739.1	29.98	761.5	67	19.4	93	calm	0	0			10 s		sw.	0.25	6.3	cloudy	T. S. Outram.
Lewiston, Idaho	29.15	740.4	29.98	761.5	48.0	8.9	63	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.75	755.6	30.06	763.5	69	20.6	90	calm	0	0		3 cs	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.55	750.6	29.94	760.5	64	17.8	90	calm	0	0			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.13	765.3	67	19.4	78	calm	0	0		5 c	sk.	w		0	0	fair	L. M. Dey.
Lynchburg, Virginia	29.50	749.3	30.18	766.6	63.3	17.4	91	sw.	1	0.4		0	fg.			0	0	clear	Lou's Duane.
Mackinaw City, Michigan	29.47	748.5	30.12	765.0	58.2	14.6	88	e.	4	1.8		0	8 s		nw.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	72.0	22.2	97	nw.	4	1.8			10 n		nw.	1.48	37.6	light rain	William Daly.
Maginnis, Fort, Montana	25.74	653.8	30.14	765.5	44	6.7	41	e.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.33	745.0	30.05	763.3	60.5	15.8	84	se.	1	0.4			10 s			0.05	1.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.10	764.5	70	21.1	84	calm	0	0		5 cs	fg.	nw.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.34	745.2	30.08	764.0	62	16.7	84	s.	5	2.2		9 c	fg.	sw.		0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	75	23.9	90	ne.	4	1.8		3 c	6 s	w.	e.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.93	760.2	30.16	766.1	71	21.7	90	e.	4	1.8		4c;cs	1 k	e.	e.	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.86	733.0	29.85	758.2	60	15.6	81	s.	5	2.2			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.03	610.4	30.18	766.6	49.0	9.4	100	ne.	12	5.4			fg.		ne.	0.31	7.9	dense fog	S. W. Beall.
Nashville, Tennessee	29.60	751.8	30.17	766.3	66.0	18.9	90	e.	4	1.8		7 c	0	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.13	765.3	65	18.3	78	n.	6	2.7		5 c	0			0	0	fair	J. H. Sherman.
New London, Connecticut	30.10	764.5	30.14	765.5	68	20.0	78	nw.	1	0.4		4 c	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	76.0	24.4	94	se.	1	0.4		4 c	0	w		0.23	5.8	fair	M. Herman.
New York, New York	29.99	761.7	30.16	766.1	67	19.4	84	w	5	2.2		7 cs	0	w.		0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.14	765.5	30.17	766.3	72.0	22.2	90	nw	3	1.3			10 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.06	687.3	29.94	760.5	53.6	12.0	84	w	4	1.8		0	4 s			0.66	16.8	fair	E. F. Brady.
Olympia, Washington T'y	29.96	761.0	30.00	762.0	46.0	7.2	96	calm	0	0			fg.			0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.83	732.3	30.00	762.0	66.0	18.9	93	calm	0	0		0	6s;fg		s.	0	0	fair	A. Pollak.
Oogiaamie, Alaska																			P. H. Ray.
Oswego, New York	29.90	759.4	30.22	767.6	61.0	16.1	93	w.	6	2.7			fg.		w.	0.01	0.3	dense fog	J. G. Linsley
Palestine, Texas	29.48	748.8	30.03	762.7	76.0	24.4	97	s.	10	4.5		3 ck	5 ks	sw.	s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	75.2	24.0	87	ne.	8	3.6		0	9 s		e.	inap.	inap.	cloudy	M. McGauran.
Philadelphia, Pa	30.09	764.3	30.19	766.8	69	20.6	90	n.	8	3.6		8ck;cs	fg.	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	29.91	759.7	21	— 6.1	91	nw.	12	5.4		0	0			0.08	2.0	clear	H. Hall.
Pittsburg, Pennsylvania	29.42	747.3	30.21	767.3	61.0	16.1	93	calm	0	0		9 cs	fg.	w.		0	0	cloudy	G. C. Schaeffer.
Poplar River, Montana					49	9.4	50	sw.			1	2 c	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.49	749.0	30.16	766.1	57.0	13.9	93	s.	4	1.8		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.04	763.0	30.09	764.3	63	17.2	93	calm	0	0			10s;fg			0.28	7.1	cloudy	W. W. Eichelberger.
Portland, Oregon	29.87	758.7	29.94	760.5	53.0	11.7	86	nw	1	0.4		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.92	760.0	44	6.7	58	w.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.04	763.0	30.08	764.0	64	17.8	92	n.	4	1.8			10s;fg			0	0	cloudy	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.52	749.8	29.86	758.4	58	14.4	69	se.	6	2.7		2 k	hz.	s.		0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.36	745.7	29.90	759.4	52.2	11.2	78	nw.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.79	756.7	29.86	758.4	59.0	15.0	75	s	10	4.5		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.50	749.3	30.11	764.8	70.0	21.1	62	se.	8	3.6		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.03	737.3	29.06	738.1	43.5	6.4	87	n.	23	10.3			10 s		n.	0.07	1.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.11	739.4	29.96	761.0	62.0	16.7	93	se.	5	2.2		9 cs	0			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.92	734.6	29.79	756.7	54	12.2	100	s.	6	2.7			fg.			0	0	dense fog	C. B. Dilley
Salt Lake City, Utah	25.65	651.5	29.90	759.4	50	10.0	48	se.	3	1.3		3 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.84	757.9	29.91	759.7	67.0	19.4	78	w.	3	1.3			10 s		e.	0	0	cloudy	F. R. Day.
Sanford, Florida	30.02	762.5	30.07	763.8	75.5	24.2	88	se.	3	1.3		8 c	0	e.		0.01	0.3	cloudy	J. B. Marbury.
Sandusky, Ohio	29.52	749.8	30.19	766.8	62.5	16.9	90	se.	4	1.8		0	fg.			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	67.0	19.4	84	nw.	7	3.1		10 k	0			0	0	cloudy	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	58	14.4	90	s.	5	2.2			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	72	22.2	97	n.	1	0.4			fg.			0.66	16.8	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.40	670.5	30.01	762.2	35	1.7	89	w.	2	0.9		1 cs	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	71.2	21.8	84	se.	2	0.9		5 ck	0	s.		0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.78	731.0	30.00	762.0	64	17.8	97	e.	4	1.8		0	5 n		s.	1.30	33.0	light rain	W. M. Mattingly.
Sitka, Alaska	29.32	744.7	29.38	746.2	49	9.4	82	se.	32	14.3			10 n		se.	2.42	61.5	heavy rain	F. W. Fickett.
Smith, Fort, Arkansas	29.53	750.0	30.00	762.0	70.1	21.2	66	e.	6	2.7		2 c	sk.			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.15	765.8	30.19	766.8	70.5	21.4	92	ne.	3	1.3			10 s		w.	0.11	2.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	30.01	762.2	41	5.0	67	calm	0	0			0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.13	747.5	30.10	764.5	62	16.7	78	s.	5	2.2		7 c	0	w.		0	0	fair	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	26.98	685.3	29.94	760.5	67	19.4	84	w.	6	2.7		0	3 s			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					48.5	9.2	41	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.49	749.0	30.17	766.3	62	16.7	100	ne.	3	1.3			fg.			0	0	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.54	750.3	29.57	751.1	42	5.6	73	nw.	12	5.4			10 ks		nw.	0.12	3.0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					53	11.7	42	nw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.83	757.7	30.08	764.0	72.0	22.2	84	se.	4	1.8		4 c	hz.	se.		0	0	fair	James Keneally.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.09	764.3	30.20	767.1	68.6	20.3	91	calm	0	0		0	4s;fg		w.	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.06	661.9	29.88	758.9	50.5	10.3	96	w.	3	1.3		0	2 s			0.24	6.1	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	71.0	21.7	90	calm	0	0			10 s			4.88	123.9	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.64	727.4	29.93	760.2	63.1	17.3	93	se.	2	0.9			10 s		se.	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.66	753.4	29.80	756.9	64.6	18.1	50	ne	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1		10 n		n.	0.25	6.3	drizzling	W. H. Jackson.
Bogota, U. S. C.	22.08	560.8			53.2	11.8	71	nw.	7	3.1			10ks;n		nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	70.3	24.6	97	calm	0	0			10 n;s		e.	0.35	8.9	light rain	Robert Johnstone
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	82	se.			2	5 ck	4 k	se.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	80	26.7	95	s.			1	2 ck	8 ks	calm	calm	0	0	cloudy	Francisco J. Olmeros.
Rivas, Nicaragua, C. A.					75	23.9	90	se.			1	10 ck		se.		1.08	27.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	29.98	761.5	30.05	763.3	38.0	3.3	90	sw.	12	5.4		1 c	2 s	s.	sw.	0	0	fair	Robesone & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	30.13	765.3	84	28.9	71	wsw.			1		0					sm'h		blue sky.
H. M. S. Coquette, N. 36° 20′, E. 22° 20′	30.07	763.8	80	26.7		ese.			4		3	ese.				4	ese.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.17	766.3	80	26.7	76	ese.			1		3	ese.						d. clouds.
H. M. S. Griffon, N. 30° 24′, W. 72° 30′	30.17	766.3	80	26.7	100	ene.			7		2	e.				2	se.	showery.
H. M. S. Iris, off Port Said, Egypt	29.95	760.7	79	26.1	78	nnw.			3		3							d. clouds.
H. M. S. Tenedos, N. 46° 12′, W. 60° 08′	30.14	765.5	58	14.4	88	ene.			1		10	ene.						overcast.
H. M. S. Tyne, N. 44° 35′, W. 9° 09′	29.93	760.2	65	18.3	78	nw.			3		10	calm				2	w.	overcast.
U. S. Navy Yard, Portsmouth, N. H *	30.04	763.0	65	18.3	84	calm	0	0			10			0	0			foggy.
U. S. S. Alliance, N. 44° 23′ W. 63° 10′	30.14	765.5	60	15.6	88	ese.			3		2		calm	0	0	mod	e.	clear.
U. S. S. Galena, Brooklyn, N. Y	30.15	765.8	72	22.2	90	nw.			1		5		nw.			sm'h		fair
U. S. S. Jamestown, Funchal, Madeira	30.06	763.5	76	24.4	86	s.			2		8		s.			sm'h		fair.
U. S. S. Kearsarge, N. 40° 16′, W. 21° 33′	30.07	763.8	70	21.1	70	s.			3		5					sm'h		fair.
U. S. S. Lancaster, Port Mahon, Spain	30.03	762.7	73	22.8	95	se.			1		5		w.			sm'h		fair.
U. S. S. Portsmouth, Provincetown, Mass	30.07	763.8	64	17.8	100	nnw.			2		2?		n.					cloudy?
U. S. S. Powhatan, St. Johns, N. F	30.14	765.5	51	10.6	86	ne.			2		10		ne.					cloudy.
U. S. S. Quinnebaug, N. 3° 27′, E. 1° 54′			77	25.0	66	e.			1		2		e.			sm'h		fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.07	763.8	66	18.9	94	sw.			1		8		sw.	0	0	sm'h		cloudy.
U. S. S. Swatara, Picton, N. S.	30.16	766.1	62	16.7	77	sw.			1		8		calm	0	0	sm'h		fair.
U. S. S. Vandalia, Arichat, Madame Island, N. S	30.13	765.3	59	15.0	94	ene.			1		5							fair.
U. S. S. Yantic, St Johns, N. F	30.14	765.5	50	10.0	79	ne.			2–3		8							cloudy.
S. S. British Princess, N. 49° 00′ W. 34° 00′ †	29.53	750.0	59	15.0		ese.			4		10			0	0	mod	e.	cloudy.
S. S. Lord Gough, N. 48° 00′, W. 28° 41′	29.87	758.7	47	8.3		wnw.			5		10		nnw.	0	0	mod.	n.	overcast.
S. S. Ohio, N. 51° 10′ W. 23° 19 †	29.90	759.4	59	15.0	88	ssw.			5		9		ssw.	0	0			hazy.
S. S. Grecian, Glasgow, Scotland	30.07	763.8	62	16.7	88	ene.			3		10		ene.	0	0	mod.	n.	overcast
S. S. Polynesian, N. 51° 12′ W. 57° 19′	30.00	763.5	47	8.3		sw.			3		9		wnw.	0	0	sm'h		cloudy.
S. S. Prussian, N. 52° 58′, W. 33° 14′	29.82	757.4	56	13.3		ese.			3		9		se.	2 h'r	2 h'r	mod.	se.	cloudy
S. S. Scandinavian, Glasgow, Scotland	30.00	762.0	60	15.6		ene.			3		10		ene.					misty.
S. S. Alvo, Aux Cayes, Hayti, W. I			80	26.7		ene.			1–2		10		calm	3 h'r	3 h'r			squally.
S. S. Andes, N. 39° 20′, W. 72° 40′ *†	30.20	767.1				calm			0		8			0	0	sm'h		
S. S. Avilla, Arroyo, Porto Rico, W. I*†	30.06	763.5	82	27.8		e.			3		3		e.	rain	rain	r'gh	e.	
S. S. Australia, N. 42° 04′, W. 42° 13′*†	29.64	752.8	63	17.2		wnw.			6		2		wnw.	3 h'r	3 h'r		wnw.	clear.
S. S. Devonia, N. 43° 58′, W. 56° 50′ *†	30.17	766.3	59	15.0		ene.			1		4		ene.	0	0	sm'h		clear.
S. S. Dorian, Leghorn, Italy	29.98	761.5				calm			0					0	0			
S. S. Furnesia, N. 50° 25′ W. 27° 36′†	29.83	757.7	61	16.1	82	se.			5		6		se.	0	0	r'gh	e.	
S. S. Cephalonia, N. 50° 35′, W. 23° 16′	29.96	761.0	58	14.4	?	e.			1		7		wsw.	1 h'r	1 h'r	sll't	wsw.	d. clouds.
S. S. Bothnia, N. 41° 17′, W. 57° 10′	30.06	763.5	82?	27.8?		ene.			1		10		nne.	4 h'r	4 h'r	sm'h		foggy.
S. S. Samaria, Boston, Mass*	30.10	764.5	69	20.6		calm			0		hz.			0	0			
S. S. France, N. 44° 45′, W. 50° 35′†	29.99?	761.7?	53.6	12		nne.			4		8		nne.	0	0	sm'h	n.	fair.
S. S. Arizona, N. 48° 52′, W. 44° 40′	29.79	756.7	52	11.1		wnw.			6		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Wyoming, N. 45° 27′, W. 50° 23′	30.01	762.2	52	11.1		nnw.			3		2		nw.	0	0	mod.	ne.	fair.
S. S. Bohemia, New York, N. Y†	30.22	767.6				nw.			3		8		nw.	0	0			fair.
S. S. Frisia, N. 44° 20′, W. 50° 57′	30.07	763.8				n.			3		1		n.	0	0	mod.	n.	clear.
S. S. Gellert, N. 41° 03′, W. 63° 12′	30.10	764.5	73	22.8	81	n.			1		8		nw.	0	0	sm'h	n.	cloudy
S. S. Rugia, N. 49° 52′, W. 5° 17′	29.99	761.7	55	12.8		calm			0		5		w.	0	0	sm'h	w.	hazy.
S. S. Westphalia, New York, N. Y	30.16	766.1	69	20.6	85	n.			3		3		n.	0	0			fair.
S. S. Rhaetia, N. 43° 00′, W. 58° 21′			58	14.4		w.			2		3?		w.	0	0	sm'h	e.	cloudy?
S. S. Nessmore, N. 51° 27′, W. 15° 30′*	29.97	761.2	57	13.9	100	wnw.			4		10		wsw.	24 h'r	24 h'r	long	nnw.	misty.
S. S. Archimedes, N. 40° 23′, W. 66° 07′	30.13	765.3				w.			1–2		9		wsw.	0	0	light	wsw.	fine.
S. S. Hevelius, N. 1° 30′, W. 33° 30′			80	26.7		se.			2		1		se.	1 h'r	1 h'r	long	se.	clear.
S. S. Sirius, N. 47° 50′, W. 8° 16′	29.91	759.7				sse.			3		8		sse	0	0	cross	var.	hazy.
S. S. Rio Grande, Galveston, Texas†	30.00	762.0	89	31.7		sse.			2		3		ese.	sh'rs	sh'rs			fair.
S. S. Chalmette, N. 26° 25′, W. 79° 45′†	30.09	764.3	82	27.8		ene.			6		6		ene.	2 h'r	2 h'r	mod.	e.	fair.
S. S. Lone Star, N. 38° 36′, W. 74° 28′*†	30.20	767.1	70	21.1		calm			0		10			2 h'r	2 h'r	sm'h		drizzling.
S. S. Alleghany, Norfolk, Va†	30.21	767.3	72	22.2		e.			1		8		ne.					light rain.
S. S. Archimede, Messina, Sicily†	30.07	763.8	82	27.8		ne.			2		2		ne.	1 h'r	1 h'r			clear.
S. S. City of Merida, N. 34° 36′, W. 76° 00′*	30.12	765.0	78	25.6		sw.			1		8		sw.	0	0	mod.	se.	cloudy
S. S. City of Washington, N. 21° 20′ W. 89° 38′ *†	30.05?	763.3?	84	28.9		ne.			3		5		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 29° 15′, W. 76° 26′*	30.12	765.0	81	27.2		se.			3		0			0	0		se.	clear
S. S. Denmark, N. 44° 12′, W. 46° 30′†	29.88	758.9	55	12.8		nnw.			6		10		nnw.	8 h'r	8 h'r	mod.	nw.	cloudy.
S. S. Egypt, N. 40° 36′, W. 68° 41′	30.19?	766.8?	66	18.9		w.			3		10			0	0	mod.	wsw.	foggy.
S. S. England, New York, N. Y	30.12	765.0				nw.			2		8		nw.	0	0			cloudy.
S. S. Greece, N. 49° 28′, W. 16° 08′	30.00	762.0	57	13.9	94	n.			4		8		n.	8 h'r	8 h'r	mod	n.	cloudy.
S. S. The Queen, N. 50° 36′, W. 22° 13′	29.87	758.7	65	18.3		ese.			3		2		s.	0	0	mod.	wnw.	fine.
S. S. America, N. 49° 30′, W. 23° 30′*	29.92	760.0	61.0	16.1	74	ese.			4		10		ese.	2 h'r	2 h'r	sm'h	ese.	raining.
S. S. Donau, N. 43° 03′, W. 56° 54′	30.14	765.5				e.			3		5		e.	3 h'r	3 h'r	mod.	e.	fair.
S. S. Elbe, N. 49° 47′, W. 16° 23′	29.99	761.7	58.1	14.5	94	nnw.			5		10		nnw.	2 h'r	2 h'r	mod.	nw.	misty.
S. S. Habsburg, N. 49° 30′, W. 30° 53′	29.66	753.4				se.			6		9		sse.	3 h'r	3 h'r	long	sse.	cloudy.
S. S. Hermann, N. 49° 52′, W. 10° 00′	29.97	761.2	64.4	18.0	85	ene.			1		10		ene.	0	0	long	wnw.	covered.
S. S. Main, N. 49° 48′ W. 31° 52′	29.66	753.4	59.0	15.0		sse.			3		7		s.	2 h'r	2 h'r	mod	s.	fair.
S. S. Oder, N. 40° 31′, W. 72° 48′	30.13	765.3	65.3	18.5		wnw.			2		5		wnw.	0	0	sm'h	s.	hazy.
S. S. Ohio, N. 38° 31′, W. 70° 28′	30.15	765.8				w.			2		1		wsw.	0	0	sm'h		clear.
S. S. Strassburg, off Norderney Island, Prussia	29.98	761.5				ese.			3		0			0	0	1	ese.	hazy.
S. S. Weser, N. 44° 35′, W. 33° 06′	29.54	750.3	66.2	19.0		ssw.			5		10		sw.	2 h'r	2 h'r	r'gh	ssw.	squally.
S. S. City of Augusta, New York, N. Y †	30.19	766.8				nw.			3		4		ssw.	0	0			smoky.
S. S. Muriel, Saint Thomas, W. I	30.00	762.0	84	28.9		ene.			3		0			h'vy	h'vy	sm'h		clear.
S. S. Orinoco, N. 34° 27′, W. 66° 52′ *†	30.14	765.5	81	27.2		wsw.			1		2		wsw.	1 h'r	1 h'r	light	s.; e.	clear.
S. S. Nederland, N. 40° 39′, W. 67° 54′			71	21.7	95	w.			3		2		w.	0	0	sm'h		clear.
S. S. Rhynland, N. 47° 34′, W. 43° 16′	29.70	754.4	58	14.4	94	nne.			6		8		n.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Pennland, Antwerp, Belgium	29.89	759.2	68	20.0	90	nnw.			2		0			3 h'r	3 h'r			hazy.
S. S. Switzerland, N. 49° 19′ W. 34° 10′*†	29.63	752.6				e.			4		10		e.	4 h'r	4 h'r	r'gh	e.	raining.
S. S. Vaderland, Antwerp, Belgium			75	23.9		ssw.			2		2		w.	0	0			clear.
S. S. Waesland, New York, N. Y	30.16	766.1	67	19.4		nw.			2		7		nw.	0	0			fair.
S. S. Zeeland, N. 44° 07′, W. 52° 51′			50	10.0		nw.			3		1		w.	0	0	light	w.	clear.
S. S. W. A. Scholten, Rotterdam, Holland	29.98	761.5	60.8	16.0	84	e.			1		8		e.					cloudy.
S. S. Valencia, N. 39° 13′, W. 73° 32′†	30.19	766.8	71	21.7	85	calm			0		9		wnw.					
S. S. Caracas, Puerto Cabello Venezuela*†	30.00	762.0	80.5	26.9	89	calm			0		5		calm	1 h'r	1 h'r	sm'h		hazy.
S. S. State of Indiana, N. 41° 25′, W. 64° 16′ *†	30.10	764.5	68	20.0		nw.			1		8		w.	0	0	sm'h		foggy.
S. S. State of Nevada, N. 54° 43′, W. 17° 08′	29.98	761.5	54	12.2		nne.			4		10		nne.	0	0	mod.	nne.	overcast.
S. S. Thingvalla, Copenhagen, Denmark†	30.24	768.1	59.0	15.0		ese.			2		2		ese.	0	0			clear.
S. S. Romano, Hull, Eng*†	30.05?	763.3?				e.			2		9		e.	3 h'r	3 h'r			
S. S. Salerno, N. 40° 52′, W. 64° 46′			72	22.2		n.			2		10		n.	0	0	sm'h		hazy.
S. S. Dominion, N. 56° 00′, W. 21° 00′ *†	30.00	762.0	59	15.0		nnw.			2		10		nw.			sm'h	s.	hazy.
S. S. Oregon, N. 52° 15′, W. 54° 00′	29.95	760.7	41	5.0		calm			0		8		wsw.			light	n.	cloudy.
S. S. Texas, N. 56° 30′, W. 20° 56′*†	29.98	761.5	56	13.3	81	n.			3		1		wnw.	8 h'r	8 h'r	sm'h		showery.
S. S. Daniel Steinmann, N. 50° 14′, W. 30° 21′*†	30.00	762.0	67	19.4		calm			0		0			0	0	sm'h		misty.
S. S. Saxon, Boston, Mass†	30.15	765.8				calm			0					0	0			dense fog.
S. S. Adriatic, N. 40° 30′, W. 63° 00′*†	30.10	764.5	71	21.7		n.			3				ne.			sm'h	ne.	overcast.
S. S. Britannic, N. 40° 42′ W. 70° 30′†	30.17	766.3	62	16.7		w.			2		2		w.	2 h'r	2 h'r	sm'h		drizzling.
S. S. Celtic, Liverpool, Eng			64	17.8	78	ne.			3		8		ne.	0	0	sm'h		cloudy.
S. S. Germanic, N. 50° 32′, W. 18° 55′*†	30.02	762.5	57	13.9		ne.			2		4		ene.	0	0	light	nnw.	fair.
S. S. Republic, N. 50° 31′, W. 32° 12′ *†	29.73	755.1	59	15.0	82	se.			4		3		se.	2 h'r	2 h'r	mod.	nw.	d. clouds.
S. S. Amsterdam, N. 48° 26′, W. 35° 00′*	29.52	749.8	57.2	14		s.			4								nw.	cloudy.
S. S. Algiers, N. 32° 35′ W. 79° 37′*†	30.25?	768.3?				sw.			1								ene.	squally.
S. S. City of Alexandria, N. 19° 59′, W. 93° 54′*†	29.92	760.0	85	29.4		ese.			4							small	ene.	d. clouds.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Arda, N. 52° 06′, W. 6° 20′†	29.96	761.0	.....	.....	.....	ne.	.....	.....	1	.....	1	.....	calm.	0	0	.....	.....	hazy.
Bk. Alpheus Marshall N. 36° 06′ W 55° 30′ *†	30.11	764.8	79	26.1	91	nnw.	.....	.....	3	.....	4	.....	n.	1 h'r	1 h'r	sm'h	nw.	fair.
Bk. Ariadne, Staten Island, N. Y	30.17	766.3	69	20.6	90	wnw.	.....	.....	2	.....	3	.....	wnw.	0	0	.....	.....	clear.
Schr. Abbie H. Gheen, N. 40° 00′, W. 73° 10′†	30.23?	767.8?	66	18.9	.....	wnw.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
S. S. Antonio Lopez, N. 32° 25′, W. 46° 00′	30.02	762.5	76.5	24.7	93	w.	.....	.....	4	.....	10	.....	.....	2 h'r	2 h'r	mod.	w.	squally.
Bk. Aquidneck, N. 37° 48′, W. 74° 22′*†	30.20	767.1	79	26.1	.....	sw.	.....	.....	1	.....	.....	.....	sw.	.....	.....	light	ese.	fair.
Bgt. Achsah, N. 32° 47′, W. 63° 15′†	30.19	766.8	83	28.3	.....	nnw.	.....	.....	2	.....	1	.....	ne.	0	0	long	se.	clear.
Bk. Aureola, N. 10° 11′, W. 26° 53′†	29.88?	758.9?	94?	34.4?	.....	wsw.	.....	.....	4	.....	6	.....	w.	1 h'r	1 h'r	mod.	ssw.	fair.
Bk. Adelaide, N. 21° 39′, W. 44° 57′*†	30.08	764.0	.....	.....	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	mod	e.	hazy.
S. S. Cannonbury, Fajardo, Porto Rico, W. I*†	30.11	764.8	.....	.....	.....	ese.	.....	.....	5	.....	4	.....	e.	rain	rain	sm'h	ese.	fair.
Bk. Celestina, Genoa, Italy*†	30.02	762.5	.....	.....	.....	ese.	.....	.....	2	.....	5	.....	e.	4 h'r	4 h'r	sm'h	.....	fair.
Bk. Ceylon, N. 39° 03′, W. 63° 43′†	30.07	763.8	.....	.....	.....	n.	.....	.....	5	.....	3	.....	sw.	0	0	.....	.....	clear.
Schr. C. R. Flint, N. 34° 10′, W. 62° 35′†	30.11	764.8	79	26.1	86	w.	.....	.....	1	.....	8	.....	calm	1 h'r	1 h'r	chop	nw.	squally.
Bk. Cato, N. 36° 45′, W. 2° 00′†	30.19	766.8	78	25.6	.....	wnw.	.....	.....	1	.....	6	.....	wsw.	0	0	mod.	w.	fair.
Bk. Don Justo, N. 58° 50′, W. 17° 00′	30.02	762.5	.....	.....	.....	e.	.....	.....	2	.....	1	.....	e.	.....	.....	.....	.....	clear.
Bg. Daphne, N. 38° 27′, W. 73° 41′*†	.....	.....	.....	.....	.....	e.	.....	.....	1	.....	10	.....	e.	0	0	light	wnw.	overcast.
Bk. Childwall, N. 28° 21′, W. 21° 28′*	30.30?	769.6?	73	22.8	.....	calm	.....	.....	0	.....	fg.	.....	calm	0	0	sm'h	sw.	foggy.
S. S. D. J. Foley, N. 21° 46′, W. 74° 20′*†	30.04	763.0	76	24.4	91	ese.	.....	.....	2	.....	8	.....	ese.	0	0	sm'h	.....	cloudy.
Bkt. David A. Preston, Windsor, N. S	30.00	762.0	84	28.9	79	e.	.....	.....	3	.....	5	.....	e.	0	0	short	e.	fair.
S. Dora, N. 43° 05′, W 51° 13′*†	.....	.....	.....	.....	.....	se.	.....	.....	3	.....	5	.....	calm	0	0	.....	.....	
S. David Stewart, N. 18° 23′, W. 56° 41′	30.02	762.5	53.6	12.0	.....	nnw.	.....	.....	4–5	.....	3?	.....	nnw.	0	0	mod.	n.	cloudy.?
S. E. J. Spicer, Antwerp, Belgium	.....	.....	88	31.1	.....	ene.	.....	.....	3	.....	.....	.....	.....	½ h'r	½ h'r	mod.	ene.	
Schr. Edith R. Seward, Brunswick, Ga	29.86	758.4	68	20.0	90	ssw.	.....	.....	2	.....	5	.....	sw.	sq'lls	sq'lls	.....	.....	fair.
Bk. E. D. Bigelow, Galveston, Texas †	.....	.....	76	24.4	.....	ne.	.....	.....	1	.....	7	.....	nne.	6 h'r	6 h'r	.....	.....	cloudy.
Bk. Edmund Phinney, N. 27° 40′, W. 66° 53†′	30.04	763.0	87	30.6	.....	s.	.....	.....	2	.....	2	.....	sse.	0	0	.....	.....	fair.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.20	767.1	84	28.9	.....	ese.	.....	.....	4	.....	2	.....	ese.	0	0	r'gh	ese.	clear.
S. Gatherer, N. 6° 33′, W. 31° 24′ *	30.10	764.5	66	18.9	.....	wsw.	.....	.....	2	.....	9	.....	sw.	0	0	.....	.....	cloudy.
Bg. George, Arroyo, Porto Rico, W. I *†	30.03	762.7	84	28.9	71	calm.	.....	.....	0	.....	6	.....	.....	0	0	sm'h	se.	fair.
Bk. Galeon, N. 38° 44′ W. 14° 55′†	30.01	762.2	81	27.2	.....	ene.	.....	.....	2	.....	10	.....	ene.	rain	rain	.....	.....	squally.
Bk. Grey Eagle, N. 18° 57′, W. 43° 55′	30.05	763.3	69	20.6	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	n.	blue sky.
S. Hedwig, off Gibralter, Med	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	2	.....	ene.	0	0	sm'h	e.	clear
Schr. Isabel Alberto, Key West, Fla	30.04	763.0	70.5	21.4	80	wsw.	.....	.....	2	.....	5	.....	wsw.	0	0	1	w.	
Bk. Johanne, N. 59° 25′, W. 7° 02′*†	30.00	762.0	.....	.....	.....	ese.	.....	.....	2	.....	5	.....	e.	sh'rs	sh'rs	.....	.....	squally.
Schr. John L. Thomas, N. 24° 37′, W. 80° 14′ *†	30.12	765.0	58	14.4	.....	e.	.....	.....	2	.....	5	.....	ese.	0	0	mod.	e.	hazy.
Bg. Josefa, N. 51° 12′, W. 7° 15′†	30.04	763.0	85	29.4	83	e.	.....	.....	3	.....	4	.....	e.	0	0	mod.	ene.	fair.
Bk. Lady Hincks, N. 33° 25′, W. 30° 31′ *†	29.98	761.5	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	foggy.
Bg. L. & W. Armstrong, Ft. Royal, Martinique, W.I*†	30.00	762.0	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	0	0	.....	.....	fair.
S. S. Madrid, Kertch, Russia†	29.92	760.0	.....	.....	.....	ene.	.....	.....	1	.....	3	.....	ene.	2 h'r	2 h'r	sm'h	.....	
Schr. Norena, off Cape Cod, Mass	30.22	767.6	67	19.4	74	ne.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Orpheus, N. 57° 28′, W. 29° 57′	.....	.....	.....	.....	.....	baff	.....	.....	2	.....	fg.	.....	.....	0	0	light	se.	dense fog.
Bg. Rising Sun, N. 32° 35′, W. 73° 13′†	29.83	757.7	52	11.1	.....	e.	.....	.....	5	.....	10	.....	.....	0	0	mod.	se.	cloudy
Bk. Rosalie, N. 52° 10′, W. 6° 10′ *†	30.16	766.1	83	28.3	.....	sse.	.....	.....	1	.....	1	.....	sse.	0	0	mod.	se.	clear.
Bgt. Sunlight, N. 60° 58′ W. 58° 05′*†	30.03	762.7	.....	.....	.....	nne.	.....	.....	2	.....	.....	.....	.....	0	0	sm'h	.....	hazy.
Bk. Southern Belle, off Cape Palos, Spai .†	30.00	762.0	.....	.....	.....	se.	.....	.....	2	.....	9	.....	se.	0	0	sm'h	.....	cloudy.
Bg. Teneriffe, N. 45° 00′, W. 61° 05′*	29.95	760.7	76	24.4	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Tuck Sing, N. 23° 48′, W. 82° 16′*†	30.08	764.0	.....	.....	.....	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	fine.
Schr. Viola Reppard, Brunswick, Ga†	29.94	760.5	.....	.....	.....	ese.	.....	.....	3	.....	8	.....	e.	½h'r	½h'r	light	ene.	squally.
Bkt. Willie, N. 4° 00′, W. 25° 15′*†	30.12	765.0	78	25.6	.....	n.	.....	.....	1	.....	8	.....	s.	6 h'r	6 h'r	.....	.....	cloudy.
	30.02	762.5	84	28.9	.....	s.	.....	.....	4	.....	4	.....	s.	0	0	mod.	se.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 18° 28′, W. 38° 53′	30.15	765.8	75.5	24.2	77	e.	.....	.....	4	.....	3	ene.	.....	.....	.....	2	ene.	blue sky.
H. M. S. Opal, S. 13° 39′, E. 3° 37′	30.08	764.0	65	18.3	89	sse.	.....	.....	4	.....	5	sse	.....	.....	.....	4	ssw	d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.65	778.5	53.7	12.1	93	ne.	.....	.....	4	.....	3	calm	.....	.....	.....	3	ene.	d. clouds.
U. S. S. Rainha de Portugal, Landana, L. Guinea	29.96	760.9	76.1	24.5	82	ssw.	.....	.....	3	.....	4	ssw.	.....	0	0	2	ssw.	d clouds.
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.64	778.2	54	12.2	80	e.	10	4.5	.....	.....	2	.....	calm	0	0	sm'h	.....	fair.
Bk. E. L. Pettingill, S. 2° 10′, W. 28° 30′*†	30.60	777.2	55	12.8	62	ne.	.....	.....	4	.....	2	.....	e.	.....	.....	sm'h	.....	fair.
Bk. Great Surgeon, S. 32° 50′, W. 19° 00′*†	30.20	767.1	78	25.6	.....	se.	.....	.....	4	.....	5	.....	sse.	0	0	mod.	sse.	
Bk. Godeffroy, S. 49° 25′, W. 00° 51′	30.20	767.1	66	18.9	.....	w.	.....	.....	4	.....	10	.....	sw.	12 h'r	12 h'r	long	sw.	cloudy.
Schr. Jas Slater, Para, Brazil†	30.22	767.6	39.6	4.2	93	nw.	.....	.....	5	.....	10	.....	.....	.....	.....	sm'h	nw.	cloudy.
Bkt. Louise Adelaide, S. 27° 55′, W. 43° 55′†.	29.99	761.7	83	28.3	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Mohican, S. 0° 44′, W. 29° 30′	30.47	768.8	70	21.1	.....	sse.	.....	.....	5	.....	3	.....	sse.	4 h'r	4 h'r	chop	s.	fair.
S. S. Olbers, Rio de Janeiro, Brazil	29.90	759.4	82	27.8	.....	se.	.....	.....	3	.....	0	.....	.....	0	0	short	ssw.	hazy.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.35	770.9	68	20.0	95	sse.	.....	.....	6	.....	10	.....	sse.	12 h'r	12 h'r	sli't.	s.	raining.
Bg. John Wesley, S. 25° 03′, W. 33° 23′ *†	30.19	766.8	62	16.7	.....	ese.	.....	.....	2	.....	1	nnw.	.....	.....	.....	.....	.....	blue sky
	30.24	768.1	73	22.8	.....	nnw.	.....	.....	1	.....	9	.....	s.	0	0	sm'h	s.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 16′, E. 135° 12′	30.20	767.1	63	17.2	89	s.	.....	.....	1	.....	0	.....	.....	.....	.....	2	sw.	blue sky.
H. M. S. Flying Fish, N. 37° 21′, E. 125° 55′	30.13	765.3	74	23.3	79	nne.	.....	.....	3	.....	0	.....	.....	.....	.....	1	ne	blue sky.
H. M. S. Magpie, N. 5° 48′, E. 118° 41′	29.87	758.7	77.3	25.2	88	w.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	raining.
H. M. S. Mutine, N. 10° 00′, W. 102° 30	29.90	759.4	79	26.1	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	2	sw.	thund'r st'm
H. M. S. Zephyr, N. 42° 43′ E. 135° 10′	30.25	768.3	54	12.2	100	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.37	758.7	80.2	26.8	82	nne.	.....	.....	3	.....	8	.....	.....	4 h'r	4 h'r	.....	.....	overcast.
U. S. S. Essex, Roze Island, Corea	30.18	766.6	71.5	21.9	95	e.	.....	.....	2	.....	10	.....	ene.	0.76	19.3	.....	.....	cloudy.
U. S. S. Monocacy, Roze Island, Corea	30.15	765.8	74	23.3	95	n.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Palos, Hong Kong, China	30.16	766.1	75	23.9	77	w.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Pensacola, N. 19° 50′, E. 175° 37′*	29.87	758 7	80	26.7	82	ene.	.....	.....	2	.....	10	.....	se	.....	.....	.....	.....	cloudy.
U. S. S. Richmond, Yokohama, Japan	29.90	759.4	83	28.3	79	se.	.....	.....	1	.....	5	.....	se.	light	light	sm'h	.....	fair.
S. S. Coptic, N. 47° 00′, W. 174° 00′	30.15	765.8	72	22.2	95	ne.	.....	.....	2	.....	10	.....	e.	1.10	27.9	.....	.....	cloudy.
S. S. Oceanic, N. 38° 52′, W. 127° 08′	29.99	761.7	52.5	11.4	50	nnw.	.....	.....	4	.....	8	.....	nw.	4 h'r	4 h'r	r'gh	nw.	cloudy.
S. S. Oregon, N. 40° 22′, W. 124° 20′ †	30.08	764.0	64	17.8	100	n.	.....	.....	3–4	.....	7	.....	n	0	0	4	nw.	d. clouds.
S. S. Ancon, San Francisco, Cal†	29.92	760.0	54.5	12.5	90	nnw.	.....	.....	2	.....	.....	.....	.....	.....	.....	mod.	nw	hazy.
S. S. State of California, San Francisco, Cal †	29.88	758.9	57	13.9	94	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Queen of the Pacific, Tacoma, Wash Ter†	29.95	760.7	52	11.1	86	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Victoria, Columbia River, Oregon†	30.01	762.2	49	9.4	93	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Pekin, N. 48° 08′, W. 176° 27′†	29.82	757.4	58	14.4	87	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. City of Tokio, Hong Kong, China†	29.98	761.5	51	10.0	86	n.	.....	.....	2	.....	10	.....	n.	0	0	large	w.	misty.
S. S. City of Rio de Janeiro, N. 23° 32′, E. 118° 06′ †	29.92	760.0	80	26.7	87	ese.	.....	.....	3	.....	6	.....	sse.	4 h'r	4 h'r	.....	.....	fair.
S. S. Colima, N. 23° 40′, W. 111° 17′†	29.98	761.5	81	27.2	70	ne.	.....	.....	5	.....	5	.....	ne.	1.9	48.3	mod.	ne.	fair.
S. S. Grenada, Acajutla, C. A†	29.89	759.2	78	25.6	78	nw.	.....	.....	2	.....	2	.....	calm	0	0	mod.	nw.	clear.
S. S. San Juan, N. 11° 17′, W. 86° 08′	29.93	760.2	78	25.6	91	calm	.....	.....	0	.....	7	.....	se.	2 h'r	2 h'r	mod.	.....	cloudy.
S. S. Armenia, N. 14° 40′, W. 120° 00′*	.....	.....	80	26.7	.....	nw.	.....	.....	2	5cs	.....	.....	nw.	3 h'r	3 h'r	gr'd	ssw.	d. clouds.
S. St. David, N. 46° 16′, W. 157° 50′*†	29.75	755.6	80	26.7	87	ne.	.....	.....	3	.....	10	.....	ne.	.....	.....	mod.	var.	overcast.
	29.75	755.6	59	15.0	82	w.	.....	.....	5	.....	7	.....	wnw.	3 h'r	3 h'r	hv'y	wnw.	raining.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.93	760.2	81.3	27.4	89	calm	.....	.....	0	.....	7	.....	.....	.....	.....	sm'h	.....	showery
U. S. S. Hartford, S. 4° 26′, W 81° 38′*	29.90	759.4	68	20.0	84	ssw.	.....	.....	2	.....	10	.....	.....	0	0	sm'h	s.	cloudy.
U. S. S. Iroquois, Callao, Peru	30.06	763.5	60	15.6	88	sse.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, S. 18° 25′, W. 71° 41′*	30.01	762.2	61	16.1	77	e	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	se.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	59	15.0	88	se.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	cloudy
U. S. S. Wachusetts, Callao, Peru*†	30.22	767.6	59	15.0	94	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W *†	30.15	765.8	56	13.3	81	s.	.....	.....	2	.....	2 k	.....	s.	.....	.....	.....	.....	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
S. S. Zealandia, S 21° 11′, E. 174° 15′	30.08	764.0	74	23.3	90	e.	.....	.....	5	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.11	764.8	66	18.9	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	mod.	se.	dense fog.
S. David Crockett, S. 40° 19′, W. 110° 38′*	29.35	745.5	49	9.4	78	wsw.	.....	.....	7	.....	8	.....	wsw.	8 h'r	8 h'r	r'gh	wsw.	showery.
S. Sovereign of the Seas, S. 33° 37′, W. 86° 26′*†	30.22	767.6	60	15.6	82	n.	.....	.....	5	.....	5	.....	n.	0	0	sm'h	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 18° 10′, E. 49° 28′	30.10	764.5	.....	.....	.....	ene.	.....	.....	1	.....	5	ene.	.....	.....	.....	2	ene.	d. clouds
H. M. S. Euryalus, Zanzibar, Zanzibar	30.00	762.0	79	26.1	86	wnw.	.....	.....	1	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	80	26.7	87	ese.	.....	.....	3	.....	2	ese.	.....	.....	.....	2	sse.	blue sky.
H. M S. Woodlark, Bassorah, Turkey	29.81	757.2	98.5	36.9	50	wnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, Batavia, Java	29.96	761.0	81	27.2	96	n.	.....	.....	1	.....	8	.....	.....	0	0	sm'h	.....	cloudy.
S. S. Galatia, N. 9° 24′, E. 63° 51′†	29.87	758.7	82	27.8	78	sse.	.....	.....	2	.....	6	.....	sse.	2 h'r	2 h'r	mod.	sw.	fine.
S. S. Benledi, N. 6° 15′, E. 78° 15′*	29.88	758.9	83	28.3	79	w.	.....	.....	4	.....	6	.....	wnw.	0	0	cross	var.	fine.
Bk. Pilgrim, S. 29° 30′, E. 39° 50′*†	30.30	769.6	.....	.....	.....	ssw.	.....	.....	5	.....	2	.....	sw.	0	0	long	sw.	fine.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 16, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.4	74.1	23.4	77	e.			1		1			inap.	inap.	very fair	Roziere.
Algiers			30.03	762.7	70.9	21.6	80	w.			2		10			0	0	covered	Thève.
La Calle			30.01	762.3	75.9	24.4	82	ene.			4		2			0	0	fair	Fonfrède.
Tunis			30.09	764.3	80.6	27.0	59	ne.			3		0			0	0	clear	Delord.
Saida			30.16	766.1															Pérès.
Tebessa			30.11	764.8	79.5	26.4	52	se.			1		3			0	0	pretty fair	St. Martin.
Geriville					75.6	24.2	15	nw.			4		4			0	c	cloudy	Forfert.
Laghouat			30.07	763.8	82.0	27.8	41	s.			1		4			0	0	cloudy	Abraham.
Biskra			30.05	763.2	90.0	32.2	27	sw.			1		1			0	0	very fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.24	768.1	54.0	12.2	69	n.	9	4.0		1 cs				0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.18	766.6	30.27	768.8	49.3	9.6	95	ssw.	2	0.9			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.62	752.3	30.16	766.1	62.2	16.8	84	s			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.5	30.18	766.6	66.6	19.2	51	ese.	12.5	5.6			6			0	0		Dr. Wierzbiski
Eperies	29.25	743.0	30.11	764.8	69.1	20.6	70	calm			0		10 s			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.82	732.0	30.22	767.5	69.4	20.8	41	ese.			2		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.06	763.4	66.9	19.4	74	ne.			1		1			0	0	clear	The Staff.
Lemberg	29.32	744.6	30.29	769.3	66.6	19.2	38	se.			5		0			0	0		Dr. T. Stanecki.
Pola	30.02	762.5	30.13	765.3	72.5	22.5	72	nw.			4		3			0	0		I. R. Hydrographic Office.
Szathmar	29.75	755.6	30.20	767.1	72.3	22.4	95	s.			5		4			0	0		Joseph Midlinszky, S. J
Szegedin	29.91	759.8	30.19	766.8	62.8	17.1	73	se.			2		8			0	0		Karl Stu..cel.
Trieste	30.03	762.8	30.13	765.3	75.2	24.0	71	sw.			1		4			0	0		Royal Academy.
Vienna	29.49	749.1	30.21	767.2	60.4	15.8	82	se.			2		10			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	57.5	14.2	92	ese.	3	1.3			9			0.c10	0.3	overcast	W. Boswell.
Armagh, Observatory	29.91	759.7	30.14	765.5	56.0	13.3	97	ne.	3	1.3									S. Call.
Bidston, Liverpool Obs'y			30.15	765.8	63.1	17.3	73	w.	5	2.2			2					blue sky	John Hartnup.
Bolton, Sharples	29.62	752.3	30.15	765.8	61.5	16.4	83	sw.					6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.02	0.5		McLandsborough & Preston.
Bridgetown, Barbadoes	29.94	760.5	29.97	761.2	86.0	30.0	68	e.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	30.05	763.3	30.16	766.1	69.0	20.6	77	w.			1		0					blue sky	John McLaren.
Chatham, School M. E.	29.97	761.2	30.14	765.5	66.2	19.0	79	calm			0		0					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.95	760.7	30.18	766.6	60.8	16.0	73	ssw.			1		6					d. clouds	The Staff.
Fort Napier, Natal	27.78	705.6	29.99	761.7	75.5	24.2	28	e.			1		5					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	88.0	31.1	76	s.			3		4					drizzling	J. W. Smith.
Galway, Queen's College	30.04	763.0	30.07	763.8	60	15.6	88	nnw.			1		2			0.01	0.3	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.10	764.5	73.2	22.9	94	nw.			3		3					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.82	757.4	30.02	762.5	61 8	16.6	80	wnw.			3		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.99	761.7	30.15	765.8	69.1	20.6	67	sw.			1		0					misty	The Staff.
Guernsey	29.84	757.9	30.14	765.5	64.0	17.8	86	ene.			1		10					overcast	A. Collenette, F. M. S
Kew, Observatory	30.14	765 5	30.17	766.3	63.9	17.7	78	sw.	4	1.8			2					hazy	The Staff.
Leicester, Museum	29.93	760.2	30.18	766.6	65.2	18.4	68	sw.			1							overcast	J. C. Smith.
Malta, Mediterranean	30.02	762.5	30.09	764.3	77.c	25.0	82	ne.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.94	760.5	29.98	761.5	82.0	27.8	75	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	57.0	13.9	46	calm			0		10					misty	The Staff.
Plymouth	30.08	764.0	30.15	765.8	63.2	17.3	79	calm			0		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys	29.98	761.5	30.08	764.0	58.2	14.6	91						10					misty	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.03	762.7	30.10	764.5	76.2	24.6	51	ne.			2		9					misty	W. H. Lyne.
Sheffield	29.86	758.4	30.13	765.3	68.8	20.4	63	se.			1		4			c	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.09	764.3	30.12	765.0	65.7	18.7	75	w.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.17	766.3	58.1	14.5	94	wsw.	4	1.8			10					misty	W. C. Carlisle.
Strathfield Turgiss					68.3	20.2	72				0		3					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.13	765.3	30.22	767.6	68	20.0	65	sw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.11	764.8	62.6	17.0	78	sse.	17	7.6			6					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.72	754.9	30.11	764.8	78.1	25.6	55	e.	13.7	6.1		1 c		w.		0.040	1.0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.99	761.7	30.03	762.7	57	13.9	94	s.	3	1.3		0	5 s			0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.97	761.2	30.01	762.2	59	15.0	85	calm	0	0		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.96	761.0	30.02	762.5	55	12.8	96	w.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.80	756.9	29.99	761.7	57.0	13.9	95	nw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.94	760.5	29.99	761.7	59.0	15.0		nw.			2					0	0	gloomy	H A. Johnson.
Edmonton, N. W. T	27.61	701.3			37	2.8	15	sw.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.97	761.2	29.99	761.7	54	12.2	93	w.	9	4.0		2 c;s	hz.	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.13	765.3	37	2.8	92	w.	8	3.6		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.00	762.0	30.07	763.8	56.0	13.3	95	calm	0	0			fg.			0	0	dense fog	Prof. Thos. Harrison
Grand Manan, N. B	30.05	763.3	30.10	764.5	56	13.3	90	calm	0	0		5 k	fg			0	0	hazy	J. Chipman Seeley
Granton, Ontario	28.87	733 3	29.95	760.7	60.0	15.6	82	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.96	761.0	30.09	764.3	54	12.2	90	calm	0	0		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.56	750.8	29.95	760.7	60.2	15.7	98	ne.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.69	754.1	30.02	762.5	61	16.1	93	se.	5	2.2		10 cs	0			0	0	fair	A. P. Knight, M. A
Little Glace Bay, N. S	29.90	759.4	29.94	760.5	54.0	12.2	55	sw			2	2 c	0	sw.		0	0	blue sky	C. H. Rigby.
London, Ontario	29.05	737.9	29.94	760.5	54.7	12.6	96	calm	0	0			10 n			0.29	7.4	overcast	E. B. Reed.
Medicine Hat	27.53	699.2	29.81	757.2				calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.90	759.4	30.10	764.5	62	16.7	87	s.	8	3.6		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.77	756.1	30.01	762.2	55.7	13.2	96	ssw.				8 ck	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.21	741.9	29.88	758.9	60	15.6	93	se.	7	3.1		5 k	5 ks	sw.	sw.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.19	741.4	29.91	759.7	62.7	17.1	88	sw.			1	9 ck	0			0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.28	743.7	29.95	760.7	60	15.6	94	calm	0	0			10 n			0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.31	744.5	29.94	760.5	61	16.1	100	e.	8	3.6			10 n		sw.	0	0	cloudy	M. Payne.
Que Appelle, N. W. T	27.85	707.4	30.19	766.8	34	1.1	79	sw.	10	4.5		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.69	754.1	30.04	763.0	59	15.0	96	s	4	1.8			fg			0	0	dense fog	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.93	760.2	56	13.3	93	se.	2	0.9		7 c	0	w.		0	0	fair	W. H. McIntyre.
St. Andrews, N. B	30.01	762.2	30.06	763.5	53	11.7	93	calm	0	0			10 n			0	0	cloudy	
St. John, N. B	29.93	760.2	30.07	763.8	51.8	11.0	100	se.	1	0.4			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F	29.77?	756.1?	30.02?	762.5?	57	13.9	87	w.				0	0			0	0	clear	The Commandant.
Saugeen, Ontario*	29.15	740.4	29.84	757.9	63	17.2	65	s.	11	4.9			10 ks			0	0	cloudy	
Stratford, Ontario	28.67	728.2	29.91	759.7	58.9	14.9	93	s.	2.0	0.9			10 s			0	0	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F			29.96	761.0	56.5	13.6		nw.			2					0.24	6.1		The Commandant.
S. W. Point, Anticosti	29.92	760.0	29.96	761.0	52	11.1	93	n.	2	0.9		0	0			0	0	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper 0-10	Clouds. Amount and kind. Lower 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	29.98	761.5	30.04	763.0	53	11.7	96	sw.	5	2.2		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.58	751.3	29.95	760.7	58	14.4	90	ne.	5	2.2		5 cs	5 s	w.	w.	0	0	fair	Magnetic Observatory.
Woodstock, Ontario	28.93	734.8	29.98	761.5	55.4	13.0	95	e.	1	0.4		10 cs	0			0.35	8.9	hazy	Prof. Wolverton, M.A.
Yarmouth, N.S.*	30.02	762.5	30.09	764.3	53	11.7	96	calm	0	0		fg	fg			0	0	foggy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House.	30.04	763.0	30.07	763.8	65.0	18.3	86	wsw.	6.5	2.9		0	0			0	0	clear	I. Garfelt.
Springbok Fontein	27.86	707.6			80	26.7	31									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	29.88	758.9	29.96	760.9	52.7	11.5	86	ne.			1	0	4 k					fair	Samuel Redolez.
Iquique	29.97	761.3	30.00	762.0	59.0	15.0	80	s.			3							cloudy	Rafael Moreno.
Niebla	29.37	746.1	29.48	748.8	48.9	9.4	86	wnw.			5		7		wnw.	1.016	25.8	drizzling	Federico Köhling.
Punta Caldera	29.84	758.0	29.94	760.5	54.5	12.5	82	se.			2	6 c		se.				fair	Manuel Tobar.
Punta Corona	29.90	759.4	30.09	764.2				w.			0	7 c				0	0	fair	Ignacio Ayala.
Valparaiso	29.91	759.8	30.06	763.4	54.9	12.7	88	n.			0							cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.23	640.8																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.93	760.2	29.95	760.8	76.1	24.5	88	se.	10.7	4.8			10			0	0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.17	766.4	30.22	767.6	64.9	18.3	58	ese.	18	8			3						Oversergent Fischer.
Fanoe	30.12	765.0	30.14	765.5	67.6	19.8	80	wsw.	4	2			5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.22	767.5	30.26	768.6	47.1	8.4	82	calm	0	0			0						A. O. Thorlacius.
Thorshavn	30.10	764.4	30.12	765.0	54.9	12.7	94	calm	0	0			8						Overloerer Bergh.
Vestervig	30.05	763.2	30.14	765.5	66.9	19.4	74	ese.	9	4			2						Loerer Oesterbol.
Egyptian.																			
Cairo	29.76	755.8			89.1	31.7		ne.	6.3	2.8			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.58	751.4	30.21	767.2	66.9	19.4	81	calm			0		1		nw.	0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.74	755.4	30.25	768.4	65.1	18.4	83	ne.			1		8		sw.	0	0		M. Nicot, Director.
Avignon, Normal School	30.10	764.5	30.18	766.5	75.2	24	67	w.			1		0			0.031	0.8	clear	M. Giraud, Director.
Bar-sur-Seine	29.60	751.8	30.14	765.5	70.0	21.1	61	sse.			1		5 kn		n.	0	0	cloudy	M. Saillard, Director
Beauvais, Normal School	29.89	759.1	30.15	765.7	68.0	20	69	e.			1		5		e.	0	0	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.22	742.2	30.11	764.8	70.5	21.4	65	n.			1					0.138	3.5		M. Gobin, Director.
Bordeaux, Observatory	29.88	759.0	30.13	765.4	73.0	22.8	54	sw.			1		8		w.	0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.11	764.8	75.2	24	53	e.			1				e.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.92	760.0	30.17	766.2	70.9	21.6	77	e.			1		1		e.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.03	762.8	30.11	764.9	73.9	23.3	79	s.			1		2		s.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.78	756.4	30.09	764.3	67.6	19.8	64	calm			0		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.65	753.1	30.16	766.0	63.7	17.6	84	s.			1		10		w.	0.04	1.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.80	731.4	30.11	764.8	69.1	20.6	53	w.			1		8			0.012	0.3		M. Alluard, Director.
Cluny, Normal School	29.31	744.5	30.15	765.9	71.8	22.1	58	ne.			1				w.	0.024	0.6		M. de Villemontée, Dir.
Commercy, Normal School	29.32	744.6	30.16	766.1	63.3	17.4	80	e.			1	c	10 kn	e.	e.	0.244	6.2	raining	Dr. Coulet, Director.
Gap, Normal School	27.61	701.3	30.08	764.0	68.0	20	61	s.			2		3 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.05	737.7	30.13	765.3	74.8	23.8	50	sw.			2		5		sw.	0.075	1.9		M. Kinn, Director.
Grenoble, Normal School	29.35	745.6	30.10	764.6	73.4	23	65	ene.			1		k		nw.	1.97	50.		M. Ablard, Directoor.
Guéret, Normal School	28.59	725.9	30.12	765.0	68.0	20	67	w.			1		2 cn		e.	0.04	1.	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.84	757.8	30.11	764.8	64.4	18	77	nw.			1		10		nw.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.57	751.0	30.20	767.0	68.2	20.1	92	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.3	30.15	765.9	72.0	22.2	77	calm			0		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.10	739.1	30.13	765.3	70.2	21.2	64	ssw.			1		10		wnw.	0.047	1.2	stormy	M. André, Director
Mans, Normal School	29.82	757.5	30.12	765.1	69.1	20.6		se.			1		2 k		s.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.87	758.8	30.14	765.5	73.8	23.2	40	w.			2-4		7		w.	0	0		M. Stephan, Director.
Montlouis	24.99	634.7	29.83	757.7	54.5	12.5	60	w.	5.6	2.5			7	w.		0.102	2.6		M. Cave for Dr. Fines.
Montpellier, Normal School	30.00	762.0	30.11	764.7	71.6	22	87	s.			4		1	se		0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.98	761.6	30.15	765.7	77.5	25.3	54	ssw.			0-1		0			0	0	misty	M. Larocque, Director.
Perpignan, Observatory	30.05	763.2	30.16	766.0	71.4	21.9	70	se.	9.4	4.2			10		ne.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.8			35.6	2.0		w.			1		5		w.	0.276	7.0	snowy	M. Vaussenat, Director.
Privas, Normal School	29.04	737.6	30.09	764.2	66.2	19	86	sse.			3		5 n	n.	s.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.34	643.6			50.9	10.5	87	w.			1		8 k			0.539	13.7		M. Alluard.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	75.2	24.0	67	s.			1		10		sw.	0	0	covered	Lt. E. Fecante, Director.
Roche-sur-Yon, N. School	29.89	759.2	30.10	764.4	73.9	23.3	95	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.03	712.0	30.15	765.9	59.5	15.3	76	se.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.11	764.8	30.16	766.0	67.3	19.6	79	n.			2		5	sw.		0	0	cloudy	M. Moullot, Dir.
Saint Maur, Observatory	29.98	761.6	30.15	765.8	72.9	22.7	53	nne.			1					0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	74.8	23.8	61	ese.			1		1	sw.		0	0	clear	M. Bailland, Director.
Tours	29.95	760.7	30.13	765.2	75.2	24.0	53	s.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.66	753.3	30.15	765.8	72.7	22.6	51	n.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.04	763.0	30.19	766.8	71.1	21.7	67	sw.	2.0	0.9			8 k		e.	0.031	0.8		M. Cartier, Director.
German.																			
Anshach	28.69	728.6	30.09	764.3	70.0	21.1	60	calm			0		5			0	0		Prof. Jnedt.
Bamberg	29.27	743.5	30.12	765.0	71.1	21.7	57	s.			1		3 k			0	0		Prof. Dr. Hoh.
Berlin	30.00	761.9	30.13	765.4	74.5	23.6	48	se.			3		6			0	0		Dr. Lensch.
Breslau	29.68	753.8	30.21	767.4	71.6	22.0	51	se.			3		3	sse.		0	0		Royal University Obs'y.
Carlsruhe	29.70	754.4	30.15	765.9	66.9	19.4	71	sw.			2		10	sw.		0.020	0.5		Albert Senz.
Cassel	29.38	746.2	30.09	764.3	73.8	23.2	51	n.			1		2	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.73	755.2	30.08	764.1	75.2	24.0	48	n.			1		2			0	0		Physical Society.
Friedrichshafen	29.75	730.3	30.14	765.6	65.1	18.4	85	sw.			1		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	762.9	30.13	765.2	70.9	21.6	72	calm			0		9			0	0	dense haze	E. Preller.
Kiel	30.11	764.9	30.13	765.3	67.1	19.5	67	calm			0		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.70	754.3	30.11	764.7	72.3	22.4	58	sse.			2		7	se.		0	0		H. Leppig, Asst.
Magdeburg	29.92	760.0	30.10	764.6	74.5	23.6	54	se.			2		3	s.		0	0		Weather Observatory.
Memel	30.41	772.5	30.46	773.7	68.5	20.3	45	sse.			4		0					clear	Issermann.
Munich	28.30	718.8	30.17	766.3	66.0	18.9	70	w.			2		8	nw.		0	0		Central Station.
Neufahrwasser	30.28	769.2	30.30	769.6	70.5	21.4	30	se.			3		1			0	0		A. Lothes.
Neustadt, Palatinate	29.58	751.3	30.11	764.7	63.3	17.4	84	wnw.			5		10			0.331	8.4	raining	Dicknether.
Stuttgart	29.19	741.3	30.07	763.7	61.7	16.5	87	nw.			1		10			0.169	4.3	raining	Prof. Dr. Schoder.
Wustrow	30.14	765.5	30.16	766.1	68.9	20.5	62	ene.			3		5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.73	755.2	30.10	764.6	81.3	27.4		ne.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.70	754.4	29.75	755.7	83.1	28.4	74	sw.	31.0	13.8			3	sw.		0	0	d. clouds	
Deesa	29.29	743.9	29.76	755.8	85.3	29.6	58	sw.	8.0	3.6			7	sw.		0.05	1.3	d. clouds	
Bombay	29.84	757.8	29.87	758.8	80.7	27.1	76	wsw.	6.0	2.7			2	w.		0.01	0.3	d. clouds	
Poona, Yarrowda	28.01	711.5	29.87	758.7	77.5	25.3	68	nw.	17.0	7.6			7			0	0	d. clouds	
Trichinopoly	29.55	750.5	29.82	757.5	92.1	33.4	48	wnw.	0.3	0.1			5			2.50	63.5	d. clouds	
Bellary	28.32	719.3	29.75	755.7	92.0	33.3	32	w.	6.0	2.7			3			0	0	d. clouds	
Belgaum	27.32	693.9	29.86	758.6	74.4	23.6	79	wsw.	7.0	3.1			4	e.	w.	0.01	0.3	d. clouds	
Lahore	28.92	734.6	29.64	753.0	91.1	32.8	63	calm	0	0			0			0	0	blue sky	
Roorkee	28.74	730.0	29.62	752.2	89.2	31.8	66	nw.	1.0	0.4			3	w.		0	0		
Agra	29.12	739.7	29.67	753.7	92.2	33.4	52	nw.	4.0	1.8			2		nw.	0	0	d. clouds	
Nagpur	28.72	729.4	29.75	755.7	81.2	27.3	72	nw.	9.0	4.0			0		w.	0.02	0.5	gloomy	
Jubbulpore	28.41	721.5	29.70	755.8	80.0	26.7	81	nw.	6.0	2.7			8		nw.	0	0	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.29	743.9	29.66	753.4	80.2	26.8	83	wnw.	1.0	0.4			10			0.51	13.0		
Allahabad	29.36	745.9	29.68	753.7	82.8	28.2	83	nw.	2.0	0.9			7		nw.	0	0	d. clouds	
Patna	29.49	749.0	29.67	753.7	83.6	28.7	90	ene.	1.7	0.8			10	ene.	ene.	0.50	12.7	overcast	
Hazaribagh	27.69	703.2	29.69	754.1	77.0	25.0	90	calm	2.8	1.2			10			1.21	30.7	thud'rstorm	
Cuttack	29.60	752.0	29.69	754.0	83.8	28.8	82	calm	0	0			4			0	0	d. clouds	
Calcutta, Alipore	29.66	753.4	29.68	753.9	83.5	28.6	87	s.	3.0	1.3			9		s.	0	0	d. clouds	
Dhubri	29.58	751.3	29.70	754.3	82.0	27.8	89	e.	3.1	1.4			2			0.01	0.3	d. clouds	
Chittagong	29.68	753.9	29.77	756.2	81.0	27.2	89	sw.	3.7	1.6			10					drizzling	
Sibsagar	29.38	746.4	29.72	754.8	84.6	29.2	81	ne.	2.0	0.9			8	sw.	sw.	0.10	2.5	d. clouds	
Jeypore	28.30	718.8	29.70	754.5	92.1	33.4	43	nw.	7.5	3.4			6		nw.	0	0	d. clouds	
Zanzibar	30.03	762.7			83.8	28.8	44	se.	2.9	1.3			0			0	0	blue sky	
ITALIAN.																			
Udine	29.73	755.2	30.13	765.3	74.3	23.5	55	calm	0	0			7			0	0		Prof. Giovanni Clodig.
Milan	29.63	752.7	30.14	765.6	70.3	21.3	67	wsw.	1.3	0.6			7	sw.		0.024	0.6		Prof. G. V. Schiapparelli
Padua	30.02	762.4	30.12	765.1	69.6	20.9	70	sse.	3.1	1.4			6	w.		0.201	5.1		Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.4	30.12	765.0	67.6	19.8	68	nw.	1.8	0.8			7	se.		0	0		Prof. F. F. Denza.
Genoa	29.95	760.7	30.13	765.4	72.1	22.3	53	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.21	716.5	30.09	764.3	63.9	17.7	72	ne.			2		1			0.020	0.5		Prof. D. C. Bruno.
Pesaro	30.10	764.6	30.15	765.8	68.7	20.4	81	ne.	8.1	3.6			8	wsw.		0.039	1.0		Prof. Luigi Guidi.
Florence	29.86	758.5	30.11	764.9	75.2	24.0	53	nw.			2		3			0	0		Prof. Costantino Pittei.
Leghorn	29.95	760.8	30.04	762.9	74.1	23.4	80	nne.	0	0			3			0	0		Prof. P. Monte.
Rome	29.95	760.8	30.12	765.1	77.4	25.2	56	wsw.	1.8	0.8			3			0	0		Prof. P. Tacchini.
Lecce	29.87	758.6	30.12	765.0	76.3	24.6	60	ene.	4.9	2.2			1			0	0		Prof. C. de Giorgi.
Cosenza	29.24	742.6	30.10	764.6	79.2	26.2	63	wnw.	3.1	1.4			1	nw.		0	0		Prof. D. Conti.
Cagliari	29.91	759.7	30.10	764.5	73.6	23.1	62	se.			2		1			0	0		Prof. A. Pacinotti.
Palermo	29.91	759.6	30.15	765.8	70.6	24.8	69	ne.	5.6	2.5			0			0	0		Prof. G. Cacciatore.
Syracuse	30.04	763.1	30.09	764.2	75.7	24.3	67	s.	3.8	1.7			8	ne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.62	752.4	30.13	765.4	73.8	23.2	75	sw.	0.7	0.3			5	n:sw		0.748	19.0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.03	762.7	30.07	763.7	64.5	18.1	97	calm			0	0	8 k		w.	0	0	cloudy	H. Hattori.
Awomori	30.01	762.2	30.04	763.0	62.0	16.7	92	s.	0.5	0.2		0	0			0.032	0.8	clear	K. Ogawa.
Hamamatsu	29.97	761.2	30.07	763.7	71.6	21.7	87	n.			2	1 cs	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.03	762.6	30.04	762.9	75.4	24.1	81	calm			0	0	0			0	0	clear	G. Miyanoaaza.
Kanazawa	29.97	761.2	30.07	763.7	70.0	21.1	93	ene.	0.5	0.2		0	0			0	0	clear	S. Endo.
Kioto	29.88	759.0	30.06	763.4	71.8	22.1	79	nnw.	1.8	0.8		0	0			0	0	clear	M. Tojima.
Kochi	30.05	763.2	30.07	763.7	76.6	24.8	81	w.	2.7	1.2		1 ck	8 s	nw.	nw.	0	0	overcast	K. Kusunose.
Miasaka	30.03	762.6	30.05	763.3	72.1	22.3	93	ene.			1	0	7 ks		e.	0	0	fair	K. Masusaki.
Miyako	29.98	761.5	30.09	764.3	64.6	18.1	93	n.	0.2	0.1			10 s			0.012	0.3	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	74.7	23.7	84	calm	0	0		2 c	0	s.		0	0	clear	S. Takehayasu.
Niigata	30.04	763.0	30.07	763.8	70.4	21.3	78	ne.	2.6	1.2		0	0			0	0	clear	Satoo & Tomikawa.
Nobiru	30.06	763.5	30.07	763.9	69.7	20.9	90	e.	8.2	3.7			10n;ks					light rain	Yoslino & Midzushina.
Numazu	30.03	762.7	30.07	763.7	70.0	21.4	87	e.			1	5c;cs	0			0	0	fair	K. Kaneua.
Osaka	30.03	762.8	30.05	763.2	72.4	22.4	82	ne.	4.2	1.9		0	0			0	0	clear	H. Omura.
Sakai	30.05	763.4	30.06	763.6	74.5	23.6	80	ne.			4	0	7 ks		e.	0	0	fair	Yamawchi&Sakamoto.
Shimonoseki	29.90	759.4	30.04	763.1	72.9	22.7	86	calm			0	0	0			0	0	clear	S. Sakai.o.
Tokei Obs'y, Yeddo	30.01	762.2	30.08	764.1	70.7	21.5	93	e.	3.3	1.4		1cs;ck	0	sw.		0	0	clear	The Staff.
Wakayama	29.97	761.3	30.02	762.6	77.1	25.1	74	calm	0	0		3 ck	3 ck	ne.		0	0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.16	766.1	69.9	21.1	60	se.	10.5	4.7			9 ks;kn		s.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.33	618.0	29.95	760.7	61.7	16.5	85	nnw.	0.9	0.4		6 ck	3 ns	e.	e.	0.252	6.4	cloudy	Prof. M. Leal.
Mazatlan	29.64	752.7	29.89	759.2	78.5	25.8	89	ene.	0.9	0.4		10 cn	0	se.		0.630	16.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata					75	23.9	97	se.			1		10 n			0.24	6.1	raining	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.17	766.4	30.17	766.4	68.7	20.4		w.			3					0.012	0.3		
Groningen	30.09	764.3	30.15	765.7	64.8	18.2		nnw.			1					0	0		
Helder	30.15	765.9	30.15	765.9	61.5	16.4		w.			1					0	0		
Hellevoetsluis	30.17	766.3	30.17	766.3	70.0	21.1	70	wnw.			1					0	0		
Utrecht	30.13	765.2	30.17	766.4	69.3	20.7	68	ne.			2		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.7			80.8	27.1	75	n.	0.5	0.2			10			0.335	8.5		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.10	764.6	30.17	766.2	64.4	18.0	62	nw.	4.9	2.2			6			0	0		
Bronc	30.24	768.2	30.28	769.2	65.8	18.8	47	sse.			2		8			0	0		
Christiania	30.15	765.8	30.30	769.5	67.6	19.8	53	se.	7	3			7			0	0		
Gjesvær	30.35	771.0	30.38	771.6	43.9	6.6		calm			0		10						
Lodingen	30.31	769.9	30.36	771.1	55.0	13.1	82	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					71.6	22.0	86	wnw.	9.4	4.2			1			0.236	6.0		Dr. J. A. Sampaio.
Ompo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.10	764.5	30.19	766.7	75.2	24.0	67	sw.	3.8	1.7			3	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.1	30.18	766.5	68.5	20.3	63	sse.	5.6	2.5			8	wnw.		0	0		The Staff.
Ponta Delgada, Azores	29.84	757.9	29.91	759.7	70.2	21.2	83	sw.	8.7	3.9			10			0.110	2.8		
Saint Paul de Loando	29.81	757.1	30.01	762.2	72.5	22.5	87	w.			2		2	s.		0	0		
San Salvador, Congo	28.14	714.7	29.97	761.1	81.1	27.3	52	w.			2		10						
Serra da Estrella	25.44	646.2	30.12	765.0	56.3	13.5	63	wnw.	4.3	1.9			3			0.409	10.4		
RUSSIAN.																			
Akmolinski	28.90	734.1	29.98	761.5	49.5	9.7	46	wnw.	7	3		6 ck	0			0.004	0.1		Major K. Lasarew.
Archangel	30.28	769.1	30.30	769.6	55.2	12.9	70	wnw.	18	8		0	8 ks			0	0		Capt. Sseliwerstow.
Ashurada	30.26	768.5	30.16	766.1	70.8	24.9	46	nnw.	11	5		0	2 k			0	0		
Astrakhan	30.38	771.6	30.31	769.8	72.1	22.3	41	sse.	2	1		0	6 ks			0	0		Capt. Wisganow.
Baku	30.34	770.6	30.29	769.4	64.0	17.8	87	nne.	9	4			10 kn			0.244	6.2		
Barnaul	29.45	747.9	29.94	760.5	51.4	10.8	63	ne.	4	2			9			0.335	8.5		Meteorological Obs'y
Bielosersk	29.97	761.1	30.43	772.8	63.0	17.2	71	nw.	4	2		0	8 ks			0	0		
Dorpat	30.27	768.9	30.51	775.0	69.4	20.8	56	ssw.	2	1		0	2 k			0	0		Observatory.
Ekaterinburg	29.08	738.7	30.04	763.0	52.9	11.6	39	nw.	13	6		9 ck	0			0.047	1.2		Meteorological Obs'y.
Elissawetgrad	29.95	760.6	30.38	771.7	77.9	25.5	24	ese.	9	4		0	0			0	0		
Irkutsk	28.45	722.7	30.11	764.8	45.5	7.5	91	calm			0		9			0.228	5.8		
Kasalinsk					63.3	17.4	45	calm	0	0		0	0						
Kasan	30.02	762.4	30.28	769.1	65.8	18.8	50	nw.	9	4		0	8 k;k			0	0		Observatory.
Kem	30.28	769.2	30.34	770.5	61.7	16.5	56	wnw.	22	10			10 ks			0	0		
Kertch	30.16	766.1	30.19	766.7	69.8	21.0	65	ne.	11	5		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.77	756.2	30.39	771.9	71.6	22.0	27	ne.	7	3		0	0			0	0		Observatory.
Koslov	29.88	759.0	30.38	771.6	69.8	21.0	45	nne.	7	3		0	5 k			0	0		
Liban	30.41	772.3	30.43	772.9	70.0	21.1	41	se.			4		0			0	0		E. Quaas.
Lugan	30.13	765.4	30.34	770.5	75.0	23.9	33	ene.	18	8			9			0	0		Meteorological Obs'y.
Moscow	30.00	762.1	30.47	773.9	68.9	20.5	43	e.	2	1		0	0			0	0		Meteorological Obs'y
Nikolniev	30.28	769.1	30.35	770.9	76.0	24.8	34	ne.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					53.6	12.0	86	ese.	16	7		0	8 n					light clouds	Iwanow.
Pekin, China	29.86	758.4	30.00	762.0	70.2	21.2	65	nw.	3.4	1.5		1 cs	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.94	760.5	30.28	769.2	71.6	22.0	38	calm	0	0		0	3 k			0	0		
Petrozavodsk	30.19	766.8	30.38	771.7	64.9	18.3	50	nw.	11	5		0	8 ks			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.94	760.4	30.43	772.8	71.8	22.1	37	se.	13	6	.....	0	0	.....	.....	0	0	.....	
Poti	29.89	759.2	29.92	760.0	78.3	25.7	80	sw.	7	3	.....	0	5 k	.....	.....	0.059	1.5	.....	
St. Petersburg	30.50	774.7	30.52	775.3	65.5	18.6	50	wnw.	7	3	.....	0	2 k	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.84	707.1	30.28	769.1	64.6	18.1	41	nw.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.22	742.1	29.87	758.6	56.3	13.5	71	calm	0	0	.....	.....	9	.....	.....	0.217	5.5	.....	Major Lasarew
Sevastopol	29.95	760.7	30.15	765.9	75.9	24.4	29	wsw.	27	12	.....	0	0	.....	.....	0	0	.....	
Staroi Bykhov	29.93	760.3	30.47	774.0	74.3	23.5	42	ne.	9	4	.....	0	2 k	.....	.....	0	0	.....	
Tashkend Laboratory	28.62	726.9	30.26	768.7	67.1	19.5	46	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.86	733.0	30.27	768.8	64.8	18.2	67	se.	7	3	.....	.....	10 n	.....	.....	0.028	0.7	.....	Physical Observatory.
Vernoe	27.73	704.3	30.28	769.0	47.1	8.4	81	se.	22	10	.....	.....	10 n	.....	.....	0	0	.....	
Viatka	29.60	751.7	30.22	767.6	58.3	14.6	74	w.	4	2	.....	.....	7	.....	.....	0	0	.....	
Warsaw	29.89	759.3	30.31	769.9	67.8	19.9	38	ese.	16	7	.....	0	1 s	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.90	759.4	30.20	767.0	33.3	0.7	82	w.	2	1	.....	.....	4	.....	.....	blank	blank	.....	M. O. Marks.
Scottish.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.03	762.8	30.13	765.4	73.4	23.0	80	ne.	15.4	6.9	.....	.....	9	.....	.....	0.075	1.9	misty.	Antonio Molins.
Bilbao, Met. Obs'y	30.10	764.5	30.16	766.0	73.0	22.8	62	nw.	1.3	0.6	.....	2	3	s.	.....	0.220	5.6	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.4	30.12	765.0	67.5	19.7	63	sw.	2.5	1.1	.....	.....	7	.....	.....	0.256	6.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.91	709.0	30.08	764.0	71.4	21.9	49	sw	6.0	2.7	.....	0	5	.....	.....	0.102	2.6	cloudy	The Staff.
Murcia, Met. Obs'y	29.94	760.4	30.08	763.9	75.6	24.2	68	s.	2.0	0.9	.....	3	5	ne.	.....	inap.	inap.	misty	Olayo Diaz, Director.
Oviedo	29.38	746.2	30.14	765.5	60.8	16.0	90	s.	6.9	3.1	.....	.....	8 n	n.	n.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.21	742.0	30.09	764.2	68.2	20.1	71	sw.	1.3	0.6	.....	.....	9	.....	.....	0.122	3.1	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.93	760.2	30.00	761.9	75.4	24.1	89	e.	1.1	0.5	.....	2 cs	k	nnw.	.....	0.02	0.6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.7	79.0	26.1	89	se.	4.4	2.0	.....	5 cs	4 ks	.....	.....	1.063	27.0	foggy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.4	30.15	765.9	75.4	24.1	65	w.	10.6	4.7	.....	3	5	w.	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.92	759.9	30.01	762.2	81.7	27.6	81	se.	7.6	3.4	.....	.....	10 kn	.....	se.	0	0	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.38	771.6	30.42	772.6	59.7	15.4	77	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.42	772.6	30.47	773.9	65.5	18.6	52	sw.	.....	.....	2	.....	1	.....	.....	0	0	.....	
Hernosand	30.39	771.9	30.44	773.2	66.9	19.4	60	s.	.....	.....	4	.....	1	.....	.....	0	0	.....	
Stockholm	30.25	768.3	30.43	772.8	66.9	19.4	53	e.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Wisby	30.34	770.7	30.40	772.2	69.8	21.0	43	s	.....	.....	4	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	30.32	770.0	30.40	772.2	67.1	19.5	70	ese.	2.7	1.2	.....	.....	1	.....	.....	0.008	0.2	.....	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.74	730.1	30.13	765.2	69.6	20.9	64	ssw.	.....	.....	2	.....	3	.....	.....	0.228	5.8	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.15	765.9	72.9	22.7	56	ene.	22	10.0	.....	.....	10	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.27?	768.9?	76.3	24.6	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.91	759.6	83.7	28.7	61	n	.....	.....	1	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	27.02	686.3	.....	.....	62	16.7	84	calm	.....	.....	0	.....	10 n	.....	e.	0.25	6.3	threatening	Fred L. Kingsbury.
United States.																			
Albany, New York	30.02	762.5	30.10	764.5	61.5	16.4	90	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. O. Barnes.
Alpena, Michigan	29.15	740.4	29.80	756.9	64	17.8	84	w.	12	5.4	.....	.....	10 s	.....	w.	0	0	threatening	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.93	760.2	45	7.2	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.21	691.1	30.06	763.5	40	4.4	73	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.11	764.8	69.0	20.6	90	e.	6	2.7	.....	7 k	0	se.	.....	inap.	inap.	fair	Edward A. Beals.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	64	17.8	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	71.0	21.7	94	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	D. J. Young.
Baltimore, Maryland	30.03	762.7	30.08	764.0	66	18.9	84	e.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	Geo. W. Fisher.
Barnegat City, New Jersey	30.06	763.5	30.08	764.0	67.0	19.4	97	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	G. A. Hill.
Behring Id., Behring Sea	29.94	760.5	29.96	761.0	46.7	8.2	93	s.	17	7.6	.....	3 ck	3 k	w.	s.	0	0	fair	Geo. Chernick.
Bennett, Fort, Dakota	28.69	728.7	30.28	769.1	37.0	2.8	72	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	30.10	764.5	48	8.9	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.42	721.9	30.22	767.6	37	2.8	82	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.04	763.0	30.07	763.8	61	16.1	96	ne.	11	4.9	.....	.....	10 s; fg	.....	.....	0.07	1.8	cloudy	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.92	760.0	58	14.4	55	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.94	760.5	30.09	764.3	61.0	16.1	93	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.99	761.7	78.0	25.6	97	se.	4	1.8	.....	2 c	5 ks	w.	se.	inap.	inap.	fair	E. C. Imlay.
Buffalo, New York	29.23	742.4	29.96	761.0	66.3	19.1	78	se.	4	1.8	.....	4 c	hz.	sw.	.....	0	0	fair	Wm. Finn.
Buford, Fort, Dakota	28.23	717.0	30.21	767.3	32.7	0.4	81	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Cairo, Illinois	29.61	752.1	30.01	762.2	71.7	22.1	94	s.	3	1.3	.....	0	9 s	.....	s.	0.02	0.5	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.81	757.2	30.01	762.2	54.8	12.7	94	nw.	2	0.9	.....	.....	10 s	.....	n.	0	0	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.08	764.0	30.10	764.5	69.0	20.6	100	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.05	763.3	30.08	764.0	66.0	18.9	100	n.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.0	52	11.1	86	nw.	.....	.....	2	8 k	0	nw.	.....	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	75.0	23.9	97	ne.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	G. W. Davis.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	72.0	22.2	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.10	764.5	70.0	21.1	84	se.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.11	764.8	65.5	18.6	93	se.	1	0.4	.....	6 k	fg.	s.	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.26	616.2	30.12	765.0	40.2	4.6	67	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.16	740.7	29.85	758.2	68.5	20.3	87	sw.	2	0.9	.....	.....	10 n	.....	w.	0.10	2.5	light rain	Wm. Norrington.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	72	22.2	97	sw.	3	1.3	.....	0	hz.	.....	.....	inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	29.99	761.7	67.0	19.4	73	se.	2	0.9	.....	2 c	0	sw.	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.21	741.9	29.93	760.2	64.8	18.2	74	se.	7	3.1	.....	10 cs	0	w.	.....	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenan.
Columbus, Ohio	29.15	740.4	29.99	761.7	63	17.2	84	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.11	714.0	30.01	762.2	67.4	19.7	78	w.	4	1.8	.....	0	3 s	.....	.....	0	0	clear	J. McGlone.
Custer, Fort, M. T	26.93	684.0	30.05	763.3	43	6.1	53	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.21	741.9	29.86	758.4	67	19.4	84	nw.	4	1.8	.....	2 ck	5 s	nw.	nw.	0.34	8.6	fair	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.92	760.0	61	16.1	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.23	717.0	29.98	761.5	54	12.2	45	n.	6	2.7	.....	9 k	0	.....	.....	0	0	cloudy	D. Moore.
Deadwood, Dakota	25.51	647.9	30.07	763.8	39	3.9	76	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.08	764.0	30.10	764.5	66	18.9	100	ne.	2	0.9	.....	.....	fg	.....	.....	0	0	dense fog	T. S. Townsend.
Denver, Colorado	24.98	634.5	30.10	764.5	49.0	9.4	50	calm	0	0	.....	2 c	0	w.	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.09	738.9	29.98	761.5	58	14.4	87	n.	10	4.5	.....	.....	10 s	.....	n.	0.66	16.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.92	760.0	67.0	19.4	78	se.	7	3.1	.....	4 cs	0	.....	.....	0	0	fair	E. R. Brace.
Dodge City, Kansas	27.54	699.5	30.09	764.3	57	13.9	86	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.16	740.7	29.86	758.4	65.6	18.7	87	nw.	6	2.7	.....	.....	10 s	.....	w.	0.56	14.2	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.03	762.7	49	9.4	86	calm	0	0	.....	0	0	.....	.....	0.45	11.4	clear	N. B. Conger.
Eastport, Maine	30.00	762.0	30.08	764.0	54.0	12.2	90	s.	1	0.4	.....	.....	fg.	.....	s.	0	0	dense fog	D. C. Murray.
Elliott, Fort, Texas	27.37	695.2	30.06	763.5	56	13.3	47	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.35	669.3	30.00	762.0	58.0	14.4	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.25	742.9	29.96	761.0	67	19.4	78	s.	12	5.4	.....	4 c	0	w.	.....	0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.19	741.4	29.85	758.2	58.5	14.7	93	n.	5	2.2	.....	.....	10 n	.....	n.	0.67	17.0	light rain	George Heathcote.
Galveston, Texas	29.96	761.0	30.00	762.0	81	27.2	82	sw.	3	1.3	.....	2 cs	6 ks	.....	sw.	inap.	inap.	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.18	741.2	29.84	757.9	66.0	18.9	87	s.	9	4.0	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.27	641.8	29.87	758.7	64.6	18.1	29	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	74.0	23.3	97	ne.	8	3.6	.....	hz.	3 k	.....	ne.	0.08	2.0	clear	R. M. Crawford.
Helena, Montana	25.85	656.6	30.02	762.5	53	11.7	50	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.84	732.5	30.22	767.6	37	2.8	78	nw.	7	3.1		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.13	739.0	29.91	759.7	71.3	21.8	68	s.	3	1.3		2 ck	8 s;ks	w.	sw.	0	0	threatening	C. F. R. Wappenhans.
Indianola, Texas	29.96	761.0	29.99	761.7	79.2	26.2	97	sw.	5	2.2		2 cs	4 ks	w.	s.	0.15	3.8	fair	I. A. Reed.
Jacksonville Florida	30.04	763 0	30.08	764.0	73.0	22.8	97	ne.	4	1.8		0	fg.			0.09	2.3	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.22	712.2	29.87	758.7	64.0	17.8	93	w.	4	1.8			10 s		w.	0.14	3.6	threatening.	F. Z. Gosewisch.
Key West, Florida	29.96	761.0	29.98	761.5	80.5	26.9	82	e.	5	2.2		3 cs	1 ks			0.60	15.2	fair	A. W. Browne.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	71.5	21.9	96	w.	1	0.4		6 k	0	w.		0.04	1.0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.08	738.6	30.10	764.5	65	18.3	87	se.	2	0.9		3 c	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.14	740.1	29.91	759.7	58	14.4	83	nw.	24	10.7			10 s		nw.	0.93	23.6	cloudy	S. C. Emery.
Leavenworth, Kansas	29.14	740.1	30.02	762.5	63	17.2	73	calm.	0	0		0	0			0.02	0.5	clear	T. S. Outram.
Lewiston, Idaho	29.15	740.4	29.98	761.5	53.0	11.7	55	ne.	1	0.4		0	sk.			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	69	20.6	93	calm	0	0			10 s			0.90	22.9	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.98	761.5	57	13.9	93	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.95	760.7	70	21.1	76	s.	5	2.2		3 c	7 ks	w.	sw.	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.40	746.7	30.08	764.0	66	18.9	90	calm	0	0		0	fg.			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.13	739.9	29.78	756.4	63.0	17.2	93	sw.	3	1.3			10 n		sw.	0.16	4.1	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	72.0	22.2	97	n.	5	2.2		0	8 s		n.	0.03	0.8	cloudy	William Daly.
Maginnis, Fort, Montana	25.60	650.2		762.0	45	7.2	63	se.	4	1.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan			30.00	759.4	55.0	12.8	80	nw.	12	5.4		8 k	0	nw.		0.53	13.2	cloudy	J. Gilligan.
Memphis, Tennessee	29.18	741.2	29.00	761.7	70	21.1	100	calm	0	0			10 s			0.07	1.8	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.65	753.1	29.99	757.2	67	19.4	93	sw.	7	3.1			10 s			0.30	7.6	threatening.	W. Line.
Missoula, Fort, Montana	29.07	738.4	29.81																J. H. Young.
Mobile, Alabama										1.3		7 c	2 k	ne.	ne.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.00	762.0	30.04	763.0	76	24.4	90	ne.	3	0		7 cs	0			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.82	757.4	30.05	763.3	73	22.8	84	calm	0	1.8		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	29.01	736.8	30.00	762.0	51	10.6	100	nw.	4	4.5		0	0			0.15	3.8	clear	S. W. Beall.
Nashville, Tennessee	23.99	609.3	30.14	765.5	43.5	6.4	79	se.	10	1.8		9 cs	0	sw.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.45	748.0	30.02	762.5	69.0	20.6	79	se.	4	1.8		0	7 k		nw.	0	0	fair	J. H. Sherman.
New London, Connecticut	29.96	761.0	30.07	763.8	63.5	17.5	89	nw.	4	0.9			10s;fg			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	63	17.2	100	ne.	2	2.7		7 cs	2 s	w.		0	0	cloudy	M. Herman.
New York, New York	29.95	760.7	30.00	762.0	77.5	25.3	82	se.	6	1.8		0	fg.			0	0	clear	H. J. Peurod.
Norfolk, Virginia	29.93	760.2	30.10	764.5	67	19.4	84	ne.	4	0		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	30.04	763.0	30.07	763.8	70.0	21.1	87	calm	0	2.7		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	27.29	693.2	30.17	766.3	48.6	9.2	70	ne.	6	0		0	fg.		s.	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.96	761.0	30.00	762.0	45.5	7.5	93	calm	0	0		0	0			1.05	26.7	clear	A. Pollak.
Ooglaamie, Alaska	28.95	735.3	30.12	765.0	54.3	12.4	83	n.	8	3.6									P. H. Ray.
Oswego, New York												6 c	0			0	0	fair	J. G. Linsley.
Palestine, Texas	29.69	754.1	30.01	762.2	89.0	15.0	87	s.	9	4.0		6c;cs	0	w.		1.22	31.0	fair	L. M. Pindell.
Pensacola, Florida	29.48	748.8	30.03	762.7	72.0	22.2	97	s.	3	1.3			10 ks		e.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.02	762.5	30.05	763.3	75.2	24.0	80	e.	5	2.2		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	29.99	761.7	30.09	764.3	64.5	18.1	93	nw.	4	1.8		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	18.09	459.5	30.07	763.8	24	— 4.4	80	sw.	17	7.6		5 cs	fg.	w.		0	0	fair	G. C. Schaeffer.
Poplar River, Montana	29.23	742.4	30.02	762.5	64.0	17.8	90	calm	0	0		0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan					37	2.8	58	nw.					10 s			0	0	cloudy	M. H. Perry
Portland, Maine	29.20	741.7	29.87	758.7	64.0	17.8	84	s.	6	2.7			fg.			0	0	dense fog	W. W. Eichelberger.
Portland, Oregon	30.03	762 7	30.08	764.0	58.0	14.4	100	s.	1	0.4		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.	29.93	760.2	30.00	762.0	52.2	11.2	86	calm	0	0									F. P. Chaffee.
Prescott, Arizona												0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	24.85	631.2	29.95	760.7	45	7.2	81	s.	2	0.9			10 s			0.02	0.5	cloudy	O. N. Kitchel.
Punta Rassa, Florida	30.06	763.5	30.09	764.3	61.5	16.4	93	e.	1	0.4									W. J. Evans.
Red Bluff, California												0	hz.			0	0	clear	J. R. Williams.
Rochester, New York	29.60	751.8	29.96	761.0	58	14.4	69	se.	1	0.4									E. W. McGann.
Roseburg, Oregon												0	sk.			0	0	clear	J. J. Nanry.
Sacramento, California	29.51	749.5	30.06	763.5	47.4	8.6	83	ne.	3	1.3		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.88	758.9	29.95	760.7	56.0	13.3	80	se.	4	1.8		1 c	0			inap.	inap.	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.33	745.0	29.94	760.5	72.0	22.2	84	sw.	8	3.6			10 n		n.	0.12	3.0	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.11	739.4	29.14	740.1	40.5	4.7	96	nw.	25	11.2		0	0			0.04	1.0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.20	741.7	30.05	763.3	50.0	10.0	77	nw.	14	6.3		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	29.26	743.2	30.13	765.3	40	4.4	89	nw.	5	2.2		0	0			0	0	clear	J. Craig.
San Antonio, Texas	25.66	651.8	29.91	759.7	57	13.9	44	e.	2	0 9									J. H. Davis.
San Diego, California													10 s		w.	0	0	cloudy	F. R. Day.
Sanford, Florida	29.85	758.2	29.92	760.0	65.0	18.3	81	n.	5	2.2		2 c	0	e.		0.08	2.0	clear	J. B. Marbury.
Sandusky, Ohio	29.99	761.7	30.04	763.0	76	24.4	90	ne.	5	2.2		8c;cs	0	sw.		0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.27	743.4	29.94	760.5	67	19.4	73	sw.	12	5.4		1 k	0	n.		0	0	clear	B. A. Blundon
San Francisco, California	30.06	763.5	30.09	764.3	66.0	18.9	90	n.	4	1.8			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	29.94	760.5	30.02	762.5	55	12.8	93	w.	5	2.2									H. U. Jones.
Savannah, Georgia													fg.			0.60	15.2	dense fog	H. W. Ford.
Shaw, Fort, Montana	30.00	762.0	30.09	764.3	72	22.2	97	e.	3	1.3						0	0	clear	S. W. Morrison.
Shreveport, Louisiana	26.32	668.5	29.93	760.2	37	2.8	82	w.	2	0.9		0	10 s		e.	0.95	24.1	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.78	756.4	30.02	762.5	71.8	22.1	94	e.	2	0.9			3 ks		sw.	0.02	0.5	clear	W. M. Mattingly
Sitka, Alaska	28.82	732.0	30.04	763.0	68	20.0	90	calm	0	0		0	10 ks		e.	1.11	28.2	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.12	739.6	29.18	741.2	49.0	9.4	82	e.	12	5.4			fg.			0.28	7.1	dense fog	J. B. Campbell.
Smithville North Carolina	29.55	750.6	30.02	762.5	64.0	17.8	100	calm	0	0			fg.			0.06	1.5	dense fog	O. Parker.
Spokane Falls, Wash. Ter.	30.05	763 3	30.09	764.3	69.8	21.0	98	ne.	5	2.2		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	27.96	710.2	30.00	762.0	41	5.0	67	calm	0	0		0	4 s		sw.	0.64	16.3	fair	T. B. Jennings.
Starkville, Miss.	29.22	742.2	29.89	759.2	70	21.1	87	sw.	7	3.1									C. Dill.
Stockton, Fort, Texas												0	3 s			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona	27.05	687.1	30.01	762.2	68	20.0	90	e.	4	1.8		0	0			0	0	clear	R. C. Lord.
Toledo, Ohio					48.5	9.2	41	se.				8 cs	sk.	sw.		0	0	cloudy	A. Buell.
Tucson, Arizona	29.22	742.2	29.90	759.4	69	20.6	71	s.	3	1.3									J. L. Whiteside.
Unalashka, Alaska													10 n		nw.	0.33	8.4	light rain	Samuel Applegate.
Verde, Fort, Arizona	29.67	753 6	29.69	754.1	42	5.6	82	nw.	28	12.5		1	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi					53	11.7	40	n.					10 s		w.	0.62	15.7	cloudy	James Keneally.
Visalia, California	29.77	756.1	30.02	762.5	73.0	22.8	84	sw.	1	0.4									O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.													fg.			inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	29.99	761.7	30.10	764 5	66.1	18.9	86	calm	0	0						0	0	fair	F. H. Brandenburg.
Williamsport, Pa.	26.25	666.7	30.07	763.8	46	7.8	86	w.	4	1.8		4 c	0	w.					B. F. Hough.
Wilmington, N. Carolina												2 c	4 s		w.	0.34	8.6	fair	Samuel A. Haney.
Winnemucca, Nevada	30.04	763.0	30.10	764.5	71.0	21.7	84	nw.	1	0.4									J. Grover.
Yankton, Dakota												0	0			0.01	0.3	clear	E. H. Thompson.
Yuma, Arizona	28.88	733.5	30.17	766.3	44.4	6.9	85	nw.	7	3.1		0	0			0	0	clear	W. S. Delano.
	29.66	753.4	29.80	756.9	70.4	21.3	62	ne.	1	0.4		0	0						
Sub-series.																			
Bluefields, Nicaragua					78	25.6		w.			1		10 n		nw.	0.45	11.4	cloudy	W. H. Jackson.
Bogota, U. S. C.					53.6	12.0	69	nw.	7	3			10s;n		w.	0.020	0.5		Joaquin Gomez.
Kingston, Jamaica, W. I.	22.09	561.0	29.95	760.7	75.3	24.1	92	calm	0	0		10 cs	0	n.		1.08	27.4	cloudy	Robert Johnstone.
Paramaribo, S. A.					79	26.1	82	se.			3	4 c	5 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	30.06	763 5	30.07	763.8	80	26.7	85	s.			1	7 ck	3 ks	calm	s.	0	0	cloudy	Francisco J. Olsueros.
Rivas, Nicaragua, C. A.	29.46	748.3	30.02	762.5	74	23.3	90	e.			1	1 ck		se.		0.41	10.4	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory B. A.	30.10	764.5	30.10	766.1	37.0	2.8	95	sw.	10	4.5		2 c	1 s	sw.	sw.	0	0	fair	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 37° 55′, E. 23° 40′	30.15	765.8	81	27.2	78	ssw.			1		1	ssw.				sm'h		blue sky.
H. M. S. Coquette, N. 37° 25′, E. 23° 36′	30.10	764.5	80	26.7		nne.			2		2					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.09	764.3	79.5	26.4	78	calm			0		2							d. clouds.
H. M. S. Griffon, N. 32° 20′, W. 72° 45′	30.12	765.0	79	26.1	95	calm			0		1	e.						blue sky.
H. M. S. Iris, off Port Said, Egypt	29.95	760.7	81	27.2	87	nnw.			3		1							blue sky.
H. M. S. Tenedos, Sydney, C. B	29.99	761.7	55	12.8	93	ssw.			1		0							blue sky.
H. M. S. Tyne, N. 40° 43′, W. 9° 33′	30.20?	767.1?	64	17.8	83	se.			3		7	calm				2	wnw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.04	763.0	61	16.1	94	calm	0	0			10		ne.	0	0			foggy.
U. S. S. Alliance, Halifax, N. S	30.07	763.8	58	14.4	82	calm			0		2			0	0	sm'h		clear.
U. S. S. Galena, N. 21° 37′, W. 53° 50′	30.11	764.8	82	27.8	87	ene.			5		2		e.			mod.	ene.	fair.
U. S. S. Jamestown, Funchal, Madeira Islands	30.20	767.1	75	23.9	81	sw.			2		2					sm'h		fair.
U. S. S. Kearsarge, N. 40° 50′, W. 17° 40′	30.03	762.7	68	20.0	95	sse.			8		10		sse.			mod.	sse.	rainy.
U. S. S. Lancaster, Port Mahon, Minorca, Spain	30.13	765.3	78	25.6	86	se.			1		5		calm			sm'h		fair.
U. S. S. Portsmouth, N. 42° 08′, W. 69° 56′	30.09	764.3	61	16.1	100	ene.			2		10					sm'h		misty.
U. S. S. Powhatan, St. Johns, N. F	29.93	760.2	56	13.3	87	wsw.			3-4		5		wsw.					fair.
U. S. S. Quinnebaug, Port Mahon, Minorca, Spain	30.27?	768.8?	76	24.4	77	e.			1		2		e.			sm'h		fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.10	764.5	65	18.3	94	calm			0		2		w.	0	0	sm'h	nw.	clear.
U. S. S. Swatara, Picton, N. S	30.04	763.0	63	17.2	78	se.			1		0			0	0	sm'h		clear.
U. S. S. Vandalia, Halifax, N. S	30.07	763.8	55	12.8	93	n.			1		5		calm					fair
U. S. S. Yantic, St. Johns, N. F	29.94	760.5	57	13.9	81	wnw.			2-4		2							clear.
S. S. British Princess, N. 49° 55′, W. 28° 40′ †	29.31	744.5	58	14.4		ene.			6		6		e.	6 h'r	6 h'r	high	e.	cloudy.
S. S. Lord Gough, N. 45° 20′, W. 54° 52′	30.00	762.0	53	11.7		wsw.			3		5		w.	0	0	sm'h		fair.
S. S. Ohio, N. 50° 19′, W. 31° 40′ †	29.10	739.1	62	16.7	83	ene.			3		10		e.	12 h'r	12 h'r			cloudy.
S. S. Polynesian, off Fame Point, Gaspe, Canada	30.00	762.0	57	13.9		nw.			1		0			0	0	sm'h		clear.
S. S. Prussian, N. 53° 49′, W. 28° 29′	29.71	754.6	56	13.3		e.			6		10		sse.	8 h'r	8 h'r	cross	e.	drizzling.
S. S. Sardinian, N. 49° 20′, W. 66° 30′	29.93	760.2	54	12.2		wsw.			1		fg.			0	0	sm'h		foggy.
S. S. Alvo, N. 15° 16′, W. 74° 19′*	29.90	759.4	81	27.2		e.			5-6		9		e.	0	0	long	ese.	cloudy.
S. S. Andes, N. 36° 40′, W. 71° 45′			76	24.4		se.			1		5?		s.	0	0	sm'h		cloudy?
S. S. Avilla, N. 17° 46′, W. 67° 39′ *†	30.05	763.3	82	27.8		e.			3		4		e.	rain	rain	rg'h	e.	
S. S. Australia, N. 42° 07′, W. 46° 21′*†	29.97	761.2	60	15.6		wnw.			4-6		2		wnw.	0	0		wnw.	
S. S. Devonia, N 42° 00′, W. 64° 00′ *†	30.11	764.8	54	12.2		ne.			1		0					sm'h		clear.
S. S. Dorian, Leghorn, Italy	30.10	764.5																
S. S. Furnessia, N. 51° 07′ W. 20° 26′ †	29.79	756.7	61	16.1	82	se.			5		10		se.	0	0	r'gh	se.	overcast.
S. S. Carroll, N. 43° 15′, W. 66° 00′ *†	30.22?	767.6?	53	11.7	100	nw.			1		10		nw.	0	0	short	w.	dense fog.
S. S. Cephalonia, N. 49° 06′, W. 31° 02′	28.83	732.3	59	15.0	94	ene.			6		10		ssw.	18 h'r	18 h'r	con.	ene.	heavy rain.
S. S. Bothnia, N. 41° 42′, W. 50° 27′	30.04	763.0	69	20.6	80	e.			2		0			0	0	sm'h		clear.
S. S. Samaria, N. 42° 10′ W. 65° 23′*	30.12	765.0	55	12.8		ene.			3		fg.			1 h'r	1 h'r	sm'h		foggy.
S. S. France, N. 43° 20′, W. 57° 40′ †	30.05	763.3	62.6	17		w.			1		0			0	0	sm'h	se.	clear.
S. S. Arizona, N. 50° 21′, W. 35° 13′	29.29	744.0	56	13.3		nw.			7		10		nne.	0	0	high	n.	squally.
S. S. Wyoming, N. 43° 50′ W. 57° 15′	30.07	763.8	58	14.4		sw.			1		0			0	0	sm'h		clear.
S. S. Bohemia, N. 40° 26′, W. 70° 30′ †	30.08	764.0				ne.			3		10		ne.	0	0	sm'h	ne.	hazy.
S. S. Frisia, N. 42° 54′, W. 58° 07′	30.08	764.0				n.			2		4		n.	0	0	sm'h	n.	foggy
S. S. Gellert, N. 42° 14′, W. 56° 07′	30.03	762.7	63	17.2	37	ene.			3		1		e.	0	0	mod.	e.	clear.
S. S. Rugia, N. 49° 51′ W. 13° 26′	29.97	761.2	64	17.8		se.			6		5		sw.	0	0	long	w.	fair.
S. S. Westphalia, New York, N. Y	30.13	765.4	72	22.2	95	sw.			2		0			0	0			hazy.
S. S. Rhaetia, N. 41° 44′, W. 64° 45′ *	30.02?	762.4?	61	16.1		ene.			2		9		wnw.	0	0	sm'h	e.	hazy.
S. S. Nessmore, N. 51° 13′, W. 22° 09′ *	29.57	751.1	59	15.0	100	se.			7		10		s.	12 h'r	12 h'r	h'vy	sse.	misty.
S. S. Archimedes, N. 40° 30′, W. 62° 07′	30.04	763.0				ne.			4		9		ne	1½ hr	1½ hr	light	ne.w.	fine.
S. S. Hevelius, N. 5° 57′, W 29° 02′			82	27.8		sw.			5		10		sw.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Teneirs, N. 30° 50′ W. 17° 53′	30.20	767.1	78.5	25.8	60	calm			0	c	4 k	ese.	nnw.	0	0	3	wsw.	blue sky.
S. S. Sirius, N. 43° 52′, W 9° 38′	30.11	764.8				s.			3		3		s.	0	0	long	w.	clear.
S. S. Rio Grande, N. 27° 55′, W. 91° 19′ †	30.06	763.5	85	29.4		ne.			1		3		e.	0	0	sm'h		fair.
S. S. Chalmette, N. 31° 48′, W. 78° 20′ †	30.12	765.0	78	25.6		ne.			4		6		ne.	1 h'r	1 h'r	mod.	ene.	fair.
S. S. Alleghany, Baltimore, Md †	30.11	764.8	68	20.0		calm			0		0			0	0			foggy.
S. S. Archimede, Messina, Italy †	30.18	766.6	78	25.6		ne.			3		1		ne.	0	0			clear.
S. S. City of Merida, N. 31° 32, W. 79° 49′*†	30.10	764.5	78	25.6		ne.			2		1		sw.	1 h'r	1 h'r	mod.	e.	fine.
S. S. City of Washington, N. 19° 50′ W. 90° 47′ *†	29.95	760.7	82	27.8		e.			2		2		e.	0	0	sm'h		fine.
S. S. Cienfuegos, Nassau, Bahamas*	29.98	761.5	85	29.4		ne.			2		1		ene.	½ h'r	½ h'r	sm'h	ese.	clear.
S. S. Denmark, N. 42° 48′, W. 51° 30′ †	30.08	764.0	55	12.8		var.			1		3			0	0	sli't	n.	clear.
S. S. Egypt, Staten Island, N. Y	30.09	764.3	64	17.8		w.			2		2		w.	0	0			clear.
S. S. England, N. 40° 31′, W. 69° 34′	30.09	764.3				e.			2		fg.		e.	0	0	sm'h		foggy
S. S. Greece, N. 48° 59′ W. 23° 06′	29.40	746.7	58	14.4	100	sse.			8		10		s.	12 h'r	12 h'r	h'vy	sse.	raining.
S. S. The Queen, N. 49° 41′, W. 29° 42′			55	12.8		e.			6		10		se.	24 h'r	24 h'r	h'vy	ese	squally.
S. S. America, N 49° 30′, W. 16° 30′ *	29.86	758.4	63.5	17.5	80	se.			4		6		sse.	rain	rain	sm'h	se.	fair.
S. S. Donau, N. 44° 53′, W. 49° 54′	30.07	763.8				nw.			3		7		w.	0	0	mod.	nw.	fair
S. S. Elbe, N. 50° 08′, W. 25° 49′			59.9	15.5	89	se.			8		10		se.	8 h'r	8 h'r	high	se.	misty.
S. S. Habsburg, N. 49° 43′, W. 25° 32′	29.21	741.9				se.			8		10		se.; s.	14 h'r	14 h'r	h'vy	se.	drizzling.
S. S. Hermann, N 50° 21′, W. 18° 45′	29.86	758.4	62.6	17.0	84	se.			4		9		se.	0	0	long	se.	cloudy.
S. S. Main, N. 48° 43′, W. 39° 55′	29.58	751.3	53.6	12.0		nnw.			6		6		nnw.	5 h'r	5 h'r	r'gh	nnw.	squally.
S. S. Ohio, N. 39° 43′, W. 65° 39′	30.02	762.5				n.			3		10		n.	0	0	sm'h		cloudy
S. S. Weser, N. 42° 29′, W. 38° 13′	29.96	761.0				nnw.			6		2		nnw.	1 h'r	1 h'r	r'gh	nnw.	clear.
S. S. City of Augusta, N. 37° 27′, W. 74° 41′ †	30.14	765.5				ssw.			2		10		ssw.	0	0	sm'h		smoky.
S. S. Muriel, St. Thomas, W. I	29.98	761.5	84	28.9		ene.			3		0			0	0	sm'h		clear.
S. S. Orinoco, N. 37° 35′, W. 70° 34′ *†	30.02	762.5	76	24.4		nne.			1		1c?			½ h'r	½ h'r	light	s.	clear?
S. S. Nederland, N. 40° 28′, W. 73° 40′ *†	30.14	765.5	72	22.2	85	se.			2		0			0	0			foggy.
S. S. Rhynland, N. 45° 57′ W. 49° 21′	29.96	761.0	58	14.4	67	nw.			4		9		nw.	0	0	sm'h		cloudy.
S. S. Pennland, N. 50° 39′, W. 2° 30′	30.14	765.5	60	15.6	88	ne.			2		1		ne.	0	0	sm'h		hazy.
S. S. Switzerland, N. 50° 37′, W. 28° 42′ *†	29.16	740.7				ese.			7		8		ese.	9 h'r	9 h'r	h'vy	ese.	cloudy.
S. S. Vaderland, Antwerpt, Belgium	30.32?	770.1?	76	24.4		calm			0		1		nw.	0	0			clear.
S. S. Waesland, N. 40° 28′, W. 70° 44′	30.12	765.0	63	17.2		e.			2		fg.			0	0	sm'h		dense fog.
S. S. Zeeland, N. 42° 55′, W. 59° 11′ *†	29.98?	761.5?	52?	11.1?		calm			0		2			0	0	sm'h		clear.
S. S. P. Caland, Jersey City, N. J	30.10	764.5	68.4	20.2	92	calm			0		0							clear.
S. S. W. A. Scholten, Rotterdam, Holland	30.15	765.8	56.3	13.5	94	e.			1		8		e.					cloudy.
S. S. Caracas, La Guayra, Venezuela *†	30.00	762.0	82.5	28.1	81	calm			0		8			0	0	light	ene.	cloudy.
S. S. State of Georgia, N. 55° 28′, W. 9° 47′	30.12	765.0	68?	20.0?		wsw.			2		10			0	0	sm'h		misty.
S. S. State of Indiana, N. 43° 10′ W. 59° 00′ *†	30.10	764.5	56	13.3		ne.			2		2			0	0	sm'h		clear.
S. S. State of Nevada, N. 55° 12′, W. 9° 14′ †	30.11	764.8	55	12.8		calm			0		hz		nne.	0	0	sm'h		hazy.
S. S. Thingvalla, Copenhagen, Denmark †	30.27	768.8				ese.			2		2		ese.	0	0			clear.
S. S. Romano, off Humber river, Eng *†	30.30?	769.6?	70	21.1		se.			1		1			17 h'r	17 h'r			
S. S. Salerno, N. 41° 57′, W 60° 20′ *†	30.08	764.0	72?	22.2?		ene.			2		3		ene.	0	0	sm'h		clear.
S. S. Dominion, N. 56° 28′ W. 22° 04′ *†	30.01	762.2	58	14.4		e.			3		10		e.			r'gh	e.	cloudy.
S. S. Oregon, N. 49° 53′, W. 60° 07′	29.89	759.2	52	11.1		n.			1		1		n.			sm'h	n.	clear.
S. S. Texas, N. 56° 41′, W. 28° 41′ *†	30.05	763.3	54	12.2	87	e.			6		8		wnw	3 h'r	3 h'r	mod.	e.	cloudy.
S. S. Daniel Steinmann, N. 51° 15′, E. 2° 01′ *†	30.16	766.1				calm			0		0			0	0	sm'h		misty.
S. S. Saxon, N. 40° 20′, W. 71° — †	30.11	764.8				n.			1		8			0	0	sm'h		foggy.
S. S. Adriatic, N. 41° 30′. W. 55° 31′ *†	30.05	763.3	68	20.0		ene.			6				e.	0	0	mod.	e.	clear.
S. S. Celtic, Liverpool, Eng †	30.24?	768.1?	63	17.2	94	n.			4		5		n.	0	0	sm'h		fair.
S. S. Republic, N. 48° 33′ W. 40° 34′ *†	29.71?	754.6?	54	12.2	?	nnw.			6		7		nw.	sh'rs	sh'rs	mod.	nw.	squally.
S. S. Iowa, off Mine Head, Ireland †	30.15	765.8	59	15.0		s.			2		10		s.	0	0	sm'h		hazy.
S. S. Amsterdam, N. 47° 11′ W. 41° 21′ *	29.62	752.3	59.0	15		nw.			5								nw.	cloudy.
S. S. Algiers, N. 28° 05′ W. 80° 13′ *†	30.10	764.5				var.			1								ene.	squally.
S. S. City of Alexandria, N. 20° 45′, W. 90° 48′ *†	29.93	760.2	83	28.3		e.			2									d. clouds.
Bk. Arda, N. 51° 42′, W. 6° 41′ †	30.16	766.1				nw.			1		1		nw.	0	0			foggy.
Bk. Alpheus Marshall, N. 35° 40′, W. 53° 47′ *†	30.03	762.7	80	26.7	91	wnw.			3		3		nw.	0	0	light	wnw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 40° 18′, W. 73° 08′	30.11	764.8	65	18.3	94	ne.			3		10		ne.	0	0	sm'h	sse.	foggy.
Schr. Arthur Burton, Boston, Mass†	30.17?	766.3?				s			1		8		calm	0	0	sm'h		hazy
Schr. Abbie H. Gheen, N 40° 30′, W. 72° 00′†	30.10	764.5	66	18.9		ssw.			3									foggy.
S. S. Antonio Lopez, N. 34° 56′, W. 40° 39′	30.00	762.0	75	23.9	72	nw.			1		2			2 h'r	2 h'r	long.	nw.	clear.
Bk. Aquidneck, N. 37° 28′, W. 74° 37′*†	30.10	764.5	78	25.6		sw.			1				sw.			light	ese.	clear.
Bgt. Achsah, N. 33° 33′, W. 63° 06′†	30.09	764.3	83	28.3		wnw.			5		2		wnw.	0	0	mod.	wnw.	clear.
Bk. Aureola, N. 8° 11′, W. 26° 20′ †	29.88?	758.9?	90?	32.2?		ssw.			6		5		sw.	2 h'r	2 h'r	h'vy	s.	fair.
Bk. Adelaide, N. 20° 47′, W. 44° 05′†*	30.10	764.5				e.			2		3		e.	½h'r	½hr	light	sse.	clear.
Bg. Belle of the Bay, N. 26° 21′, W. 75° 55′†	30.01	762.2				ne.			1		4		ne.	rain	rain	sm'h	ene.	clear.
S. S. Cannonbury, Fajardo, Porto Rico, W. I *†	30.00	762.0				calm			0		8		e.	1 h'r	1 h'r	sm'h		cloudy.
Bk. Celestina, Genoa, Italy*†	30.18	766.6																
Bk. Ceylon, N. 39° 08′, W. 61° 28′†	30.00	762.0	78	25.6	82	nnw.			5		9		nne.	1½h'r	1½h'r	mod.	nnw.	squally.
Schr. C. R. Flint, N. 33° 15′, W. 61° 44′†	30.09	764.3	79	26.1		nw.			1		2		nw.	0	0	sm'h	nw.	clear.
Bk. Cato, N. 37° 00′, W. 19° 32′†	30.11	764.8				sw.			1		1		sw.					clear.
Bk. Don Justo, N. 58° 09′, W. 14° 25′						se.			1		5		se.	3 h'r	3 h'r	mod	ese.	fair.
Bg. Daphne, N. 30° 29′, W. 74° 05′			72	22.2		calm			0		0			0	0	sm'h	s	foggy.
Bk. Childwall, N. 27° 24′, W. 22° 00′*	30.06	763.5	80	26.7	74	ese.			3		6		ese.	0	0	sm'h		fair.
S. S. D. J. Foley, N. 25° 00′, W. 74° 30′*†	30.00	762.0	81	27.2	87	e.			2		7		e.	2 h'r	2 h'r	long	e.	cloudy.
Bkt. David A. Preston, Windsor, N. S.						n.			2		0			0	0			clear.
Bk. Diamant, N. 40° 01′, W. 72° 45′	30.12	765.0	64.6	18.1	98	n.			2		10			0	0	2	se.	foggy.
S. Dora, N. 42° 46′, W. 53° 56′*†	30.00	762.0	58.1	14.5		ene.			2-3					0	0	sm'h	ne.	blue sky.
S. David Stewart, N. 19° 40′, W. 58° 00′			88	31.1		ene.			3		4		ene.	0	0	mod.	ene.	
S. E. J. Spicer, Antwerp, Belgium	30.07	763.8	66	18.9	94	se.			1		0			0	0			clear.
Schr. Edith R. Seward, Brunswick, Ga.			79	26.1		nne.			1		4		ne.	3 h'r	3 h'r			clear.
Bk. E. D. Bigelow, Galveston Bar, Texas†	30.03	762.7	89	31.7		ssw.			1		2		sw.	0	0			fair.
Bk. Edmund Phinney, N. 29° 10′, W. 68° 14′†	30.15	765.8	82	27.8		se.			4		9			light	light	r'gh	ese.	cloudy.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.10	764.5	61	16.1		calm			0		10		calm	0	0			foggy.
S. Gatherer, N. 7° 50′, W. 30° 40′*	29.95	760.7	78	25.6	86	nw.			3		9		var.	2 h'r	2 h'r	sm'h	se.	cloudy.
Bg. George, Arroyo, Porto Rico, W. I*†	30.02	762.5	79	26.1		ene.			1		10		ene.	rain	rain			squally.
Bk. Galeon, N. 38° 18′, W. 16° 06′†	30.10	764.5	71	21.7		wsw.			5		2		sw.	0	0		wsw.	blue sky
Bk. Grey Eagle, N. 18° 38′, W. 43° 40′						calm			0		0			0	0	sm'h	e.	clear.
S. Hedwig, off Gibraltar, Mediterranean	30.11	764.9	69.4	20.8	89	sw.			3		5		sw.	0	0	1	w.	
Schr. Isabel Alberto, N. 27° 07′, W. 82° 50′†.	30.00	762.0				ene.			2		2		e.	shr's	sh'rs			clear.
Bk. Johanne, N. 59° 10′, W. 8° 55′*†	30.10	764.5	58	14.4		calm			0		5		ese.	0	0	long	e.	dense fog.
Schr. John L. Thomas, N. 26° 36′, W. 79° 41′*†	30.04	763.0	84	28.9	79	ne.			2		2		ene.	0	0	light	n.	clear.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.08	764.0	71	21.7	95	n.			2		0			0	0			clear.
Bg. Josefa, N. 51° 02′, W. 8° 15′†	30.15	765.8				ssw.			1		10			0	0	sm'h		foggy.
Bk. Lady Hincks, N. 32° 37′, W. 30° 15′ *†	30.00	762.0							4					rain	rain			cloudy.
Bg. L. & W. Armstrong, Ft. Royal, Martinque, W.I*†	29.98	761.5				e.			1		2		ene.	1½h'r	1½h'r	sm'h		clear.
S. S. Madrid, Kertch, Russia†	30.22	767.0	68	20.0	79	ne.			6		0			0	0			clear.
Schr. Norena, off Cape Ann, Mass.						baff			2		fg.			0	0	sm'h		dense fog.
Bk. Orpheus, N. 55° 45′, W. 32° 20′			52	11.1		n.			8					0	0	mod.	nne.	cloudy.
Bg. Rising Sun, N. 34° 06′, W. 73° 23′†	30.12	765.0	83	28.3		s.			1		3		ssw.	0	0	mod.	s.	clear.
Bk. Rosalie, N. 51° 54′, W. 6° 35′*†	30.14	765.5				wsw.			3		7		w.	0	0	sm'h		cloudy.
Bgt. Sunlight, N. 9° 17′ W. 58° 21′ *†	30.00	762.0				se.			3		9		se.	0	0	sm'h		cloudy.
Bg. Teneriffe, N. 44° 30′, W. 61° 40′ *	30.07	763.8				sw.			3		0					sm'h		fine.
Bk. Tuck Sing, N. 24° 24′, W. 81° 05′ *†.	29.96	761.0				e.			3		0			0	0	sm'h		fine.
Schr. Viola Reppard, Brunswick, Ga.			78	25.6		calm			0		2		se.					clear.
Bgt. Willie, N. 3° 16′, W. 24° 30′*†	30.06?	763.5?	83	28.3		s.			4		3		s.	0	0	mod.	sse.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 17° 09′, W. 38° 07′	30.13	765.3	74	23.3	83	e.			4		3	e.				2	ese.	blue sky.
H. M. S. Opal, S. 14° 15′, E. 1° 44′	30.12	765.0	64	17.8	89	se.			3		6	sse.				3	ssw.	d. clouds
H. M. S. Sylvia, India Light, Uruguay	30.40	772.1	53	11.7	97	ne.			4-6		4					4	ne.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, Guinea	30.01	762.3	74.3	23.5	83	ssw.			3		9	ssw.		0	0	2		gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay *.	30.46	773.7	54	12.2	80	ene.	16	7.2			8		ene.	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay*.	30.41	772.4	56	13.3	75	ne.			3		2		ne.			sm'h		clear.
Bk. E. L. Pettingill, S. 3° 58′, W. 30° 28′*†	30.20	767.1	78	25.0		sse.			5		2		sse.	0	0	sm'h	se.	
Bk. Great Surgeon, S. 33° 42′, W. 15° 10′*†	30.44	773.2	58	14.4		s.			6		5		ssw.	1 h'r	1 h'r	long	sw.	fair.
Bk. Godeffroy, S. 51° 06′ W. 63° 13′	29.75	755.6	43.0	6.1	99	w.			0-1		9			rain	rain	sm'h	nw.	foggy.
Bgt. Jas. Slater, Para, Brazil	29.98	761.5	83	28.3		ene.			3		0			0	0			clear.
Bkt. Louise Adelaide, S. 30° 05′, W. 46° 45′†.	30.37	771.4	66	18.9		ese.			4		3		se.	2 h'r	2 h'r	chop	se.	fair.
Bk. Mohican, S. 2° 12′, W. 30° 45′	29.94	760.5	82	27.8		sse.			4		9		ese.	3 h'r	3 h'r	mod.	ssw.	cloudy.
S. S. Olbers, Rio de Janeiro, Brazil	30.33	770.4	68.5	20.3	97	s.			3		10		s.	0	0	sli't	s.	overcast.
H. M. S. Boadicea, Simons Bay, Cape Colony	30.12	765.0	63	17.2		ese.			1		2	wnw.						blue sky.
Bg. John Wesley, S. 22° 15′, W. 33° 37′*†	30.25	768.3	75	23.9		se.			5		3		e.	0	0	cross	var.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 29′, E. 138° 25′	30.12	765.0	61	16.1	94	ne.			3		10	ne.				1	ne.	overcast.
H. M. S. Flying Fish, N. 37° 21′, E. 125° 55′	30.01	762.2	73	22.8	74	e.			1		9							misty.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.88	758.9	82.5	28.1	87	calm			0		10		w.					overcast.
H. M. S. Mutine, N. 7° 36′, W. 101° 35′	29.89	759.2	79	26.1		s.			1		9					4	s	showery.
H. P. M. S. Tamega, Canton, China	29.92	759.9	83.3	28.5	81	s.			2		2			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.14	765.5	73.5	23.1	93	calm			0		1		e.	inap.	inap.			clear.
U. S. S. Essex, Roze Island, Corea	30.02	762.5	74	23.3	95	ne.			2		10					sm'h		overcast.
U. S. S. Monocacy, Roze Island, Corea	30.05	763.3	75	23.9	72	n.			1		10		n.			sm'h		cloudy.
U. S. S. Palos, Hong Kong, China	29.92	760.0	80	26.7	87	ese.			2		5		e.					fair.
U. S. S. Pensacola, N. 19° 58′, E. 174° 20′ *	29.92	760.0	83	28.3	83	ese.			2		2		sse.	0	0	sm'h		clear.
U. S. S. Richmond, Yokohama, Japan	30.07	763.8	76	24.4	91	nne.			2		0			0	0			clear.
S. S. Coptic, N. 47° 09′, W. 166° 02′	30.08	764.0	51.0	10.6	69	nnw.			5		5		nw.	0	0	r'gh	nw.	squally.
S. S. Oceanic, San Francisco, Cal.	30.08	764.0	64	17.8	100	n.			3		6		n.	0	0	sm'h		d. clouds.
S. S. Columbia, Mouth of Willamette River†	30.01	762.2	55	12.8	90	calm			0		0							clear.
S. S. Oregon, N. 44° 42′ W. 124° 19′†	30.09	764.3	58	14.4	76	wnw.			1		7		nw.			sm'h		fair.
S. S. Ancon, N. 35° 26′ W. 121° 10′ †	29.98	761.5	58	14.4	88	nw.			2		10					light	wnw.	overcast.
S. S. State of California, San Francisco, Cal†	30.05	764.0	48	8.9	92	sw.			1		10							overcast.
S. S. Queen of the Pacific, N. 46° 30′, W. 124° 30′ †	30.05	763.3	57	13.9	87	ssw.			2		3?			0	0	sm'h		cloudy.
S. S. Victoria, off Yaguma, Oregon†	29.98	761.5	58	14.4	82	sw.			2		5		s.			light	wnw.	fair.
S. S. City of Pekin, N. 47° 30′, E. 177° 00′†	29.38	746.2	47	8.3	85	nw.			2		10		nw.	0	0	light	w.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.92	760.0	80	26.7	87	sse.			2		5		ese.	0	0			fair.
S. S. Rio de Janeiro, N. 25° 40′, E. 121° 42′†	30.01	762.2	82	27.8	83	e.			4		2		e.	0	0	mod.	ne	clear.
S. S. Colima, N. 26° 23′, W. 113° 45′†	29.87	758.7	70	21.1	90	nw.			4		2		nw.	0	0	mod.	nw.	clear.
S. S. Granada, La Libertad, San Salvador †	29.92	760.0	79	26.1	91	calm			0		10		se.	4 h'r	4 h'r	mod.		rainy.
S. S. San Blas, N. 35° 23′, W. 122° 04′†	30.01	762.2	56	13.3		nw.			4		10		nw.	0	0	mod.	wnw.	misty.
S. S. San Juan, N. 13° 18′ W. 89° 19′			82	27.8		nnw.			2		10 ks		wnw.	0	0	gr'd	ssw.	fine.
S. S. Armenia, N. 14° 00′, W. 119° 40′*	29.77	756.1	80	26.7	91	ese.			3		10			sh'rs	sh'rs	chop	var.	overcast.
S. S. Storm King, N. 35° 19′, W. 123° 54′*†	30.09	764.3	58	14.4		nnw.			5		2		nnw.	0	0	sm'h	nnw.	fine.
S. S. St. David, N. 45° 43′, W. 151° 57′*†	30.02	762.5	60	15.6	88	wnw.			6		6		wnw.	2 h'r	2 h't	h'vy	wnw.	showery.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.96	761.0	78.3	25.7	89	se.			2		10					sm'h		thud'r storm.
U. S. S. Hartford, S. 2° 38′, W. 81° 36′*	29.96	761.0	66	18.9	94	s.			2		10		s.	rain	rain	sm'h	s.	cloudy.
U. S. S. Iroquois, Callao, Peru	30.01	762.2	60	15.6	88	sse.			2		10							misty.
U. S. S. Lackawanna, Arica, Peru*	30.01	762.2	60	15.6	82	calm			0		10							cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	58	14.4	94	se.			3		10		sse.			mod.	w. m	isty.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. Zealandia, S. 17° 41′, W. 172° 18′	29.98	761.5	80	26.7	91	e.			4		0					sm'h		clear.
Bk. Chas. Stewart, Lobos de Afuera Island, Peru†	30.06	763.5	68	20.0		se.			1					0	0	mod.	se.	dense fog.
S. David Crocket, S. 41° 48′, W. 107° 53′ *	29.58	751.3	48	8.[illegible]	78	s.			7		6		ssw.	5 h'r	5 h'r	h'vy	ssw.	showery.
S. Sovereign of the Seas, S. 33° 10′, W. 88° 24′ *†	29.84	757.9	60	15.6	94	nw.			7		7		nw.	5 h'r	5 h'r	r'gh	nnw.	d. clouds
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 18° 10′, E. 49° 28′	30.13	765.3				ese.			1		4	ese.				2	ese.	d clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.03	762.7	76	24.4	82	ese.			3		1	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	80	26.7	87	se.			4		3	sse.				3	sse.	d. clouds.
H. M. S. Woodlark, Bassorah, Turkey	29.88	758.9	98.5	36.9	47	w.			3		0							squally.
U. S. S. Juniata, Batavia, Java	29.91	759.7	82	27.8	100	nnw.			1		8		s.	light	light	sm'h	n.	fair.
S. S. Galatia, N. 8° 45′, E. 67° 51′†	29.90	759.4	83	28.3	75	w.			1		2		sw.	1 h'r	1 h'r	mod.	sw.	fine.
S. S. Benledi, N. 7° —′ E. 75° —′*	29.87	758.7	86	30.0	68	wnw			3		3		wnw.	0	0	long	se.	fine.
Bk. Pilgrim, S. 29° 23′, E. 37° 50′*†	30.35	770.9				se.			2		4		se.	1 h'r	1 h'r	long	sw.	clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 17. 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.11	764.9	76.6	24.8	79	s.			5		0			0	0	clear	Roziere.
Algiers			30.11	764.9	75.2	24.0	66	wnw.			5		0			0	0	clear	Thève.
La Galle			30.15	765.9	79.5	26.4	65	nnw.			2		3			0.236	6.0	pretty fair	Fonfrède.
Tunis			30.10	764.6	79.9	26.6	63	nne.			2		5			0.138	3.5	cloudy	Delord.
Saida																			Pérès.
Tebessa			30.16	766.1	65.1?	18.4?	79	se.			2		4			0	0	cloudy	St. Martin.
Geriville			30.12	765.1	82.4	28.0	12	nw.			2		4			0	0	cloudy	Forfert.
Laghouat			30.15	765.7	87.1	30.6	31	sse.			1		1			0	0	very fair	Abraham.
Biskra			30.06	763.4	89.6	32.0	37	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.10	764.5	62.3	16.8	47	ne.	11	4.9		5 c		wnw.		0	0	fine	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.09	764.3	30.18	766.6	54.0	12.2	80	nne.	6	2.7			7			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.63	752.5	30.17	766.2	68.5	20.3	64	ne.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.42	747.2	30.17	766.3	68.4	20.2	62	e.	0.7	0.3			10			0	0		Dr. Wierzbiski
Eperies	29.22	742.2	30.08	763.9	68.7	20.4	66	calm			0	6 cs				0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.81	731.7	30.20	767.1	72.3	22.4	37	ese.			2		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.80	731.4	30.11	764.7	65.8	18.8	79	ne.			1		8			0.028	0.7	dull	The Staff.
Lemberg	29.27	743.5	30.24	768.0	67.5	19.7	46	se.			3		3			0	0		Dr. T. Stanecki.
Pola	29.97	761.1	30.07	763.8	74.3	23.5	71	wsw.			4		4			0	0		I. R. Hydrographic Office.
Szathmar	29.74	755.5	30.19	766.9	75.0	23.9	85	s.			3		5			0	0		Joseph Midlinszky, S. J
Szegedin	29.91	759.7	30.19	766.7	65.1	18.4	83	se.			2		10			0.098	2.5		Karl Stancel.
Trieste	30.06	763.5	30.16	766.0	73.0	22.8	68	nw.			1		3			0	0		Royal Academy.
Vienna	29.49	749.0	30.20	767.1	61.5	16.4	92	se.			1		10			0.091	2.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.08	764.0	30.18	766.6	58.7	14.8	83	ne.	4	1.8			4			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.94	760.5	30.17	766.3	58.6	14.9	77	ese.	7	3.1			10					overcast	S. Call.
Bidston, Liverpool Obs'y			30.17	766.3	68.8	20.4	60	se.	9	4.0			2					misty	John Hartnup.
Bolton, Sharples	29.65	753.1	30.18	766.6	67.4	19.7	70	s.	12	5.4			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.78	756.4	30.18	766.6	64.5	18.1	63	se.			1		2			0	0	blue sky	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	86.0	30.0	65	ne.			3		2					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	30.11	764.8	30.22	767.6	73.0	22.8	54	se.			0.2		3					d. clouds	John McLaren.
Chatham, School M. E.	30.02	762.5	30.19	776.8	69.9	21.1	68	e.			1		0					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.97	761.2	30.20	767.1	58.6	14.8	91	s.			1		10					overcast	The Staff.
Fort Napier, Natal	27.68	703.1	29.91	759.7	86.0	30.0	42	nw.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	87.0	30.6	76	se.			2		5					drizzling	J. W. Smith.
Galway, Queen's College	30.03	762.7	30.06	763.5	60	15.6	82	se.			2		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.13	765.3	30.18	766.6	76.0	24.4	91	e.			3		8					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.99	761.7	30.19	766.8	58.0	14.4	77	wnw.			2		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.04	763.0	30.21	767.3	73.2	22.9	50	ese.			1		1					blue sky	The Staff.
Guernsey	29.90	759.4	30.20	767.1	60.5	15.8	91	ese.			1		10					foggy	A. Collenette, F. M. S
Kew, Observatory	30.17	766.3	30.20	767.1	69.9	21.1	60	ese.	7	3.1			4					d. clouds	The Staff.
Leicester, Museum	29.94	760.5	30.18	766.6	71.2	21.8	61	sw.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.92	760.0	30.00	762.0	76.4	24.7	84	ne.			2		4			0.05	1.3	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.89	759.2	29.94	760 5	83.0	28.3	73	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.97	761.2	30.20	767.1	70.1	21.2	56	se.			1		0					blue sky	The Staff.
Plymouth	30.12	765.0	30.19	766.8	59.0	15.0	92	calm			0		10					misty	John Merrifield.
Sandwick Manse, Orkneys	30.07	763.8	30.17	766.3	54.2	12.3	91						10					foggy	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	30.03	762.7	30.09	764.3	80.8	27.1	45	ne.			2		4					d. clouds	W. H. Lyne.
Sheffield	29.90	761.0	30.24	768.1	69.2	20.7	62	s.			1		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.16	766.1	30.19	766.8	59.7	15.4	84	se.			1		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.20	767.1	64.8	18.2	78	n.	1	0.4			7					misty	W. C. Carlisle.
Strathfield Turgiss					72.3	22.4	65	se.			0.5		1					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.14	765.5	30.22	767.6	64	17.8	78	se.			2		10					gloomy	W. Newcombe.
Valencia, Observatory	30.00	762.0	30.03	762.7	60.0	15.6	89	se.	32	14.3			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.08	764.0	77.0	25.0	82	e.	5.0	2.2		6 c	3 n	w.	e.	0.055	1.4	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.74	755.4	29.78	756.4	60	15.6	88	s.	18	8.0		10 c		w.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.86	758.4	29.91	759.7	62	16.7	73	sw.	8	3.6		2 c	10 s	sw.	sw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.78	756.4	29.84	757.9	58	14.4	77	sw.	5	4.0			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.73	755.1	29.92	760.0	51.8	11.0	90	n.			1		10 s			0.221	5.6	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.63	752.6	29.68	753.9	56.5	13.6		s.			1					0.15	3.8	overcast	H. A. Johnson.
Edmonton, N. W. T	27.38	695.4			36	2.2	29	w.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.76	755.9	29.78	756.4	50	10.0	90	w.	25	11.2			10 n			0.20	5.1	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.24	742.7	30.10	764.5	36	2.2	89	s.	8	3.6		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.82	757.4	29.88	758.9	58.0	14.4	89	sw.	4.0	1.8			fg.			0	0	dense fog	Prof. Thos. Harrison
Grand Manan, N. B	29.88	758.9	29.93	760.2	54	12.2	90	s.	12	5.4			fg.			0	0	dense fog	J. Chipman Seeley
Granton, Ontario	28.91	734.3	30.00	762.0	53.0	11.7	93	n.	5	2.2		8 cs	0	n.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.87	758.7	29.99	761.7	56	13.3	90	s.	1	0.4		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.60	751.8	29.98	761.5	53.7	12.1	90	ne.			1	10 cs		ne.		0.99	25.1	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.63	752.6	29.96	761.0	54	12.2	80	n.	6	2.7			10 n		n.	0.25	0.3	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.93	760.2	29.97	761.2	60.0	15.5	98	sw.			3	5 c	0	sw.		0	0	d. clouds	C. H. Rigby.
London, Ontario	29.12	739.6	30.01	762.2	53.7	12.1	90	ne.			2	3 c	0			0	0	blue sky	F. B. Reed.
Medicine Hat	27.49	698.2	29.73	755.1	49	9.4	44	sw.	7	3.1		0	2 s			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.71	754.0	29.91	759.7	52	11.1	90	nw.	8	3.6			10 s		ne.	0.49	12.4	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.73	755.1	29.97	761.2	52.8	11.6	85	n.				0	8 n			0.04	1.0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.37	746.0	30.08	764.0	45	7.2	100	n.	3	1.3		0	0			0.13	3.3	clear	Rev. E. Mosley.
Peterboro, Ontario	29.52	744.7	30.04	763.0	54.7	12.6	75	nw.			1	2 c	0	nw.		0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.29	744.0	29.98	761.5	52	11.1	100	ne.	18	8.0			10 n		ne.	0.44	11.2	threatening	H. Morgan.
Port Stanley, Ontario	29.33	745.0	29.97	761.2	54	12.2	93	ne.	10	4.5			10 n		ne.	0.13	3.3	light rain	M. Payne.
Que Appelle, N. W. T	27.59	700.8	29.83	757.7	47	8.3	63	s.	15	6.7		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.46	748.3	29.81	757.2	53	11.7	93	n.	15	6.7			10 n		w.	0.30	7.6	light rain	Capt. Asne, R. N.
Rockliffe, Ontario*	29.58	751.3	30.04	763.0	44	6.7	93	nw.	3	1.3			fg.			0.42	10.7	dense fog	W. H. McIntyre.
St. Andrews, N. B	29.84	757.9	29.89	759.2	54	12.2	99	s.	8	3.6			fg			0	0	dense fog	
St. John, N. B	29.80	756.9	29.95	760.7	52.9	11.6	100	s.	12	5.4			10 n			0.02	0.5	overcast	G. Hutchinson.
Saint John's, N. F	29.83	757.7	30.08	764.0	55	12.8	87	w.				0	0			0	0	clear	The Commandant.
Saukeen, Ontario*	29.34	745.2	30.05	763.3	57	13.9	86	ne.	4	1.8		2 cs	0			0.11	2.8	clear	
Stratford, Ontario	28.75	730.2	30.02	762.5	51.9	11.1	86	ne.	6.0	2.7			10 s			0.102	2.6	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F			30.00	762.0	56.8	13.8		sw.			1					0	0		The Commandant.
S. W. Point, Anticosti	29.61	752.1	29.64	752.8	54	12.2	93	se.	5	2.2		0	sk			0	0	smoky	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
Sydney, C. B.	29.92	760.0	29.98	761.5	58	14.4	93	sw.	10	4.5		0	5 s		sw.	0	0	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.66	753.4	30.03	762.7	55	12.8	80	n.	8	3.6		2 cs	7 s	w.	nw.	0.29	7.4	clearing	Magnetic Observatory.
Woodstock, Ontario	28.99	736.3	30.04	763.0	52.8	11.6	93	n.	9.5	4.2			10 n			0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.89	759.2	29.96	761.0	54	12.2	96	se.	2	0.9			10 s		s.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	63.0	17.2	89	wsw.	7.1	3.2		8 cs	0			0	0	hazy	I. Garfelt.
Springbok Fontein	27.87	707.9			71	21.7	45									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.04	762.9	30.11	764.9	53.2	11.8	90	e.			3		10					cloudy	Samuel Redolez.
Iquique	30.00	761.9	30.02	762.6	59.9	15.5	79	sw.			3							cloudy	Rafael Moreno.
Niebla	29.37	746.0	29.48	748.7	50.0	10.0	89	w.			7		4		w.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.98	761.5	30.07	763.8	55.4	13.0	82	ne.			1		6 s		sw.			cloudy	Manuel Tobar.
Punta Corona	29.60	751.9	29.79	756.7				n.			3	10				0.134	3.4	cloudy	Ignacio Ayala.
Valparaiso	29.81	757.1	29.95	760.7	54.1	12.3	87	n.			0							cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.33	643.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.89	759.2	29.92	759.9	71.8	22.1	91	nne.	6.7	3.0			9 k		n.	0.024	0.6	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.11	764.9	30.16	766.1	62.2	16.8	85	e.	9	4			8						Oversergent Fischer.
Fanoe	30.18	766.6	30.20	767.1	62.2	16.8	74	w.	9	4			1						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.17	766.4	30.22	767.5	45.7	7.6	85	e.	13	6			2						A. O. Thorlacius.
Thorshavn	30.09	764.2	30.11	764.8	54.1	12.3	99	calm	0	0			10					foggy	Overloerer Bergh.
Vestervig	30.09	764.3	30.18	766.6	61.5	16.4	79	wsw.	4	2			9						Loerer Oesterbol.
Egyptian.																			
Cairo	29.75	755.6			89.1	31.7		ne.	5.6	2.5			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.63	752.6	30.27	768.8	72.5	22.5	66	calm			0	ck		nw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.79	756.6	30.30	769.6	67.6	19.8	81	se.			1		8		nw.	0	0		M. Nicot, Director.
Avignon, Normal School	30.09	764.2	30.17	766.2	77.7	25.4	67	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.65	753.2	30.20	767.0	69.4	20.8	61	ese.			1		5 kn		ne.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.97	761.1	30.22	767.6	70.2	21.2	62	e.			1		8		ne.	0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.26	743.2	30.15	765.8	70.2	21.2	70	s.			1				sw.	0	0		M. Gobin, Director.
Bordeaux, Observatory	29.95	760.7	30.21	767.2	75.2	24.0	54	se.			1		2			0.008	0.2	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.67	753.6	30.21	767.2	76.1	24.5	62	e.			1				e.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.97	761.2	30.21	767.4	60.8	16.0	93	sw.			1		10			0	0	misty	M. de Kermarès, Dir.
Caen, Normal School	30.09	764.3	30.17	766.4	75.9	24.4	69	sw.			1		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.95	760.7	30.26	768.7	65.5	18.6	80	n.			1		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.71	754.7	30.22	767.5	63.7	17.6	78	ese.			1		10			0.04	1.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.85	732.8	30.17	766.2	71.6	22.0	53	n.			1		5			0.024	0.6		M. Alluard, Director.
Cluny, Normal School	29.37	746.0	30.22	767.5	72.1	22.3	59	n.			1				n.	0.098	2.5		M. de Villemontée, Dir.
Commercy, Normal School	29.37	746.0	30.21	767.4	65.1	18.4	88	e.			1		10 kn		e.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.07	702.9	30.13	765.2	71.6	22	52	s.			6		4 k		e.	0	0		M. Jarach, Director.
Gréasque, du Rhone	29.04	737.6	30.13	765.3	74.7	23.7	50	sw.			2		5		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.35	745.6	30.10	764.4	72.7	22.0	56	n.			1		k		n.	0	0		M. Ablard, Director
Guéret, Normal School	28.65	727.6	30.19	766.7	69.8	21	57	n.			1	2 ck		n.		0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.91	759.8	30.19	766.8	67.1	19.5	66	sse.			1		5		sse.	0	0	cloudy	M. Olitrault, Director
Lescar, Normal School	29.61	752.1	30.24	768.1	73.6	23.1	49	w.			1		0			0.031	0.8	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.14	765.2	30.23	767.8	64.0	17.8	75	sse.			1		10		calm	0	0	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.15	740.3	30.19	766.7	67.8	19.9	63	nnw.			1		2 n			0	0	slightly cl'dy	M. André, Director
Mans, Normal School	29.93	760.2	30.23	767.9	69.1	20.6		ssw.			1		2 k		s.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.87	758.7	30.13	765.4	71.6	22.0	65	wsw.			1–2		1			0	0		M. Stephan, Director.
Montlouis	25.04	636.1	29.89	759.1	55.4	13.0	55	e.	5.6	2.5			8		ne.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.00	762.1	30.11	764.8	78.4	25.8	69	sse.			2		1		sw.	0.083	2.1	clear	M. Galzin, Director.
Nantes, Observatory	30.09	764.3	30.21	767.4	67.1	19.5	75	ssw.			0–1		10 n;kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.08	763.9	30.18	766.6	75.4	24.1	46	ne.	5.6	2.5			2		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544.6			44.6	7.0		nw.			1		5		w.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.10	739.1	30.13	765.3	75.2	24	44	n.			1		n			0	0		M. Talliou.
Puy de Dôme Obs'y, Summit	25.39	645.0			50.5	10.3	86	n.			1		5			0.087	2.2		M. Alluard.
Rochefort, Naval Obs'y	30.18	766.6	30.21	767.4	70.9	21.6	77	calm			0		8		w.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.99	761.8	30.21	767.2	71.2	21.8	98	sw.			1		5	n.	sw	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.08	713.3	30.21	767.4	59.7	15.4	74	nw.			1		1		se.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.19	766.8	30.24	768.0	74.5	23.6	78	n.			2		5	w.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.06	763.6	30.23	767.8	73.0	22.8	58	ene.			1		1		ne.	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.54	750.3	30.27	768.8	75.7	24.3	55	sw.			1		1	ne.		0.126	3.2	clear	M. Bailland, Director.
Tours	30.04	762.9	30.21	767.4	69.8	21.0	65	s.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.73	755.1	30.22	767.6	70.2	21.2	62	n.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.08	763.9	30.22	767.7	73.8	23.2	58	s.	5.8	2.6		4 c;ck		w.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.74	729.9	30.17	766.4	60.1	15.6	90	w.			2		10	w.		0.134	3.4		Prof. Jnedt.
Bamberg	29.31	744.4	30.16	766.0	65.7	18.7	75	calm			0		7 k			0.008	0.2	light rain	Prof. Dr. Hoh.
Berlin	30.01	762.2	30.15	765.8	71.6	22.0	67	se.			1		8			0	0		Dr. Lensch.
Breslau	29.67	753.5	30.20	767.1	69.3	20.7	60	s.			2		10					rainy	Royal University Obs'y.
Carlsruhe	29.76	755.8	30.22	767.5	60.1	15.6	100	sw.			1		10	nw.		1.260	32.0	raining	Albert Senz.
Cassel	29.48	748.8	30.19	766.9	61.2	16.2	84	n.			4		8	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.80	757.0	30.15	765.9	73.4	23.0	58	n.			1		9			0.480	12.2		Physical Society.
Friedrichshafen	28.76	730.6	30.15	765.7	68.4	20.2	81	sw.			1		6	w.		0.016	0.4		wilhelm, Chief Tel.
Hamburg	30.11	764.7	30.20	767.0	61.2	16.2	87	nnw.			2		10			0	0	foggy	E. Preiler.
Kiel	30.17	766.2	30.18	766.6	62.8	17.1	81	calm			0		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.74	755.5	30.16	766.0	66.9	19.4	68	nw.			2		9			0	0		H. Leppig, Asst.
Magdeburg	29.98	761.4	30.16	766.1	68.2	20.1	73	nw.			2		8	nw.		0	0		Weather Observatory.
Memel	30.23	767.8	30.28	769.0	70.0	21.1	44	s.			4		0					clear	Isermann.
Munich	28.35	720.0	30.22	767.6	64.9	18.3	75	w.			1		8	w.		1.461	37.1		Central Station.
Neufahrwasser	30.18	766.5	30.19	766.9	67.8	19.9	54	se.			2		5			0	0		A. Lothes.
Neustadt, Palatinate	29.65	753.1	30.18	766.6	63.1	17.3	88	w.			2		10	w.				raining	Dicknether.
Stuttgart	29.23	742.5	30.12	765.1	61.7	16.5	90	n.			1		10			0.228	5.8		Prof. Dr. Schoder.
Wustrow	30.10	764.4	30.12	765.0	64.0	17.8	79	ne.			2		8 k			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.77	756.1	30.14	765.5	79.2	26.2		ne.			2.0		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.74	755.4	29.79	756.7	83.8	28.8	68	sw.	28.0	12.5			2	sw.		0	0	d. clouds	
Deesa	29.33	744.9	29.80	756.8	85.0	29.4	59	sw.	8.0	3.6			8	sw.		0	0	d. clouds	
Bombay	29.85	758.1	29.89	759.1	82.3	27.9	78	w.	9.0	4.0			2	wsw.		0	0	d. clouds	
Poona, Yarrowda	28.02	711.7	29.88	758.8	78.6	25.9	65	w.	19.0	8.5			5			0	0	overcast	
Trichinopoly	29.57	751.0	29.85	758.1	87.5	30.8	60	ne.	0.1	0.04			10			0	0	d. clouds	
Bellary	28.32	719.2	29.75	755.6	91.5	33.1	36	w.	10.0	4.5			3			0	0	d. clouds	
Belgaum	27.33	694.1	29.87	758.7	74.6	23.7	77	wsw.	8.0	3.6			6	e.	w.	0.01	0.3	blue sky	
Lahore	28.99	735.5	29.68	753.9	90.1	32.3	58	calm	0	0			0			0	0		
Roorkee	28.78	730.9	29.65	753.2	89.8	32.1	71	calm	0	0			0			0	0	d. clouds	
Agra	29.14	740.2	29.69	754.1	94.1	34.5	44	nw.	6.0	2.7			4		nw.	0	0	overcast	
Nagpur	28.71	729.3	29.76	755.9	76.7	24.8	91	w.	7.0	3.1			10		sw.	0.71	18.0	d. clouds	
Jubbulpore	28.40	721.4	29.75	755.7	79.8	26.6	83	w.	8.0	3.6			6		nw.	0.19	4.8		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.33	745.0	29.71	754.6	76.2	24.6	93	n.	1.0	0.4			10			0.58	14.7		
Allahabad	29.39	746.5	29.70	754.4	79.7	26.5	96	ne.	2.0	0.9			10			0.18	4.6	gloomy	
Patna	29.50	749.4	29.69	754.0	86.2	30.1	80	se.	3.5	1.6			8	se.	se.	0	0	d. clouds	
Hazaribagh	27.68	703.1	29.69	754.2	74.8	23.8	95	nnw.	4.0	1.8			10		nnw.	1.39	35.3	thund'r stm'	
Cuttack	29.61	752.2	29.69	754.2	84.2	29.0	81	calm	0	0			7			0	0	d. clouds	
Calcutta, Alipore	29.68	753.9	29.70	754.4	83.5	28.6	86	ssw.	2.0	0.9			7	s.	s.	0	0	d. clouds	
Dhubri	29.59	751.6	29.71	754.6	80.3	26.8	93	calm	0	0			9			0.93	23.6	d. clouds	
Chittagong	29.67	753.6	29.76	755.9	81.7	27.6	88	calm	2.0	0.9			5			0	0	d. clouds	
Sibsagar	29.41	747.0	29.74	755.5	82.9	28.3	87	se.	2.0	0.9			10	sw.	sw.	0.41	10.4	overcast	
Jeypore	28.34	719.7	29.74	755.5	91.4	33.0	39	wnw.	5.9	2.6			4		w.	0	0	d. clouds	
Zanzibar	30.03	762.7			79.2	26.2	74	n.	1.9	0.8			3		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.73	755.1	30.13	765.2	73.9	23.3	56	calm	0	0			9			0	0		Prof. Giovanni Clodig.
Milan	29.65	753.0	30.15	765.9	72.5	22.5	64	s.	1.3	0.5			9	ssw.		0	0		Prof. G.V.Schiapparelli
Padua	30.06	763.5	30.17	766.2	72.7	22.6	59	n.	0.7	0.3			6	s.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.24	742.8	30.13	765.4	69.4	20.8	75	nw.	0.7	0.3			6	e.		0.047	1.2		Prof. F. F. Denza.
Genoa	29.95	760.7	30.13	765.4	71.6	22.0	58	nw.	1.3	0.6			10	calm		0	0		Prof. G. M. Garibaldi.
Mondovi	28.26	717.8	30.14	765.0	66.6	19.2	72	n.			2		8			0	0		Prof. D. C. Bruno.
Pesaro	30.07	763.8	30.12	765.0	68.4	20.2	86	ne.	11.9	5.3			10	wsw.		0	0		Prof. Luigi Guidi.
Florence	29.85	758.1	30.10	764.5	77.0	25.0	47	w.			2		10			0	0		Prof. Costantino Pitteri.
Leghorn	29.92	760.0	30.00	762.1	71.4	21.9	76	w.	1.3	0.6			6			0	0		Prof. P. Monte.
Rome	29.91	759.8	30.08	764.1	73.4	24.0	65	nw.	1.3	0.6			10			0	0		Prof. P. Tacchini.
Lecce	29.80	757.0	30.06	763.4	73.4	23.0	71	ese.	7.4	3.3			7	s.		0	0		Prof. C. de Giorgi.
Cosenza	29.21	741.8	30.07	763.8	73.4	23.0	61	wsw.	3.1	1.4			5	w.		0.303	7.7		Prof. D. Conti.
Cagliari	29.89	759.2	30.08	764.0	74.8	23.8	65	sw.			2		7	sw.		0	0		Prof. A. Pacinotti.
Palermo	29.84	758.0	30.09	764.2	73.4	23.0	71	wnw.	0.7	0.3			10	sw.		0	0		Prof. G. Cacciatore.
Syracuse	30.15?	765.9?	30.20?	767.0?	74.8	23.8	73	s.	4.3	1.9			10	ese.		0.181	4.6		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R.	29.56	750.7	30.06	763.6	76.1	24.5	80	se.	0	0			6	s.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.86	758.5	29.90	759.5	65.1	18.4	98	w.			2	0	0			0	0	clear	H. Hattori.
Awomori	29.84	757.9	29.87	758.7	64.7	18.2	89	s.	0.4	0.2		0	2 ck		sw.	0	0	fair	K. Ogawa
Hamamatsu	29.81	757.2	29.91	759.7	70.8	21.6	94	ne.			2	2ck;cs	1 k	sse.		0	0	fair	Sekigawa & Yamazaki.
Kagoshima	29.89	759.2	29.90	759.5	74.9	23.8	84	calm			0		9 cs;s		w.	0	0	cloudy	G. Miyanonaza.
Kanazawa	29.78	756.4	29.88	758.9	71.5	21.9	85	ese.	3.6	1.6		0	0			0.060	1.5	clear	S. Endo.
Kioto	29.71	754.7	29.89	759.1	71.9	22.2	93	n.	0.6	0.3			10ck;s		s.	0.101	2.6	cloudy	M. Tojima.
Kochi	29.88	759.0	29.90	759.5	75.5	24.2	88	w.	8.7	3.8			10 s		s.	0.25	6.4	overcast	K. Kusunose.
Miasaka	29.88	758.9	29.91	759.6	74.1	23.4	93	n.			1	1 ck	8 ks	nw.	e.	0	0	cloudy	K. Masusaki.
Miyako	29.83	757.7	29.94	760.5	63.4	17.4	96	wsw.	inap.	inap.		0	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.98	753.9	29.87	758.7	75.6	24.2	83	calm	0	0		6 cs	4 s	w.		0.050	1.3	cloudy	S. Takehayasu.
Niigata	29.84	757.9	29.87	758.7	73.0	22.8	86	e.	1.6	0.7			10ks;s		sw.	0.025	0.6	cloudy	Satoo & Tomikawa.
Nobiru	29.89	759.3	29.91	759.7	74.4	23.6	87	sse.	14.5	6.5			10 ks		s.	0	0	overcast	Yoslino & Midzushina.
Numazu	29.89	759.2	29.92	760.0	70.3	21.3	86	ese.			1	1cs;ck	1 s			0	0	clear	R. Kaneda.
Osaka	29.88	758.9	29.89	759.3	74.9	23.8	81	ne.	4.9	2.1		5ck;cs	4s;ck	ssw.	ssw.	0	0	cloudy	H. Omura.
Sakai	29.83	757.8	29.84	758.0	72.8	22.7	86	calm			0		10s;ks		wsw.	0.102	2.6	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.73	755.2	29.88	758.9	75.4	24.1	88	calm			0		10 s		nw.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.80	758.4	29.93	760.3	73.1	22.8	92	ese.	3.0	1.3		0	5 ks;s		se.	0	0	fair	The Staff.
Wakayama	29.82	757.5	29.87	758.8	74.3	23.5	86	e	1.4	0.6		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	73.0	22.8	57	ese.	18.5	8.3		0	6k;ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.32	617.7	29.98	761.5	59.0	15.0	92	wnw.	0.9	0.4		3 c	7ck;s		e.	0.483	12.3	overcast	Prof. M. Leal.
Mazatlan	29.66	753.4	29.92	760.0	78.0	25.6	93	nne.	1.6	0.8			10 n			0.512	13.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata					77	25.0	90	ne.			1		10 n			0.26	6.6	raining	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.24	768.2	30.24	768.2	67.3	19.6		se.			3					0.008	0.2		
Groningen	30.18	766.5	30.23	767.9	59.7	15.4		n.			1					0	0		
Helder	30.23	767.8	30.23	767.8	61.7	16.5		e.			1					0	0		
Hellevoetsluis	30.24	768.2	30.24	768.2	65.3	18.5	83	sw.			1					0	0	sli'ly cloudy	H. van der Brink
Utrecht	30.21	767.3	30.26	768.5	61.0	16.1	78	ene.			2		2			0	0		
Sub-series.																			
Batavia, Java	29.92	759.9			77.9	25.5	79	ese.	0	0			8			0.008	0.2		Lt.J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.09	764.2	30.15	765.8	57.2	14.0	92	se.	6.3	2.8			10			0.217	5.5	raining	
Brono	30.03	762.8	30.07	763.8	56.8	13.8	82	calm			0		10			0	0		
Christiania	30.00	761.9	30.14	765.6	63.9	17.7	56	wsw.	2	1			8			0	0		
Gjæsvær	29.94	760.4	29.96	761.0	46.8	8.2		w.			6		10						
Lodingen	30.00	762.0	30.05	763.2	57.7	14.3	72	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					70.9	21.6	86	wsw.	3.8	1.7			6			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.16	766.0	30.24	768.2	75.2	24.0	67	sw.	7.4	3.3			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.91	759.6	30.24	768.0	70.0	21.1	67	wsw.	9.4	4.2			2			0	0		The Staff.
Ponta Delgada, Azores	29.97	761.3	30.04	763.1	77.7	25.4	68	calm	0	0			4			0	0		
Saint Paul de Loanda	29.83	757.7	30.04	762.9	72.2	22.3	90	wnw.			2		10			0	0		
San Salvador, Congo	28.15	714.9	29.99	761.8	74.7	23.7	66	calm			0		10						
Serra da Estrella	25.53	648.5	30.18	766.6	60.3	15.7	29	wsw.	1.8	0.8			7			0	0		
RUSSIAN.																			
Akmolinski	28.74	729.9	29.80	756.9	54.9	12.7	58	w.	11	5		7 ck	0			0.024	0.6		Major K. Lasarew.
Archangel	30.19	766.8	30.21	767.3	49.8	9.9	63	sse.	13	6			10			0.059	1.5	light clouds	Capt. Sselliwerstow
Ashurada	30.23	767.8	30.13	765.4	76.3	24.6	65	nnw.	7	3		0	3 ks			0	0		
Astrakhan	30.31	769.8	30.24	768.0	74.3	23.5	35	s.	2	1		0	4 k			0	0		Capt. Wisganow.
Baku	30.23	767.9	30.19	766.7	70.5	21.4	77	calm	0	0		0	7 ks			0.035	0.9		
Barnaul	29.40	746.7	29.90	759.5	45.0	7.3	86	sw.	13	6			9			0.157	4.0		Meteorological Obs'y
Bielosersk	29.89	759.2	30.35	770.9	61.2	16.2	75	calm	0	0			9 ks			0	0		
Dorpat	30.11	764.8	30.35	770.8	70.3	21.3	44	sw.	11	5		0	0			0	0		Observatory.
Ekaterinburg	29.02	737.1	29.99	761.8	43.3	6.3	50	n.	13	6			7			0.028	0.7		Meteorological Obs'y.
Elissawetgrad	29.89	759.3	30.33	770.4	75.6	24.2	31	ene.	7	3		0	8 ks			0	0		
Irkutsk	28.37	720.6	30.03	762.8	42.6	5.9	66	calm			0		4			blank	blank		
Kasalinsk																			
Kasan	30.00	761.9	30.26	768.7	61.3	16.3	44	n.	20	9		0	4 k			0	0		Observatory.
Kem	30.08	763.9	30.13	765.2	60.3	15.7	64	w.	13	6			10 k			0	0		
Kertch	30.14	765.5	30.16	766.1	70.9	21.6	51	ne.	9	4		0	0			0	0		Lagorio & Sastyrea.
Kieff	29.70	754.3	30.32	770.0	72.5	22.5	35	e.	4	2		0	5 ks			0	0		Observatory.
Koslov	29.84	757.8	30.33	770.4	68.0	20.0	46	nne.	4	2		0	4 ks			0	0		
Libau	30.24	768.0	30.26	768.6	69.4	20.8	53	sw.			2		0			0	0		E. Quass.
Lugan	30.03	762.7	30.22	767.7	76.8	24.9	28	ne.	13	6			7			0	0		Meteorological Obs'y.
Moscow	29.91	759.8	30.38	771.7	66.0	18.9	50	calm	0	0		0	2 ks			0	0		Meteorological Obs'y
Nikolaiev	30.20	767.0	30.27	768.8	77.7	25.4	35	ne.	9	4		2 c	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					56.5	13.6	88	se.	16	7			9 n						Iwanow.
Pekin, China	29.83	757.7	29.97	761.3	67.6	19.8	65	calm	0	0		4 cs	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.88	759.0	30.22	767.7	73.2	22.9	36	calm	0	0		8 ck	0			0	0		
Petrozavodsk	30.10	764.6	30.30	769.5	62.6	17.0	53	nw.	9	4		8 ck	0			0	0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.82	757.4	30.30	769.7	74.7	23.7	40	se.	13	6		0	3 k			0	0		
Poti	29.98	761.6	30.02	762.4	74.3	23.5	83	ssw.	4	2			10 n			0.311	7.9		
St. Petersburg	30.31	769.8	30.33	770.4	69.4	20.8	46	sw.	4	2		0	6 kn			0	0		Central Physical Obs'y.
Samarkand	27.74	704.6	30.16	766.0	68.4	20.2	44	calm	0	0		1 c	0			0	0		
Semipalatinsk	29.41	747.1	30.08	763.9	50.9	10.5	71	wnw.	13	6			10			0.031	0.8		Major Lasarew
Sevastopol	29.94	760.4	30.14	765.6	75.6	24.2	28	ene.	40	18		0	1 s			0	0		
Staroi Bykhov	29.82	757.5	30.36	771.2	72.1	22.3	73	ese.	7	3		0	8 k			0	0		
Tashkend Laboratory	28.53	724.6	30.15	765.8	72.5	22.5	28	calm	0	0		0	6			0	0		Terch, A. M
Tiflis	28.80	731.5	30.22	767.5	58.5	14.7	91	calm	0	0			10 n			0.106	2.7	raining	Physical Observatory.
Vernoe	27.67	702.8	30.14	765.5	62.2	16.8	40	calm	0	0		1 c	0			0	0		
Viatka	29.67	753.5	30.31	769.8	47.5	8.6	55	nw.	4	2			0			0	0		
Warsaw	29.80	756.9	30.21	767.4	68.2	20.1	53	se.	9	4		1 cs	0			0	0	light clouds	Astronomical Obs'y.
Yeniseisk	29.61	752.0	29.90	759.4	40.8	4.9	92	e.	4	2			10			0.134	3.4	raining	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766.4	74.5	23.6	72	se.	4.0	1.8		0	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.14	765.5	30.20	767.0	82.2	27.9	48	se.	1.8	0.8		3	1	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	692.9	30.18	766.5	68.9	20.5	49	sw.	1.8	0.8			1			0	0	almost clear.	Domingo Martin.
Madrid, Royal Obs'y	28.02	711.7	30.17	766.2	78.4	25.8	38	sw.	6.0	2.7			9			0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.06	763.4	30.19	766.7	79.3	26.3	61	ese.	2.2	1.0		4	4	w.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.40	746.8	30.16	766.1	61.7	16.5	90	s	8.5	3.8				n.	n.	0	0	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.25	743.0	30.13	765.4	67.6	19.8	67	sw.	4.3	1.9			8			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.86	758.5	29.93	760.2	76.3	24.6	87	se.	1.6	0.7		cs	k	ne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.9	29.89	759.3	76.5	24.7	95	s.	6.6	3.0			10 n			0.197	5.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.13	765.2	30.22	767.6	78.8	26.0	55	wsw.	5.8	2.6		4	4	ne.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.89	759.3	29.98	762.6	79.2	26.2	84	se.	3.4	1.5		6 cs	7 kn	se.	se.	0.079	2.0	cloudy	Enrique Gades, Chf Eng
Swedish.																			
Haparanda	30.06	763.5	30.10	764.5	56.1	13.4	98	sw.			4		5			0	0		
Umea	30.13	765.3	30.18	766.6	55.2	12.9	90	sse.			2		8			0	0		
Hernosand	30.13	765.4	30.19	766.7	58.3	14.6	76	s.			2		3			0	0		
Stockholm	30.04	763.0	30.22	767.5	66.2	19.0	54	sse.			2		9			0	0		
Wisby	30.16	766.1	30.22	767.6	69.4	20.8	50	s.			4		0			0	0		
Sub-series.																			
Upsala	30.11	764.7	30.19	766.9	66.0	18.9	57	sse.	7.6	3.4			9		sw.	0.008	0.2		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.77	730.8	30.16	766.0	67.5	19.7	68	ne.			2		4			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			30.14	765.5	73.9	23.3	61	nne.	19	8.5			8		ne.	0	0		The Observatory.
Valona			30.19?	766.8?	75.7	24.3		w.			1		5			0.20	5.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.87	758.6	86.5	30.3	54	sw.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.03	686.5			76	24.4	66	e.			1	1 c	1 ks	calm	calm	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	29.80	756.9	29.88	758.9	68.5	20.3	84	s.	6	2.7			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.13	765.3	49	9.4	93	nw	6	2.7		0	0			0.01	0.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.84	757.9	47	8.3	66	ne.	2	0.9		7 k	0	e.		0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.06	687.3	29.91	759.7	52	11.1	61	sw.	15	6.7		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.82	732.0	29.99	761.7	70.0	21.1	90	calm	0	0		0	9 s; fg		w.	0.39	9.9	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.91	759.7	29.92	760.0	69	20.6	93	s.	8	3.6			10s; fg			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.79	756.7	29.98	761.5	73.0	22.8	90	se.	1	0.4			10 s			0	0	cloudy	D. J. Young.
Baltimore, Maryland	29.86	758.4	29.92	760.0	69	20.6	93	s.	2	0.9			10s; fg			0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	29.90	759.4	29.92	760.0	67.0	19.4	100	s.	8	3.6			fg.			0.03	0.8	dense fog	G. A. Hill.
Behring Id., Behring Sea	30.20	767.1	30.22	767.6	42.0	5.6	92	sw.	1	0.4		2 cs	0			0	0	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.43	722.1	30.02	762.5	51.0	10.6	55	se.	11	4.9		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	29.97	761.2	53	11.7	74	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.19	716.0	29.99	761.7	47	8.3	66	e.	8	3.6		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	65	18.3	100	sw.	10	4.5			fg.			0	0	dense fog	J. T. Eiker.
Boise City, Idaho	27.14	689.3	29.91	759.7	52	11.1		w.	2	0.9		0	0			0	0	clear	J. Keneally.
Boston, Massachusetts	29.76	755.9	29.91	759.7	63.0	17.2	93	sw.	10	4.5			10s; fg			0	0	threatening	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.97	761.2	77.0	25.0	97	calm	0	0		10c; cs	0	s.		0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.23	742.4	29.96	761.0	53.3	11.8	98	ne.	10	4.5			10 n		ne.	0.54	13.7	light rain	Wm. Finn.
Buford, Fort, Dakota	27.94	709.7	29.92	760.0	47	8.3	66	e.	9	4.0		4 k	0	e.		0	0	fair	A. Schneider.
Cairo, Illinois	29.66	753.4	30.06	763.5	64.6	18.1	86	n.	8	3.6			10 s		n.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.70	754.4	29.90	759.4	57.7	14.3	91	s.	14	6.3			10 n		s.	0.01	0.3	light rain	O. D. Stewart.
Cape Henry, Virginia	29.93	760.2	29.95	760.7	70.0	21.1	100	s.	3	1.3			fg.			0	0	dense fog	A. K. Alderson.
Cape May, New Jersey	29.89	759.2	29.92	760.0	68.0	20.0	100	s.	12	5.4			fg.			0	0	dense fog	W. E. Smith.
Cape Mendocino, California	29.26	743.2	29.94	760.5	60	15.6	75	n.			1	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.94	760.5	29.96	761.0	75.0	23.9	94	n.	5	2.2		4 cs	0	sw.		0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	73.0	22.8	100	e.	1	0.4			fg.			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.11	739.4	29.95	760.7	70.0	21.1	92	s.	3	1.3		10 cs	fg.	sw.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740.1	29.95	760.7	68.0	20.0	92	w.	5	2.2		5 cs	fg.	s.		0.31	7.9	fair	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.99	761.7	46.3	7.9	48	nw.	5	2.2			10 s		nw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.41	747.0	30.10	764.5	57.0	13.9	69	ne.	12	5.4		3 k	0	ne.		0.04	1.0	clear	Wm. Norrington.
Chincoteague, Virginia	29.92	760.0	29.94	760.5	71	21.7	100	s.	5	2.2			9 s			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.30	744.2	29.94	760.5	68.0	20.0	84	n.	7	3.1			10 s		n.	inap.	inap.	threatening	L. Dunne.
Cleveland, Ohio	29.20	741.7	29.92	760.0	63	17.2	91	ne.	10	4.5			10 n		ne.	0.43	10.9	light rain	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.07	738.4	29.91	759.7	63	17.2	93	w.	10	4.5			10 n			0.04	1.0	light rain	D. Outhbertson
Concho, Fort, Texas	28.14	714.7	30.04	763.0	63.0	17.2	93	w.	2	0.9		4 cs	0			inap.	inap.	fair	J. McGlous.
Custer, Fort, M. T.	26.79	680.5	29.91	759.7	52	11.1	50	s.	2	0.9		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.50	749.3	30.16	766.1	52	11.1	80	ne.	4	1.8		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.96	761.0	62	16.7	78	ne.	3	1.3		4 cs	0			0	0	fair	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.97	761.2	47.5	8.6	58	n.	3	1.3		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.35	643.9	29.91	759.7	51	10.6	80	s.	4	1.8		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	29.92	760.0	29.94	760.5	67	19.4	100	s.	8	3.6			fg			0	0	dense fog	T. S. Townsend.
Denver, Colorado	24.81	630.2	29.92	760.0	53.5	11.9	61	s.	2	0.9		0	2 s			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.20	767.1	45	7.2	83	n.	2	0.9		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.32	744.7	30.01	762.2	56.0	13.3	86	nw.	13	5.8			10 s			0.18	4.6	cloudy	E. R. Brace.
Dodge City, Kansas	27.60	701.0	30.15	765.8	53.5	11.9	83	e.	3	1.3		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.49	749.0	30.19	766.8	47.8	8.8	76	nw.	1	0.4		0	1 s; fg		n.	inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.44	747.8	30.18	766.6	49	9.4	77	calm	0	0		0	2 s			0	0	clear	N. B. Conger.
Eastport, Maine	29.85	758.2	29.92	760.0	55.5	13.1	93	s.	10	4.5			fg.		s.	0	0	dense fog	D. C. Murray.
Elliott, Fort, Texas	27.44	697.0	30.13	765.3	50	13.3	60	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.32	668.5	29.97	761.2	67.0	19.4	66	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.23	742.4	29.94	760.5	60	15.6	87	ne.	17	7.6			10 s		ne.	0.52	13.2	cloudy	C. A. Shaw.
Escanaba, Michigan	29.52	749.8	30.18	766.6	45.5	7.5	83	nw.	4	1.8		0	0			0.02	0.5	clear	George Heathcote.
Galveston, Texas	29.95	760.7	29.99	761.7	76	24.4	85	ne.	8	3.6		3 c	5 ks		sw.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.45	748.0	30.11	764.8	48.0	8.9	77	ne.	8	3.6		0	0			0.02	0.5	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.21	640.3	29.81	757.2	70.6	21.4	46	se.	13	5.8		3 ck	0	sw.		0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.93	760.2	29.95	760.7	74.0	23.3	90	sw.	2	0.9		3 c	hz.	sw.		0	0	clear	R. M. Crawford.
Helena, Montana	25.79	655.1	29.96	761.0	51	10.0	61	sw.	4	1.8		0	0			0	0	clear	T. H. Jones.

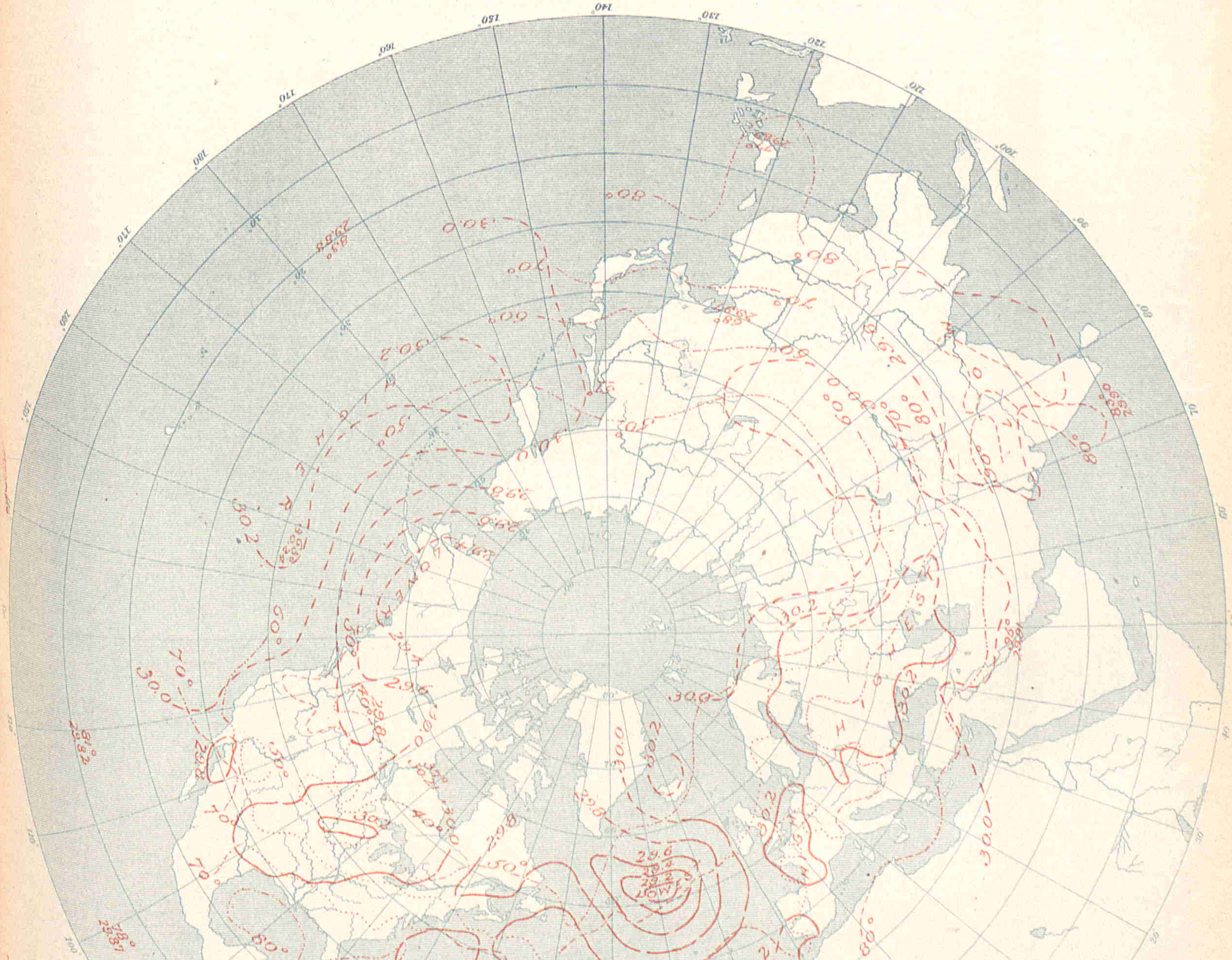
STATIONS.	BAROMETER. Corrected for instrumental error and for temperature. Inch.	Mill.	BAROMETER. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	WIND. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	CLOUDS. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.77	730.7	30.15	765.8	40	4.4	82	se.	7	3.1	...	0	0	...	...	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.20	741 7	29.98	761.5	57.0	13.9	86	n.	7	3.1	...	...	10 s	...	n.	0.90	22.9	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	77.1	25.1	94	n.	10	4.5	...	3 cs	2 ks	nw.	...	0.16	4.1	fair	I. A. Reed.
Jacksonville Florida	29.92	760.0	29.96	761.0	75.0	23.9	90	e.	4	1.8	...	5 cs	0	w.	...	0	0	fair	J. W. Smith.
Keogh, Fort, Montana	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. B. Lamar.
Keokuk, Iowa	29.48	748.8	30.13	765.3	53.0	11.7	86	n.	8	3.6	...	0	0	...	...	0.18	4.6	clear	F. Z. Gosewisch.
Key West, Florida	29.88	758.9	29.90	759.4	79.0	26.1	88	calm	0	0	...	0	1 ks	...	...	0.12	3.0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	71.5	21.9	94	w.	4	1.8	...	...	10 s	...	sw.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.94	735.1	29.96	761.0	68	20.0	91	sw.	5	2.2	...	6 cs	2 s	sw.	sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.22	767.6	50	10.0	77	n.	1	0.4	...	...	fg.	...	...	0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.30	744.2	30.18	766.6	50	10.0	77	calm	0	0	...	0	0	...	...	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.14	740.1	29.97	761.2	50.0	10.0	58	calm	0	0	...	...	sk.	...	...	0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.71	754.6	30.02	762.5	67	19.4	90	nw.	4	1.8	...	0	0	...	...	0	0	clear	W. U. Simons.
Los Angeles, California	29.51	749.5	29.90	759.4	57	13.9	93	w.	1	0.4	...	...	fg.	...	...	0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.39	746.5	29.94	760.5	63	17.2	93	w.	8	3.6	...	...	10 s	...	...	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.23	742.4	29.91	759.7	68.2	20.0	86	sw.	1	0.4	...	4c;cs	3 s	sw.	...	0	0	fair	Louis Duane.
Mackinaw City, Michigan	29.51	749.5	30.16	766.1	49.4	9.7	77	w.	2	0.9	...	0	0	...	...	0.12	3.0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.96	761.0	29.98	761.5	74.0	23.3	97	n.	2	0.9	...	8 cs	0	n.	...	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.53	648.5	29.93	760.2	56	13.3	64	sw.	4	1.8	...	0	0	...	...	0	0	clear	F. Burke.
Marquette, Michigan	29.46	748.3	30.18	766.6	47.0	8.3	82	w.	3	1.3	...	0	0	...	...	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.67	753.6	30.01	762.2	68	20.0	90	nw.	4	1.8	...	0	0	...	...	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.41	747.0	30.15	765 8	49	9.4	86	n.	11	4.9	...	0	1 ks	...	ne.	0.07	1.8	clear	W. Line.
Missoula, Fort, Montana	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. H. Young.
Mobile, Alabama	29.91	759.7	29.95	760.7	73.5	23.1	94	nw.	5	2.2	...	3 ck	hz.	...	...	0.05	1.3	clear	H. U. Jones.
Montgomery, Alabama	29.70	754.4	29.94	760.5	74	23.3	90	s.	3	1.3	...	7 cs	fg.	...	...	0.06	1.5	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.16	740.7	30.14	765.5	38	3.3	82	s.	3	1.3	...	0	0	...	...	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.79	604.3	29.94	760.5	49.0	9.4	100	nw.	35	15.6	...	...	fg.	...	nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.40	746.7	29.97	761.2	67.0	19.4	90	nw.	4	1.8	...	...	10 ks	...	nw.	0.49	12.4	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.91	759.7	66	18.9	100	s.	5	2.2	...	...	10 s	...	s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	65	18.3	100	sw.	2	0.9	...	...	fg.	...	...	0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	77.0	25.0	85	ne.	7	3.1	...	4 ck	0	nw.	...	0	0	fair	M. Herman.
New York, New York	29.75	755.6	29.92	760.0	67	19.4	100	s.	2	0.9	...	...	10s;fg	...	...	0	0	threatening.	H. J. Penrod.
Norfolk, Virginia	29.92	760.0	29.95	760.7	71.8	22.1	100	sw.	4	1.8	...	...	fg.	...	...	0	0	dense fog	Wm. Davis.
North Platte, Nebraska	27.23	691.6	30.11	764.8	47.6	8.7	77	e.	6	2.7	...	0	0	...	...	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.88	758.9	29.92	760.0	53.0	11.7	86	calm	0	0	...	...	10 s	...	...	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.06	738.1	30.23	767.8	48.0	8.9	93	calm	0	0	...	0	0	...	...	0	0	clear	A. Pollak.
Ooglaamie, Alaska	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	P. H. Ray.
Oswego, New York	29.61	752.1	29.93	760.2	54.0	12.2	93	ne.	28	12.5	...	...	10 s	...	ne	0.33	8.4	threatening.	J. G. Linsley
Palestine, Texas	29.50	749.3	30.05	763.3	68.0	20.0	97	ne.	6	2.7	...	...	fg.	...	...	0.03	0.8	dense fog	L. M. Pindell.
Pensacola, Florida	29.93	760.2	29.96	761.0	75.8	24.3	88	nw.	1	0.4	...	6ck;cs	0	nw.	...	0.04	1.0	fair	M. McGauran.
Philadelphia, Pa.	29.81	757.2	29.91	759.7	68.5	20.3	100	w.	4	1.8	...	...	fg.	...	...	0	0	dense fog	T. F. Townsend.
Pike's Peak, Colorado	18.07	459 0	30.05	763.3	30	− 1.1	84	sw.	27	12.1	...	0	2 s	...	...	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.10	739.1	29.90	759.4	68.0	20.0	90	calm	0	0	...	9 cs	0	w.	...	0.03	0.8	cloudy	G. C. Schaeffer.
Poplar River, Montana	...	...	...	...	49	9.4	50	nw.	...	...	1	3 c	0	...	...	0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.32	744.7	29.99	761.7	56.0	13.3	80	n.	20	8.9	...	0	8 s	...	n.	0.15	3.8	cloudy	M. H. Perry
Portland, Maine	29.82	757.4	29.87	758.7	61	16.1	93	s.	4	1.8	...	...	10s;fg	...	s.	0.02	0.5	cloudy	W. W. Eichelberger.
Portland, Oregon	29.90	759.4	29.97	761 2	49.2	9.6	86	calm	0	0	...	0	0	...	...	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.87	758.7	45	7.2	45	sw.	2	0.9	...	0	0	...	...	0	0	clear	N. D. Lane.
Provincetown, Mass.	29.90	759.4	29.93	760.2	62.5	16.9	97	sw.	6	2.7	...	...	fg.	...	...	inap.	inap.	dense fog	C. N. Kitchel.
Punta Rassa, Florida	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. J. Evans.
Red Bluff, California	29.50	749.3	29.85	758.2	61	16.1	72	s.	4	1.8	...	0	hz.	...	...	0	0	clear	J. R. Williams.
Rochester, New York	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E. W. McGann.
Roseburg, Oregon	29.46	748.3	30.01	762.2	45.7	7.6	80	ne.	1	0.4	...	0	sk.	...	...	0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	57.0	13.9	77	se.	3	1.3	...	0	0	...	...	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.49	749.0	30.10	764.5	57.2	14.0	74	ne.	20	8.9	...	0	7k;ks	...	n.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.33	745.0	29.36	745 7	40	4.4	94	n.	14	6.3	...	...	10 n	...	n.	1.04	26.4	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.30	745.7	30.20	767.1	43.5	6.4	96	calm	0	0	...	...	fg.	...	...	0	0	dense fog	P. F Lyons.
St. Vincent, Minnesota	29.21	741.9	30.08	764.0	33	0.6	94	se.	4	1.8	...	0	0	...	...	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.57	649.5	29.82	757.4	62	16.7	38	calm	0	0	...	10 k	0	sw.	...	0	0	cloudy	J. Craig.
San Antonio, Texas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. H. Davis.
San Diego, California	29.80	756.9	29.87	758.7	64.0	17.8	78	ne.	3	1.3	...	10 k	0	nw.	...	0	0	cloudy	F. R. Day.
Sanford, Florida	29.89	759.2	29.94	760.5	72.4	22.4	97	w.	3	1.3	...	3 c	fg.	...	...	0.64	16.3	clear	J. B. Marbury.
Sandusky, Ohio	29.31	744.5	29.98	761.5	60	15.6	87	ne.	26	11.6	...	...	10 n	...	sw.	1.15	29.2	light rain	B. F. Hough.
Sandy Hook, New Jersey	29.89	759.2	29.92	760.0	69.0	20.6	60	s.	6	2.7	...	...	10 k	...	s.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	53.5	11.9	93	sw.	7	3.1	...	0	fg.	...	w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	H. U. Jones.
Savannah, Georgia	29.87	758.7	29.96	761.0	75	23.9	94	se.	2	0.9	...	2 ck	5 s	...	se.	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.24	666.5	29.85	758.2	55	12.8	64	w.	1	0.4	...	0	0	...	...	0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	69.0	20.6	97	w.	1	0.4	...	...	fg.	...	...	0.32	8.1	dense fog	E. N. Meekins.
Sill, Fort, Indian Territory	28.89	733.8	30.11	764.8	62	16.7	93	n	8	3.6	...	0	hz.	...	...	0	0	clear	W. M. Mattingly
Sitka, Alaska	29.32	744 7	29.38	746.2	48.5	9.2	66	e.	12	5.4	...	...	10 ks	...	e.	0.63	16.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.07	763.8	61.8	16.6	78	n.	2	0.9	...	0	0	...	...	0	0	clear	J. B. Campbell.
Smithville North Carolina	29.91	760.2	29.97	761.2	71.5	21.9	95	e.	3	1.3	...	4 cs	fg.	...	...	inap.	inap.	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.95	760.7	43	6.1	83	calm	0	0	...	0	0	...	...	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.43	747.5	30.10	764.5	52	11.1	83	n.	9	4.0	...	0	0	...	...	0.05	1.3	clear	T. B. Jennings.
Starkville, Miss.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C. Dill.
Stockton, Fort, Texas	27.07	687.6	30.03	762.7	66	18.9	90	calm	0	0	...	6 c	0	...	...	0	0	fair	Louis Dorman.
Thomas, Camp, Arizona	...	...	...	...	59.5	15.3	39	se.	...	...	1	0	5 ks	...	...	0	0	fair	R. O. Lord.
Toledo, Ohio	29.30	744.2	29.98	761.5	57	13.9	86	n.	9	4.0	...	...	10 n	...	ne.	0.80	20.3	light rain	A. Buell.
Tucson, Arizona	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. L. Whiteside.
Unalashka, Alaska	29.82	757.4	29.84	757.9	41	5.0	73	sw.	4	1.8	...	6 k	0	sw.	...	0.14	3.6	fair	Samuel Applegate.
Verde, Fort, Arizona	...	...	...	...	54.5	12.5	38	nw.	...	...	1	0	0	...	...	0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.74	755.4	29.99	761.7	73.0	22.8	90	calm	0	0	...	...	fg.	...	...	0.04	1.0	dense fog	James Kenealy.
Visalia, California	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	O. D. Stewart.
Washakie, Fort, Wyoming	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	T. M. Ambler.
Washington, D. C.	29.82	757.4	29.93	760.2	69.8	21.0	91	calm	0	0	...	0	fg.	...	...	0	0	clear	B. M. Pursell.
West Las Animas, Colorado	26.13	663.7	29.95	760.7	52.5	11.4	83	ne.	4	1.8	...	0	0	...	...	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	B. F. Hough.
Wilmington, N. Carolina	29.92	760.0	29.97	761.2	71.0	21.7	87	calm	0	0	...	hz.	0	...	...	0.01	0.3	clear	Samuel A. Haney.
Winnemucca, Nevada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	J. Grover.
Yankton, Dakota	28.90	734.0	30.18	766.0	41.4	5.2	96	n.	2	0.9	...	0	0	...	...	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.59	751.6	29.73	755.1	67.2	19.6	68	calm	0	0	...	0	0	...	...	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	...	...	...	...	80	26.7	...	nw	...	...	1	...	4 k	...	ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.04	559.9	...	...	55.4	13.0	63	n.	4	2	...	...	8s;ks	...	nw.	0	0	...	Joaquin Gomez.
Kingston, Jamaica, W. I.	...	...	29.95	760.7	75.0	23.9	94	n.	1	0.4	...	3 ck;s	7 s	...	...	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	82	se.	...	...	3	5 ck	4 s	e.	...	1.300	33.0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.36	745.7	29.92	760.0	79	20.1	89	s.	...	...	1	...	10 ks	...	s.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	...	...	...	...	74	23.3	90	nw.	...	...	1	1 ck	...	...	...	0	0	...	Earl Flint.
St. Paul, Kodiak Id., Alaska	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. J. Fisher.
York Factory, B. A.	30.15	705.8	30.21	707.3	30.5	2.5	95	sw.	8	3.6	...	1 c	0	sw.	...	0	0	...	Fortescue & W[illegible]

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	30.17	766.3	81	27.2	83	nnw.			1		2	nne.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.01	762.2	80.5	26.9	72	ese.			1		5	ese.						d. clouds.
H. M. S. Flamingo, N. 52° 10′, W. 55° 30′			50	10.0	93	s.			3		4	s.				2	s.	d. clouds.
H. M. S. Griffon, N. 34° 20′, W. 73° 03′	30.01	762.2	80	26.7	78	calm			0		0					1	s.	blue sky.
H. M. S. Iris, off Port Said, Egypt	29.94	760.5	83	28.3	83	nw.			3		0							blue sky.
H. M. S. Tenedos, Sydney, C.B.	29.96	761.0	59	15.0	100	s.			2		1	ssw.						blue sky.
H. M. S. Tyne, N. 35° 56′, W. 8° 45′	30.19	766.8	65	18.3	84	nne.			2		0					sm'h		blue sky.
U. S. Navy Yard, Portsmouth, N.H.*	29.84	757.9	63	17.2	94	ssw.	6.	2.7			10		sw.	0	0			misty.
U. S. S. Alliance, Halifax, N.S.	29.98	761.5	60	15.6	88	sse.			1		2			0	0	sm'h		clear.
U. S. S. Galena, N. 22° 54′, W. 56° 45′	30.16	766.1	82	27.8	79	ene.			4		5		ene.			mod.	ene.	fair.
U. S. S. Jamestown, Funchal, Madeira Islands	30.26	768.6	77	25.0	86	sw.			2		5					sm'h		fair.
U. S. S. Kearsarge, N. 40° 30′, W. 15° 43′	30.13	765.3	72	22.2	85	sw.			1		8					mod.		cloudy.
U. S. S. Lancaster, Port Mahon, Spain	30.16	766.1	75	23.9	95	ne.			2		2		calm			sm'h		fair.
U. S. S. Portsmouth, N. 41° 41′, W. 69° 20′	29.97	761.2	61	16.1	100	ssw.			2		10		w.			sm'h		foggy.
U. S. S. Powhatan, St. Johns N.F.	30.05	763.3	53	11.7	93	calm			0		8							cloudy.
U. S. S. Quinnebaug, Port Mahon, Minorca, Spain	30.28?	769.1?	73	22.8	72	nne.			2		2		e.			sm'h		fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.00	762.0	68	20.0	90	ssw.			2		10		sw.	light	light	sm'h	sw.	overcast.
U. S. S. Swatara, Picton, N.S.	29.95	760.7	60	15.6	82	se.			2		1		se.	0	0	sm'h		clear
U. S. S. Vandalia, Halifax, N.S.	29.97	761.2	59	15.0	88	s.			1		0							clear.
U. S. S. Yantic, St. Johns, N.F.	30.06	763.5	53	11.7	93	se.			1–2		2							clear.
S. S. British Princess, N 50° 28′, W. 23° 00′†	29.39	746.5	60	15.6		sw.			6		7		wsw.	0	0	high	sw.	cloudy.
S. S. Lord Gough, N. 42° 56′, W. 61° 02′	29.97	761.2	56	13.3		se.			3		2		sse.	0	0	sm'h		clear.
S. S. Ohio, N. 48° 55′ W. 38° 54′†	29.69	754.1	60	15.6	82	nnw.			5		7		nw.	5 h'r	5 h'r			cloudy.
S. S. Grecian, Glasgow, Scotland	30.18	766.6	64	17.8	89	nw.			1		10		ssw.	0	0			cloudy.
S. S. Polynesian, Crane Island, St. Lawrence river	29.81	757.2	57	13.9		wnw.			1		10			5 h'r	5 h'r	sm'h		cloudy.
S. S. Prussian, N. 54° 18′, W. 24° 55′	29.47	748.5	56	13.3		ese.			7		10		ese.	6 h'r	6 h'r	h'vy	ese.	drizzling.
S. S. Scandinavian, Glasgow, Scotland	30.15	765.8	57	13.9		sse.			0–1									misty.
S. S. Sardinian, N. 50° 14′ W. 59° 00′	29.85	758.2	54	12.2		s.			4		1		se.	0	0	sm'h		clear.
S. S. Alvo, off Savanilla, U. S. C.			80	26.7		se.			2		8		se.	0	0	long	nne.	cloudy.
S. S. Andes, N. 33° 30′, W. 70° 13′			74	23.3		ssw.			2		5?		sw.	0	0	sm'h		cloudy?
S. S. Avila, N. 16° 52′, W. 71° 05′ *†	30.00	762.0	82	27.8		ne.			1		1		ne.	rain	rain	r'gh	e.	
S. S. Australia, N. 42° 06′, W. 51° 19′*†	30.06	763.5	48?	8.9?		nne.			3		7		nne.	0	0		wnw.	fine.
S. S. Devonia, N. 40° 24′. W. 70° 10′ *†	30.04	763.0	66	18.9		sw.			2		8?		sw.			sm'h		clear.
S. S. Dorian, Leghorn, Italy	30.08	764.0																
S. S. Furnessia N. 51° 14′, W. 13° 25′†	29.95	760.7	64	17.8	89	sse.			6		8		se.	0	0	mod.	se.	
S. S. Cephalonia, N. 47° 23′, W. 36° 46′	29.59	751.6	60	15.6	94	nw.			6		10		nw.	20 h'r	20 h'r	r'gh	nw.	heavy rain.
S. S. Bothnia, N. 44° 17′, W 44° 01′	30.00	762 c	64	17.8	89	n.			4		2		n.	0	0	mod.	n.	fair
S. S. Scythia, N. 51° 15′, W. 15° 16′	29.87	758.7	64	17.8	89	s.			3		9		ssw.	2 h'r	2 h'r	sli't	ssw.	hazy.
S. S. Samaria, N. 42° 10′, W. 59° 09′*	30.05	763.3	68	20.0		e.			4		2		e.	0	0	mod.	ese.	clear.
S. S. France, N. 41° 45′, W. 64° 23′†	30.01	762.2	66.2	19		se.			2		0			0	0	sm'h	se.	clear.
S. S. Arizona, N. 51° 10′, W. 26° 26′	29.16	740.7	58	14.4		sw.			6		8		w.	4 h'r	4 h'r	con.		showery.
S. S. Wyoming, N. 42° 07′ W. 64° 00′	30.00	762.0	59	15.0		sw.			1		0			0	0	sm'h		clear.
S. S. Bohemia, N. 40° 48′, W. 64° 53′†	30.01	762.2				e.			3		5		ene.	0	0	sm'h	ne.	fair.
S. S. Frisia, N. 41° 28′ W. 65° 10′	30.02	762.5				w.			1		4		sw.	0	0	sm'h		foggy.
S. S. Gellert, N. 43° 46′, W. 49° 52′	30.13	765.3	53	11.7	?	s.			1		10		*s.	0	0	sm'h		covered.
S. S. Rugia, N. 49° 51′, W. 20° 58′	29.64	752.8	62	16.7		s.			6		5		sw.	0	0	long	w.	fair.
S. S. Westphalia, New York, N.Y.	29.93	760.2	70	21.1	95	sw.			2		10			0	0			overcast.
S. S. Rhaetia, N. 40° 35′ W. 71° 50′*	29.88	758.9	65	18.3		sse.			3		10		sw.	0	0	sm'h		foggy.
S. S. Nessmore, N. 50° 44′, W. 28° 04′*	29.07	738.4	58	14.4	100	w.			7		10		sw.	8 h'r	8 h'r	h'vy	sse.	misty.
S. S. Archimedes, N. 40° 30′, W. 58° 46′	30.01	762.2				e.			4		4		e.	0	0	light	e.	fine.
S. S. Hevelius, N. 10° 32′, W. 26° 56′*†	29.97	761.2	84	28.9		wsw.			6		4		se.	6 h'r	6h'r	sm'h		clear.
S. S. Teniers, N. 27° 05′, W. 19° 53′	30.23	767.8	78.2	25.7	76	nne.			2	ck	3 k	sse.	nnw.	0	0	4	wsw.	blue sky.
S. S. Sirius, N. 39° 40′. W. 9° 44′	30.19	766.8				sse.			3		2		sse.	0	0	sli't	var	clear.
S. S. Rio Grande, N. 26° 00′. W. 86° 40′†	29.95	760.7	85	29.4		se.			1		1		s.	½ h'r	½ h'r	sm'h		d. clouds.
S. S. Chalmette, N. 36° 12′ W. 74° 50′†	29.99	761.7	73	22.8		se.			1		6			1 h'r	1 h'r			fair.
S. S. New York, N. 26° 15′ W. 85° 30′*†	30.00	762.0	83	28.3		ene.			3		2		se.	0	0	sli't	se.	clear.
S. S. Alleghany, Baltimore, Md †	29.95	760.7	70	21.1		calm			0		0			0	0			foggy.
S. S. Archimede, Messina, Sicily†	30.12	765.0	82	27.8		s.			5		1		s.	0	0			clear.
S. S. City of Merida, N. 27° 58′, W. 80° 16′*†	29.96	761.0	82	27.8		nne.			1		5		s.	0	0	mod.	e.	fine.
S. S. City of Washington, N. 18° 40′, W. 92° 45′ *†	29.95	760.7	78	25.6		ne.			2		5		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 25° 15′, W. 76° 00′*.	29.92	760.0	83	28.3		nw.			2		2		ese.	0	0	h'vy	ese.	clear.
S. S. Denmark, N. 42° 10′, W. 57° 09′†	30.10	764.5	62	16.7		se.			3		2			0	0	sm'h		clear.
S. S. England, N. 41° 08′, W. 63° 35′	30.02	762.5				ene.			2		fg		ese.	0	0	sm'h		foggy.
S. S. Greece, N. 48° 32′, W. 27° 38′	29.38	746.2	61	16.1	88	w.			7		6		w.	6 h'r	5 h'r	h'vy	w.	showery.
S. S. The Queen, N. 48° 11′, W. 35° 32′	29.50	749.3	56	13.3		nw.			6		8		nw.	24 h'r	24 h'r	high	nw.	showery.
S. S. America, N. 49° 40′. W. 9° —*.	30.04	763.0	62.0	16.7	83	se.			5		10		sse.	4 h'r	4 h'r	mod	se.	covered.
S. S. Donau, N. 46° 23′ W. 42° 35′	29.99	761.7				nnw.			5		2		n.	0	0	mod.	var.	clear.
S. S. Elbe, N. 49° 05′, W. 34° 49′	29.47	748.4	58.1	14.5	94	nw.			6–7		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. Habsburg, N. 49° 52′, W. 18° 42′	29.76	755.9				ssw.			5		2		sw.	2 h'r	2 h'r	long	ssw.	hazy.
S. S. Hermann, N. 50° 17′, W. 25° 03′	29.30	744.2	59.9	15.5	84	sw.			7		10		sw.	5 h'r	5 h'r	high	var.	covered.
S. S. Main, N. 46° 53′, W. 47° 34′	30.04	763.0	48.2	9.0		calm			0		5			4 h'r	4 h'r	mod	nw.	fair.
S. S. Ohio, N. 41° 12′, W. 60° 08′	30.00	762.0				e.			3		4		e.	0	0	sm'h		fair.
S. S. Weser, N. 40° 15′ W. 43° 30′	30.10	764.5	68.0	20.0		nw.			3		2		nw.	0	0	mod.	nw.	clear.
S. S. City of Augusta, N. 33° 20′, W. 78° 06′†	30.02	762.5				calm			0		6			0	0	sm'h		fair
S. S. Muriel, St. Thomas, W.I.	29.95	760.7	84	28.9		e.			2		10			h'vy	h'vy	sm'h		raining.
S. S. Orinoco, New York, N.Y*†	29.86	758.4	72	22.2		s.			1		10		ssw.	0	0	light	s.	hazy
S. S. Rhynland, N. 44° 24′ W. 55° 24′	30.06	763.5	58	14.4	76	w.			3		3		w.	0	0	sm'h		clear.
S. S. Pennland, N. 49° 31′, W. 10° 02′			62	16.7	94	sse.			6		1?		sse.	1 h'r	1 h'r	mod.	sw.	overcast.†
S. S. Switzerland, N. 50° 58′. W. 23° 26′*†	29.29	744.0				s.			6		8		s.	8 h'r	8 h'r	h'vy	e.	cloudy.
S. S. Vaderland, Antwerp, Belgium			73	22.8		calm			0		1		wsw.	0	0			clear.
S. S. Waesland, N. 41° 23′, W. 65° 45′	30.03	762.7	61	16.1		calm			0		5		se.	0	0	sm'h		misty.
S. S. Zeeland, N. 41° 29′. W. 64° 49′			58	14.4		ne			2		1		ne.	0	0	sm'h		clear.
S. S. P. Caland, Jersey City, N.J.	29.94	760.5	70.2	21.2	94	se.			1		10							cloudy.
S. S. W. A. Scholten, Rotterdam, Holland	30.26	768.6	55.4	13.0	100	e.			1		10		e.	0	0			
S. S. Caracas, La Guayra, Venezuela*†	30.00	762.0	83	28.3	83	ne.			2		2			0	0	light	ne.	hazy.
S. S. State of Georgia, N. 55° 05′, W. 17° 56′	29.68	753.9	58	14.4		se.			6–7		10		s.	light	light	r'gh	sw.	raining.
S. S. State of Indiana, N. 45° 18′ W. 54° 00′*†	30.10	764.5	58	14.4		se.			1		2			0	0	sm'h		foggy.
S. S. State of Nevada, Glasgow, Scotland †	30.19	766.8	59	15.0		w.			3		10		ssw.	2 h'r	2 h'r			hazy.
S. S. Thingvalla, Copenhagen, Denmark†	30.19	766.8	61.7	16.5		ese.			2		2		ese.	0	0			clear.
S. S. Romano, off Brighton, Eng.			70	21.1		var.			1		9							
S. S. Salerno, N. 42° 47′, W. 56° 01′ *†	30.15	765.8	68	20.0		se.			3		2		se.	0	0	sm'h	se.	clear.
S. S. Dominion, N. 56° 18′, W 30° 22′*†.	29.75	755.6	54	12.2		ne.			5		10		ne.			r'gh	ne	cloudy.
S. S. Oregon, N. 49° 07′. W. 66° 44′	29.73	755.1	56	13.3		wsw.			6		10		wsw.			short	w.	rainy.
S. S. Texas, N. 59° 46′. W. 36° 22′*†	29.79	756.7	51	10.6	93	ne.			6		10			7 h'r	7 h'r	mod	e.	hazy.
S. S. Daniel Steinmann, Antwerp, Belgium*†	30.24	768.1				calm			0		0			0	0			hazy.
S. S. Saxon, N. 39° 20′ W. 74° 18′ †	29.97	761.2				ssw.			2		10			0	0			dense fog.
S. S. Adriatic, N. 42° 50′, W. 46° 48′ *†	30.14	765.5	66	18.9		ene.			4				ene.	0	0	mod.	e.	clear.
S. S. Celtic, Liverpool, Eng†	30.22	767.6	65	18.3	94	w.			2		5		w.	0	0	sm'h		fair.
S. S. Republic, N. 46° 06′, W. 48° 22′ *†	30.04	763.0	54	12.2	93	calm			0		2		nw.	5 h'r	5 h'r	sm'h		d. clouds.
S. S. Iowa, N. 51° 45′, W. 15° 09′	29.86	758.4	60	15.6		ssw.			5		6		ssw.	2 h'r	2 h'r	r'gh	var.	hazy.
S. S. Amsterdam, N. 46° 00′, W. 46° 48′	29.92?	760.0?	59.0	15		ne.			2								w.	hazy
S. S. Algiers, N. 24° 33′, W. 81° 13′ *†	30.02	762.5				ne.			1								ene.	squally.
S. S. City of Alexandria, Progresso Roads, C.A *†	29.88	758.9	79	26.1		se.			1							small	ne.	d. clouds.
Bk. Arda, N. 51° 22′, W. 7° 50′†	30.06	763.5				var.			4		1		s.	0	0	light	s.	hazy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No 1—North Atlantic.—Continued.																		
Bk. Alpheus Marshall, N. 34° 50′, W 51° 00′*†	29.90	759.4	80	26.7	91	w.			4		3		w.	light	light	mod.	w.	fair.
Bk. Ariadne, N. 40° 13′, W. 72° 04′			69	20.6	95	sse.			5		10		sse.	0	0	sm'h	s.	foggy.
Schr. Arthur Burton, Boston, Mass†	29.93	760.2				sw.			1		10		sw.	0	0	sm'h		foggy.
Schr. Abbie H. Gheen, Gay Head, Mass.†	30.07?	763.8?	66	18.9		ssw.			2									hazy.
S. S. Antonio Lopez, N. 37° 16′, W. 34° 47′	30.06	763.5	72.5	22.5	76	nw.			1		1			0	0	long	nnw.	clear.
Bk. Aquidneck, N. 37° 03′, W. 75° 39*†	30.00	762.0	78	25.6		sw.			1				s.			light	ese.	clear.
Bgt. Achsah, N. 34° 27′, W. 63° 10′†	30.03	762.7	83	28.3		wnw.			5		4		wnw.	0	0	mod.	wnw.	fair.
Bk. Aureola, N. 7° 12′, W. 24° 31′ †	29.85?	758.2?	90?	32.2?		s.			6		5		s.	3 h'r	3 h'r	h'vy	sse.	fair.
Bk. Adelaide, N. 19° 35′, W. 43° 47′*†	30.11	764.8				e.			3		1		e.	1 h'r	1 h'r	light	se.	hazy.
Bg. Belle of the Bay, N. 25° 52′, W. 77° 11′†	29.91	759.7				n.			1		2		sw.	0	0	sm'h	e.	clear.
S. S. Cannonbury, Fijardo Porto Rico, W. I*†	29.98	761.5				se.			1		7		e.	4 h'r	4 h'r	sm'h		showery.
Bk. Celestina, Genoa, Italy*†	30.20?	767.1?				ssw.			2		4			0	0			clear
Bk. Ceylon, N. 38° 45′, W. 60° 08′†	29.98	761.5	80	26.7	82	se.			1		9		sse.	light	light	long	se.	cloudy.
Schr. C. R. Flint, N. 32° 45′, W. 60° 42′ †	30.08	764.0	78	25.6		wnw.			1		3		w.	1 h'r	1 h'r	sm'h	nne.	clear.
Bk. Cato, N. 37° 15′, W. 1° 00′†	30.22	767.6				e			2		1		sw.					clear.
Bk. Don Justo, N. 56° 00′, W. 24° 40′						ese.			4		10		ese.	4 h'r	4 h'r	h'vy	var.	
Bk. Childwall, N. 25° 38′, W. 22° 56′*	30.04	763.0	76	24.4	91	ese.			3		7		se.	0	0	sm'h		fair.
S. S. D. J. Foley, N. 28° 11′, W. 74° 44′*†	29.95	760.7	81	27.2	87	nnw.			1		6		nw.	0	0	long	ene.	fair.
Bkt. David A. Preston, Windsor, N. S						sse.			2		2			0	0			
Bk. Diamant, N. 39° 58′, W. 71° 05′	30.01	762.2	70.2	21.2	92	ssw.			4		7 k		sw.	3 h'r	3 h'r	1	sw.	cloudy.
S. Dora, N. 42° 30′, W. 55° 52′*†	30.06	763.5	62.6	17.0		se.			4					0	0	sm'h	e.	blue sky.
S. David Stewart, N. 21° 17′ W. 59° 47′			87	30.6		ene.			4		3		ene.	0	0	mod.	e.	
S. E. J. Spicer, Antwerp, Belgium	30.11	764.8	70	21.1	80	ese.			1		0			0	0			clear.
Schr. Edith R. Seward, Brunswick, Ga			80	26.7		calm			0		5		calm	0	0			fair.
Bk. E. D. Bigelow, Galveston, Texas†	29.99	761.7	82	27.8		n.			3		2		n.	0	0			fair.
Bk. Edmund Phinney, N. 30° 40′, W. 69° 10′†	30.06	763.5	79	26.1		s.			1		10			8 h'r	8 h'r	mod.	se.	cloudy
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass †	29.97	761.2	63	17.2		sw.			3		10		s.	0	0			cloudy.
S. Gatherer, N. 11° 05′, W. 30° 44′*	29.94	760.5	82	27.8	75	sw.			3		3		sw.	0	0	chop	se;n.	clear.
Bg. George, Arroyo, Porto Rico, W. I*†	30.01	762.2	79	26.1		ene.			1		10		ene.	rain	rain			squally.
Bk. Galeon, N. 37° 31′, W. 15° 37′†	30.10	764.5	74	23.3		ssw.			4		4		ssw.	0	0	mod.	sw.	misty.
Bk. Grey Eagle, N. 17° 28′, W 42° 56′						calm			0		1			½h'r	½h'r	light	se.	clear
S. Hedwig, N. 35° 45′, W. 6° 03′	30.22	767.6	72.1	22.3	91	ene.			5		3		var.	0	0	2	ene.	fine.
Schr. Isabel Alberto, N. 28° 07′, W. 83° 06′ †	29.93	760.2				ese.			1		3		e.	light	light			fair.
Bk. Johanne, N. 59° 07′, W. 10° 45′*†	30.15	765.8	55	12.8		sse.			1		8		se.	4 h'r	4 h'r	mod.	se.	foggy.
Schr. John L. Thomas, N 28° 10′, W. 79° 29′ *†	29.94	760.5	85	29.4	79	n.			3		2		ne.	0	0	mod.	ne.	clear.
Schr. Jennie N. Huddell, Philadelphia, Pa †	29.99	761.7	74	23.3	95	sw.			2		fg.			0	0			foggy.
Bg. Josefa, N. 51° 06′, W. 12° 50′†	29.93	760.2				s.			6		8		s.	2 h'r	2 h'r	r'gh	ssw.	cloudy.
Bkt. Kryolith, N. 57° 08′, W. 50° 58′ *†	29.87	758.7				ese.			5		10		s.			mod.	s.	cloudy.
Bk. Lady Hincks, N. 31° 28′, W. 28° 40′*†	30.10	764.5							4					rain	rain			cloudy.
Bg. L. & W. Armstrong, N. 15° 33′, W. 61° 48′ *†	29.94	760.5				ene.			3		3		ene.	2 h'r	2 h'r	sm'h	e.	clear.
S. S. Madrid, Kertch, Russia†	30.16	766.1	70	21.1	70	ne.			6		1		ne.	0	0			fair.
Bk. Orpheus, N. 52° 42′, W. 36° 37′	29.35	745.5	53	11.7		nw.			4		6 k		nw.	0	0	sm'h		fair.
Bg. Rising Sun, N. 35° 10′, W. 73° 32′†	30.02	762.5	82	27.8		w.			1		1		w.	0	0	mod.	s.	clear.
Bk. Rosalie, N. 50° 59′, W. 8° 49′						se.			4		10			0	0	mod.	s.	cloudy.
Bgt. Sunlight, N. 11° 36′ W. 58° 32′ *†	29.98	761.5				s.			3		6		e.	½h'r	½h'r	mod.	ne.	fair.
Bg. Teneriffe, N. 44° 02′, W. 62° 30′ *	30.03	762.7				ssw.			3		0					sm'h		fine.
Bg. Tuck Sing, N. 24° 56′, W. 80° 04′ *†	29.92	760.0				nne.			1		0			0	0	sm'h		fine.
Schr. Viola Reppard, Brunswick, Ga†	29.96	761.0	79	26.1		w.			1		8		w.	0	0			cloudy.
Bgt. Willie, N. 1° 56′, W. 26° 35′ *†	30.03?	762.7?	83	28.3		sse.			4		3		sse.	0	0	mod.	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 15° 52′, W. 38° 04′	30.08	764.0	75.5	24.2	77	ene.			2		2	ene.				2	ene.	blue sky.
H. M. S. Opal, S. 15° 04′, E. 0° 08′	30.16	766.1	64	17.8	94	se.			4		6	se.				3	sse.	d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.33	770.4	55.2	12.9	97	n.			3		6	calm				3	n.	d clouds.
H. P. M S. Rainha de Portugal, Landana, L. Guinea	30.01	762.3	74.8	23.8	84	ssw.			4		8	ssw.		3 h'r	3 h'r	2		gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.22	767.0	59	15.0	82	ne.	26	11.6			8			0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay *	30.21	767 3	59	15.0	82	nne.			4		5		ne.			sm'h		fair.
Bk. E. L. Pettingill, S. 6° 47′, W. 32° 45′*†	30.20	767.1	76	24.4		se.			6		7		se.	light	light	mod	se.	
Bk. Great Surgeon, S. 35° 25′. W. 11° 30′*†	30.42	772.7	58	14.4		sw.			6		4		sw.	1 h'r	1 h'r	long	sw.	fair.
Bk. Godeffroy, S. 53° 19′, W. 63° 49′	29.37	746.0	44.4	6.9	91	n.			5–6		0			0	0	mod.	n.	clear
Schr. Jas. Slater, Para, Brazil †	29.99	701.7	82	27.8		ene.			2		0			0	0			clear.
Bkt. Louise Adelaide, S. 32° 30′, W. 49° 40′ †	30.37	771.4	64	17.8		ene.			4		7		e.	0	0	chop	e.	fair.
Bk. Mohican, N. 4° 31′, W. 32° 40′	29.97	761.2	81	27.2		se.			6		8		se.	2 h'r	2 h'r	short	s.	fair.
S. S. Olbers, Rio de Janeiro, Brazil	30.24	768.1	71	21.7	97	s.			3		8		s.	0	0	sm'h		fair.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.07	763.8	63	17.2		wnw.			1		6	wnw.						d. clouds.
Bg. John Wesley, S. 19° 15′, W. 34° 22′*†	30.16	766.1	70	24.4		ene.			4		3		ne.	½h'r	½h'r	cross	var.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Olga Bay, Siberia	29.83	757.7	59	15.0	88	calm			0		10	ne.				sm'h		raining.
H. M. S. Flying Fish, N. 37° 20′, E. 126° 16′	29.80	756.9	70	21.1	85	nne.			5		4					3	nne.	squally.
H. M. S. Magpie, N. 5° 50′ E. 118° 07′	29.89	759.2	83.1	28.4		ese.			1		9	nw.						d. clouds
H. M. S. Mutine, N. 6° 38′, W. 99° 10′	29.87	758.7	78	25.6	79	s.			4		10					3	s.	overcast.
H. P. M. S. Tamega, Canton, China	29.88	759.0	85.1	29.5	82	calm			0		9			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.03?	762.7?	75	23.9	90	calm			0		2			0	0			clear.
U. S. S. Essex, Roze Island, Corea	29.83	757.7	69	20.6	100	n.			3		2					sm'h	n.	clear.
U. S. S. Monocacy, Roze Id, Corea	29.82	757.4	72	22.2	76	n.			2		2		calm			sm h		fair.
U. S. S. Palos, Hong Kong, China	30.00?	762.0?	80	20.7	87	calm			0		7							fair.
U. S. S. Pensacola, N. 20° 01′, E 173° 01′*	29.88	758.9	83	28.3	67	sse.			3		5		se.	light	light	light	se.	fair.
U. S. S. Richmond, Yokohama, Japan	29.94	760.5	77	25.0	91	ese.			1		2		ese.	0	0			clear
U. S. S. Coptic, N. 40° 55′, W. 158° 13′	30.03	762.7	54.0	12.2	80	w.			3		4		nw.	sh'rs	sh'rs	mod	nw.	fine.
S. S. Columbia, N. 42° 58′, W. 124° 46′†	29.99	761.7	56	13.3	87	s.			2		0					long	wnw.	clear.
S. S. Oregon, Columbia River, Oregon†	30.01	762.2	55	12.8	93	calm			0									foggy.
S. S. Ancon, N. 33° 46′, W. 118° 35′†	29.88	758.9	63	17.2	89	ese.			2		10					light	wsw.	foggy.
S. S. State of California, San Francisco, Cal.†	29.95	760.7	50	10.0	100	sw.			1		0							clear.
S. S. Queen of the Pacific, N. 40° 32′, W. 124° 22′†	30.00	762.0	53	11.7	100	se.			1		0			0	0	long	sw.	clear.
S. S. Victoria, off Humboldt Bay, Cal.†	29.94	760.5	54	12.2	74	ese.			3		0					high	nw.	foggy.
S. S. City of Pekin, N. 46° 30′, E. 170° 20′ †	30.31	769.9	53	11.7	80	nnw.			2		2		n.	0	0	sm'h		clear.
S. S. City of Tokio, Hong Kong, China†	29.94	760.5	82	27.8	87	ese.			1		2		ese.	0	0			clear.
S. S. City of Rio de Janeiro, N. 27° 30′, E. 125° 55′†	29.95	760.7	81	27.2	78	ene.			2		2		ene.	0	0	mod.	ne.	clear.
S. S. Colima, N. 29° 15′, W. 116° 14†	29.88	758.9	73	22.8	39	nw.			5		10		nw.	0	0	mod.	nw.	overcast
S. S. Granada, N. 11° 30′, W. 87° 29′†	29.86	758.4	80	26.7	87	calm			0		0			1 h'r	1 h'r	light	s.	clear.
S. S. San Blas, N. 31° 50′, W. 120° 00′†	30.01	762.2	64	17.8		nw.			5		10		nw.	0	0	mod.	nw.	overcast.
S. S. San Juan, N. 14° 28′, W. 92° 30′			83	28.3		wnw.			4		10 ks		nnw.	2 h'r	2 h'r	gr'd	ssw.	overcast.
S. Armenia, N. 12° 25′, W. 119° 00′*	29.82	757.4	81	27.2	87	sw.			4		10			4 h'r	4 h'r	con.	var.	raining.
S. Storm King N. 32° 16′, W. 124° 08′*†	30.06	763.5	65	18.3		nnw.			5		8		nnw.	0	0	sm'h	nnw.	fine.
S. Saint David, N. 43° 43′, W. 147° 15′*†	30.24	768.1	63	17.2	83	w.			3		9		var.	2 h'r	2 h'r	r'gh	wnw.	showery.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.95	761.0	81.3	27.4	89	e			4		7					sm'h		showery.
U. S. S. Hartford, S. 0° 51′, W. 81° 19′*	29.93	760.2	70	21.1	95	ssw.			4		10		s.	0	0	sm'h	s.	cloudy.
U. S. S. Iroquois, Callao, Peru	30.02	762.5	60	15.6	88	calm			0		10							cloudy.
U. S. S. Lackawanna, Arica, Peru *	29.93	760.2	60	15.6	82	s.			1		10							cloudy.
U. S. S. Onward, Callao, Peru *†	30.12	765.0	59	15.0	94	calm			0		10							misty.
U. S. S. Wachusetts, Callao, Peru*†	30.16	766.1	58	14.4	100	s.			1		10		calm					overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. City of Sydney, Sydney. N S. W*†	30.31	769.9	54	12.2	74	w	.....	.....	1	8 c	0	w.	.....	.....	.....	.....	.....	cloudy.
S. S. Zealandia, S. 12° 19′, W. 170° 01′	29.96	761.0	82	27.8	91	nnw.	.....	.....	3	.....	4	.....	nw.	.....	.....	sm'h	.....	
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.04	763.0	66	18.9	.....	se.	.....	.....	1	.....	.....	.....	.....	0	0	mod	se.	dense fog.
S. David Crocket, S 43° 04′, W. 105° 23′*	29.84	757.9	47	8.3	81	ssw.	.....	.....	5	.....	8	.....	ssw.	3 h'r	3 h'r	h'vy	ssw.	gloomy.
S. Sovereign of the Seas, S. 32° 11′, W. 87° 45′*†	29.80	756.9	57	13.9	80	w.	.....	.....	7	.....	4	.....	wnw.	4 h'r	4 h'r	h'vy	w.	squally.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 18° 44′, E. 49° 28′	30.08	764.0	.....	.....	.....	sse.	.....	.....	1	.....	5	sse.	.....	.....	.....	1	sse.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.01	762.2	81	27.2	59	s.	.....	.....	3	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	78	25.6	91	w.	.....	.....	2	.....	2	.....	.....	.....	.....	1	wsw.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.91	759.7	95.5	35.3	53	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	squally.
U. S. S. Iuniata, Batavia, Java	29.93	760.2	81	27.2	96	nne.	.....	.....	2	.....	8	.....	ne.	h'vy	h'vy	sm'h	.....	fair.
S. S. Galatia, N. 8° 18′ E. 71° 56′†	29.90	759.4	83	28.3	75	wnw.	.....	.....	3	.....	2	.....	nw.	6 h'r	6 h'r	mod.	wnw.	fine.
S. S. Benledi, N. 8° —′, E. 72° —′*	29.91	759.7	84.5	29.2	75	wnw.	.....	.....	3	.....	3	.....	wnw.	0	0	long	se.	fine.
Bk. Pilgrim, S. 30° 13′, E. 35° 43′*†	30.30	769.6	.....	.....	.....	ne.	.....	.....	4	.....	1	.....	ne.	0	0	mod.	ne.	fine.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 18, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.16	766.0	74.8	23.8	71	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Roziere.
Algiers	.....	.....	30.18	766.6	74.8	23.8	72	nne.	.....	.....	3	.....	0	.....	.....	0	0	clear	Thève.
La Galle	.....	.....	30.21	767.3	71.2	21.8	87	n.	.....	.....	2	.....	4	.....	.....	0	0	cloudy	Fonfrède.
Tunis	.....	.....	30.14	765.6	78.4	25.8	66	nw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Delord.
Saida	.....	.....	30.22	767.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pères.
Tebessa	.....	.....	30.15	765.9	73.4	23.0	59	sw.	.....	.....	1	.....	0	.....	.....	0.354	9.0	clear	St. Martin.
Geriville	.....	.....	.....	.....	84.6	29.2	10	nw.	.....	.....	4	.....	2	.....	.....	0	0	fair	Forfert.
Laghouat	.....	.....	30.16	766.0	86.7	30.4	37	ssw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.05	763.2	86.4	30.2	17	w.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Gouzon.
Australian.																			
Adelaide, South Australia	.....	.....	30.26	768.6	49.0	9.4	85	sw.	7	3.1	.....	.....	3 k	.....	.....	0.039	1.0	fine	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.95	760.7	30.04	763.0	61.0	16.1	60	ne.	6	2.7	.....	.....	9	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.52	749.7	30.06	763.4	66.6	19.2	61	ne.	.....	.....	3	.....	10	.....	.....	0.024	0.6	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.33	744.9	30.08	763.9	69.8	21.0	58	sw.	3.8	1.7	.....	.....	8	.....	.....	0.008	0.2	.....	Dr. Wierzbiski
Eperies	29.20	741.6	30.05	763.3	68.0	20.0	78	calm	.....	.....	0	7 cs	.....	.....	.....	0.126	3.2	.....	Julius Mikolik.
Gratz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Andreas Rospini.
Hermannstadt	28.71	729.2	30.10	764.5	72.3	22.4	35	s.	.....	.....	5	.....	2	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.78	731.1	30.11	764.7	62.1	16.7	91	wsw.	.....	.....	2	.....	9	.....	.....	0.681	17.3	raining	The Staff.
Lemberg	29.15	710.3	30.10	764.6	69.8	21.0	44	se.	.....	.....	3	.....	1	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.87	758.8	29.98	761.5	74.7	23.7	62	e.	.....	.....	5	.....	6	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.61	752.2	30.06	763.4	81.0	27.2	79	s.	.....	.....	4	.....	1	.....	.....	0	0	.....	Joseph Midlinszky, S. J
Szegedin	29.78	756.5	30.06	763.4	74.1	23.4	40	s.	.....	.....	2	.....	4	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.93	760.3	30.03	762.8	74.7	23.7	48	n.	.....	.....	3	.....	4	.....	.....	0	0	.....	Royal Academy.
Vienna	29.41	747.1	30.11	764.9	66.4	19.1	69	ese.	.....	.....	2	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.16	766.1	30.25	768.3	53.0	11.7	97	e.	4	1.8	.....	.....	10	.....	.....	0.010	0.3	misty	W. Boswell.
Armagh, Observatory	29.93	760.2	30.16	766.1	62.0	16.7	80	ene.	4	1.8	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Gall.
Bidston, Liverpool Obs'y	.....	.....	30.17	766.3	62.9	17.2	83	w.	6	2.7	.....	.....	8	.....	.....	.....	.....	misty	John Hartnup.
Bolton, Sharples	29.63	752.6	30.10	766.1	68.3	20.2	74	sse.	3	1.3	.....	.....	5	.....	.....	.....	.....	misty	Thomas Mackereth.
Bradford, Yorkshire	29.78	756.4	30.18	766.6	62.6	17.0	84	ne.	.....	.....	1	.....	10	.....	.....	0	0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	87.0	30.6	62	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	30.08	764.0	30.19	766.8	75.4	24.1	54	se.	.....	.....	0.6	.....	1	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	30.02	762.5	30.19	766.8	72.4	22.4	61	s.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.95	760.7	30.17	766.3	59.8	15.4	79	ese.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	93.2	34.0	23	n.	.....	.....	1	.....	.....	.....	.....	.....	.....	blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.63	752.6	29.86	758.4	88.0	31.1	80	n.	.....	.....	1	.....	3	.....	.....	.....	.....	drizzling	J. W. Smith.
Galway, Queen's College	30.03	762.7	30.06	763.5	63	17.2	83	se.	.....	.....	2	.....	6	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	73.5	23.1	98	e.	.....	.....	3	.....	8	.....	.....	.....	.....	gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.99	761.7	30.19	766.8	61.2	16.2	77	ne.	.....	.....	3	.....	9	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.02	762.5	30.18	766.6	73.4	23.0	61	ese.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.86	758.4	30.16	766.1	67.0	19.4	79	e.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.14	765.5	30.18	766.6	70.3	21.3	64	se.	9	4.0	.....	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.92	760.0	30.16	766.1	72.0	22.2	60	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	78.0	25.6	60	w.	.....	.....	2	.....	3	.....	.....	0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.86	758.4	29.91	759.7	84.5	29.2	71	e.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	71.0	21.7	70	se.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.09	764.3	30.17	766.3	61.0	16.1	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	30.15	765.8	30.25	768.3	54	12.2	93	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	foggy	Rev. C. Clouston, L.L.D.
Scutari Cemetery, Turkey	29.90	761.0	30.02	762.5	79.0	26.4	44	ne.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.90	759.4	30.18	766.6	76.8	24.9	68	calm	.....	.....	0	.....	1	.....	.....	0	0	blue sky	W. F. Cooper.
Stilloth Rectory	30.14	765.5	30.16	766.1	65.2	18.4	80	ne.	.....	.....	1	.....	6	.....	.....	0.026	0.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.18	766.6	65.7	18.7	79	n.	3	1.3	.....	.....	10	.....	.....	.....	.....	misty	W. C. Carlisle.
Strathfield Turgiss	.....	.....	.....	.....	71.7	22.1	71	se.	.....	.....	0.5	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.11	764.8	30.20	767.1	68	20.0	74	s.	.....	.....	4	.....	8	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	30.02	762.5	30.05	763.3	62.5	16.9	83	se.	17	7.6	.....	.....	10	.....	.....	.....	.....	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.72	754.9	30.11	764.8	75.2	24.0	63	sw.	12.4	5.5	.....	2 c	1 n	w.	sw.	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.97	761.2	30.01	762.2	62	16.7	88	sw.	10	4.5	.....	1 c	0	.....	.....	0.44	11.2	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.95	760.7	29.99	761.7	55	12.8	85	nw.	3	1.3	.....	0	0	n.	.....	0.250	6.3	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.98	761.5	30.04	763.0	46	7.8	89	sw.	3	1.3	.....	5 c	0	.....	.....	0.40	10.2	fair	G. A. Blair.
Cornwall, Ontario	30.06	763.5	30.25	768.3	44.9	7.2	98	nw.	.....	.....	1	0	0	sw.	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	29.90	759.4	29.95	760.7	48.0	8.9	.....	w.	.....	.....	2	0	0	.....	.....	0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.	27.30	694.9	.....	.....	47	8.3	48	calm	0	0	.....	0	0	.....	.....	0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.96	761.0	29.98	761.5	49	9.4	83	nw.	28	12.5	.....	0	2 ks	.....	nw.	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.09	738.9	29.92	760.0	48	8.9	80	se.	13	5.8	.....	5 c	0	.....	.....	0	0	fair	James Stewart.
Fredericton, N. B.	30.06	763.5	30.11	764.8	47.2	8.4	84	nw.	9.0	4.0	.....	0	0	w.	.....	0.170	4.3	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.07	763.8	30.13	765.3	51	10.6	69	n.	10	4.5	.....	5 k	0	nw.	.....	0.255	6.5	fair	J. Chipman Seeley
Granton, Ontario	29.20	741.7	30.33	770.4	42.0	5.6	100	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.88	758.9	30.01	762.2	54	12.2	93	nw.	6	2.7	.....	7 k	0	.....	.....	0.167	4.2	fair	A. Allison.
Hamilton, Ontario	29.80	758.4	30.25	768.3	51.9	11.1	96	ne.	.....	.....	1	2 k	0	n.	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.96	761.0	30.29	769.4	50	10.0	83	ne.	2	0.9	.....	0	0	nw.	.....	0.01	0.3	hazy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.86	758.4	29.90	759.4	53.5	11.9	93	n.	.....	.....	6	.....	10 n	.....	.....	0.015	0.4	raining	C. H. Rigby.
London, Ontario	29.37	746.0	30.30	769.6	42.7	5.8	100	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	E. B. Reed.
Medicine Hat	27.30	694.9	29.58	751.3	53	11.7	36	s.	20	8.9	.....	0	0	.....	.....	0	0	blue sky	John Ewart.
Montreal, Quebec*	30.04	763.0	30.24	768.1	55	12.8	72	w.	4	1.8	.....	0	0	.....	.....	0.05	1.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.03	762.7	30.28	769.1	45.8	7.7	96	nw.	.....	.....	.....	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.62	752.3	30.34	770.6	43	6.1	100	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.60	751.8	30.34	770.6	50.7	10.4	85	calm	.....	.....	0	0	0	.....	.....	0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.57	751.1	30.28	769.1	49	9.4	94	ne.	18	8.0	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.60	751.8	30.26	768.6	46	7.8	93	n.	7	3.1	.....	0	0	.....	.....	0.01	0.3	clear	M. Payne.
Que Appelle, N. W. T.	27.48	698.0	29.09	754.1	52	11.1	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.79	756.7	30.16	766.1	46	7.8	96	sw.	8	3.6	.....	0	2 ks	.....	sw.	0.02	0.5	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	29.84	757.9	30.32	770.1	41	5.0	92	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.06	763.5	30.11	764.8	48	8.9	81	nw.	10	4.5	.....	0	0	.....	.....	0.25	6.3	clear	
St. John, N. B	29.95	760.7	30.09	764.3	49.0	9.4	87	w.	8	3.6	.....	0	0	.....	.....	0.38	9.7	blue sky	G. Hutchinson.
Saint John's, N. F.	29.85	758.2	30.10	764.5	59	15.0	88	sw.	.....	.....	.....	0	0	.....	.....	0	0	clear	The Commandant.
Saugeen, Ontario*	29.58	751.3	30.31	769.9	43	6.1	89	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	
Stratford, Ontario	29.01	736.8	30.32	770.1	43.0	6.1	92	n.	2.0	0.9	.....	0	0	.....	.....	0	0	blue sky	G. J. Macgregor, M. A.
St. Pierre, N. F.	.....	.....	30.00	762.0	59.0	15.0	.....	sw.	.....	.....	2	.....	.....	.....	.....	0	0	.....	The Commandant.
S. W. Point, Anticosti	29.84	757.9	29.88	758.9	54	12.2	80	n.	2	0.9	.....	2 k	0	nw.	.....	0.28	7.1	clear	Miss Grace Pope.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	29.85	758.2	29.92	760.0	55	12.8	96	n.	12	5.4			10 n			0.15	3.8	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.94	760.5	30.32	770.1	51	10.6	66	n.	7	3.1		0	0			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.25	742.9	30.32	770.1	49.1	9.5	82	n.	5	2.2		0	0			0	0	blue sky	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	50	10.0	93	n.	2	0.9		7 c	0	w.		0.13	3.3	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	62.0	16.7	83	wsw.	9.1	4.1		0	9 ks			0	0	hazy	I. Garfelt.
Springbok Fontein	27.89	708.4			65	18.3	52									0	0		J. T. Eustace
Chilian.																			
Coquimbo	30.09	764.2	30.17	766.2	54.9	12.7	92	se.			1		10					cloudy	Samuel Redolez.
Iquique	30.03	762.8	30.06	763.5	60.4	15.8	75	sw.			3							cloudy	Rafael Moreno.
Niebla	29.63	752.7	29.74	755.4	41.7	5.4	97	e.			2		8		e.	0	0	misty	Federico Kühling.
Punta Caldera	30.01	762.3	30.10	764.5	55.8	13.2	86	se.			2		8 ks		se.			fair	Manuel Tobar.
Punta Corona	29.61	752.0	29.80	756.8				w.			8		10 n		w.	0.693	17.6	raining	Ignacio Ayala.
Valparaiso	29.85	758.2	29.99	761.8	54.0	12.2	87	nw.			2							cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.27	641.8																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.87	758.8	29.90	759.4	68.0	20.0	75	ne.	3.8	1.7			6 k		ne.	0	0	cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.04	763.0	30.09	764.2	59.7	15.4	76	nw.	13	6			9						Oversergent Fischer.
Fanoe	30.15	765.9	30.17	766.4	60.3	15.7	80	wnw.	9	4			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.27	768.8	30.31	769.9	45.7	7.6	85	e.	9	4			8						A. O. Thorlacius.
Thorshavn	30.25	768.3	30.27	768.9	51.3	10.7	94	calm	0	0			10					foggy	Overloerer Bergh.
Vestervig	30.03	762.8	30.12	765.1	58.8	14.9	78	wnw.	13	6			8						Loerer Oesterhol.
Egyptian.																			
Cairo	29.73	755.2			84.6	29.2		ne.	4.5	2.0			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.59	751.5	30.21	767.4	75.6	24.2	54	calm			0	ck		se.		0	0		M. Labroue, Director.
Alençon, Normal School	29.77	756.2	30.28	769.2	65.5	18.6	83	s.			1		s		n.	0	0		M. Nicot, Director.
Avignon, Normal School	30.01	762.2	30.09	764.2	77.0	25	61	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.65	753.2	30.20	767.1	68.7	20.4	64	se.			1		5 kn		ne.	0	0	cloudy	M. Saillard, Director
Beauvais, Normal School	29.95	760.7	30.21	767.3	68.7	20.4	70	se.			1		5			0	0	cloudy	M. Frère-Eugène Marié.
Besançon, Normal School	29.24	742.6	30.12	765.1	71.6	22	66	ne.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.88	758.9	30.13	765.3	79.0	26.1	41	ese.			1	5 c				0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.65	753.2	30.19	766.8	75.2	24	53	n.			1		k		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.94	760.4	30.18	766.6	69.4	20.8	76	se.			1		8		se.	0	0	stormy	M. de Kermarée, Dir.
Caen, Normal School	30.09	764.2	30.17	766.3	69.4	20.8	78	s.			1		2		s.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.86	758.4	30.17	766.4	71.1	21.7	69	n.			1		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.69	754.0	30.19	766.8	73.0	22.8	56	e.			1		2			0	0	¼ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.82	732.1	30.14	765.5	71.6	22.0	43	nnw.			1		2		n.	0	0		M. Alluard, Director.
Cluny, Normal School	29.35	745.4	30.20	767.0	68.0	20	63	ne.			2				ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.36	745.8	30.20	767.1	67.6	19.8	54	n.			1	2 c		n.	n.	0.004	0.1	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.57	700.3	30.02	762.6	69.8	21	56	n.			4		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.95	735.3	30.03	762.7	76.6	24.8	42	nnw.			1		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.35	745.6	30.10	764.6	70.5	21.4	62	se.			1		k		n.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.58	726.0	30.12	765.1	70.2	21.2	53	ne.			1	2 ck		ne.		0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.90	759.4	30.17	766.4	72.5	22.5	63	se.			1		5		se.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.56	750.7	30.18	766.6	77.9	25.5	58	se.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.08	763.9	30.18	766.5	71.2	21.8	84	sse.			1		5		sw.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.12	739.6	30.15	765.7	66.9	19.4	65	nne.			1		2 k			0	0	slightly cl'dy	M. André, Director
Mans, Normal School	29.91	759.7	30.21	767.4	69.8	21		s.			1		5 ks		sw.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.78	756.5	30.05	763.2	76.1	24.5	52	wsw.			2		1			0	0		M. Stephan, Director.
Montlouis	25.04	635.9	29.88	758.9	59.0	15.0	21	w.	9.4	4.2			3		nw.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.04	763.1	80.6	27	52	ne.			2		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	30.04	762.9	30.20	767.0	74.7	23.7	56	sse.			1		9 k; kn		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.02	762.4	30.13	765.2	81.1	27.3	40	e.	5.6	2.5			4	nnw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.9			47.1	8.4							1		nw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.08	738.5	30.10	764.6	74.1	23.4	48	n.			1		kn			0	0		M. Taillieu.
Puy de Dôme Obs'y, Summit	25.36	644.2			50.0	10.0	76	ne.			3		2 k			0.020	0.5		M. Alluard.
Rochefort, Naval Obs'y	30.13	765.2	30.16	766.0	75.2	24.0	62	calm			0		8		w.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.5	30.15	765.8	73.0	22.8	96	sw.			1		5		ssw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	28.05	712.4	30.19	766.8	55.6	13.1	76	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.16	766.0	30.21	767.2	73.0	22.8	62	se.			2		5	w.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.05	763.3	30.22	767.5	72.5	22.5	51	e.			1		1		nw.	0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.49	749.1	30.22	767.6	77.4	25.2	49	n.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.00	762.1	30.18	766.6	74.5	23.6	59	s.			1		2	se.	sw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.72	755.0	30.22	767.5	72.7	22.6	47	e.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.00	761.9	30.15	765.7	78.8	26.0	45	se.	9.8	4.4		2 c		w.		0	0		M. Cartier, Director.
German.																			
Ansbach	28.75	730.2	30.18	766.5	62.2	16.8	83	nw.			2		3	nw.		0.461	11.7		Prof. Jnedt.
Bamberg	29.33	745.0	30.18	766.6	64.0	17.8	73	n.			2		6 k		nw.	0.043	1.1		Prof. Dr. Hoh.
Berlin	30.00	762.0	30.14	765.6	63.0	17.2	82	nw.			2		7			0.043	1.1		Dr. Lensch.
Breslau	29.60	751.8	30.13	765.3	64.6	18.1	76	wnw.			3		10			0	0	hazy	Royal University Obs'y.
Carlsruhe	29.76	755.9	30.22	767.5	64.0	17.8	72	ne.			2		9	ne.		0	0		Albert Senz.
Cassel	29.48	748.9	30.16	766.0	60.8	16.0	66	n.			2		8	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.84	757.8	30.19	766.9	64.9	18.3	66	nne.			1		8			0	0		Physical Society.
Friedrichshafen	28.78	730.9	30.17	766.2	65.1	18.4	81	sw.			2		7	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.12	765.1	30.21	767.4	62.2	16.8	74	wnw.			3		8			0	0		E. Preller.
Kiel	30.16	766.0	30.17	766.4	61.7	16.5	68	nw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.76	755.9	30.18	766.5	63.3	17.4	65	nnw			3		9			0.079	2.0		H. Leppig, Asst.
Magdeburg	29.98	761.6	30.17	766.3	65.8	18.8	57	nw.			3		6	nw.		0.055	1.4		Weather Observatory.
Memel	30.03	762.8	30.08	764.0	65.5	18.6	83	sw.			2	10 cs							Issermann.
Munich	28.34	719.8	30.21	767.4	61.0	16.1	82	nw.			2		10	w.		0.102	2.6		Central Station.
Neufahrwasser	30.01	762.2	30.02	762.6	68.9	20.5	67	sw.			1		10			0.343	8.7		A. Lothes.
Neustadt, Palatinate	29.65	753.0	30.18	766.5	64.2	17.9	69	ne.			2		4	ne.		0	0		Dicknether.
Stuttgart	29.24	742.7	30.13	765.2	62.2	16.8	87	w.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.10	764.4	30.12	765.0	59.7	15.4	80	nnw.			2		3 s			0.252	6.4		Profs. Brandes & Reimer
Greek.																			
Athens	29.63	752.7	30.00	762.1	79.7	26.5		ne.			1.0		5			0	0	hazy	Schmidt & Wourtisch.
Indian.																			
Kurrachee	29.71	754.6	29.76	755.9	83.0	28.3	72	ssw.	29.0	13.0			7	ssw.	ssw.	0	0	d. clouds	
Deesa	29.30	744.1	29.76	755.9	89.3	31.8	52	w.	8.0	3.6			5	w.		0	0	d. clouds	
Bombay	29.83	757.7	29.87	758.6	81.3	27.4	78	w.	6.0	2.7			6	wsw.		0.04	1.0	d. clouds	
Poona, Yarrowda	28.00	711.1	29.85	758.3	77.8	25.4	66	nw.	18.0	8.0			8			0	0	d. clouds	
Trichinopoly	29.54	750.3	29.81	757.3	91.7	33.2	51	nw.	0.2	0.1			6			0.08	2.0	d. clouds	
Bellary	28.32	719.2	29.76	755.8	89.5	31.9	37	w.	10.0	4.5			7			0	0	d. clouds	
Belgaum	27.33	694.2	29.89	759.2	72.0	22.2	85	wsw.	7.0	3.1			10	e.	w.	0.01	0.3	d. clouds	
Lahore	28.97	735.8	29.69	754.1	91.1	32.8	52	calm	0	0			0			0	0	blue sky	
Roorkee	28.80	731.5	29.68	753.9	87.8	31.0	70	calm	0	0			4	n.		0	0		
Agra	29.15	740.3	29.70	754.3	92.9	33.8	45	w.	6.0	2.7			2		w.	0	0	d. clouds	
Nagpur	28.68	728.5	29.72	755.0	78.2	25.7	80	calm	0	0			10		e.	0.15	3.8	drizzling	
Jubbulpore	28.39	721.1	29.74	755.3	82.8	28.2	73	nnw.	8.0	3.0			6	nw.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.32	744.8	29.70	754.2	83.2	28.4	85	calm	0	0			8			0.02	0.5		
Allahabad	29.37	745.9	29.68	753.8	84.7	29.3	81	calm	0	0			6			0.04	1.0	d. clouds	
Patna	29.51	749.6	29.70	754.2	86.2	30.1	73	e.	2.9	1.3			10	e.	e.	0.95	24.1	overcast	
Hazaribagh	27.71	703.8	29.72	754.9	76.3	24.6	93	ene.	3.2	1.4			10			0.60	15.2	thund'r st'm	
Cuttack	29.62	752.4	29.70	754.4	85.8	29.9	76	calm	0	0			6			0	0	d. clouds	
Calcutta, Alipore	29.69	754.1	29.71	754.7	83.8	28.8	86	ssw.	4.0	1.8			8	s.	s.	0.01	0.3	d. clouds	
Dhubri	29.58	751.4	29.70	754.3	81.2	27.3	90	calm	0	0			8	ne.		0.01	0.3	d. clouds	
Chittagong	29.68	754.0	29.78	756.3	80.7	27.1	90	calm	1.8	0.8			9			0	0	d. clouds	
Sibsagar	29.39	746.6	29.73	755.1	82.1	27.8	84	se.	2.0	0.9			10	sw.	sw.	0.93	23.6	d. clouds	
Jeypore	28.31	719.1	29.72	754.8	93.2	34.0	33	nw.	5.0	2.2			7		nw.	0	0	d. clouds	
Zanzibar	30.07	763.8			85.1	29.5	61	ese.	2.9	1.3			1	ese.		0	0	d. clouds	
ITALIAN.																			
Udine	29.63	752.6	30.03	762.7	75.9	24.4	43	e.	1.8	0.8			6			0	0		Prof. Giovanni Clodig.
Milan	29.57	751.0	30.08	763.9	72.1	22.3	60	wsw.	3.8	1.7			5	nnw.		0	0		Prof. G. V. Schiapparelli
Padua	29.91	759.8	29.98	761.5	74.7	23.7	49	ne.	6.3	2.8			3	e.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.5	30.08	764.1	69.8	21.0	64	s.	0.7	0.3			5	ne.		0	0		Prof. F. F. Denza.
Genoa	29.85	758.3	30.04	763.0	73.4	23.0	52	nw.	3.8	1.7			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.20	716.2	30.08	764.0	66.7	19.3	63	w.			2		1	w.		0	0		Prof. D. C. Bruno.
Pesaro	29.98	761.4	30.02	762.6	69.1	20.6	80	nnw.	21.0	9.4			10	nw		0.236	6.0		Prof. Luigi Guidi.
Florence	29.74	755.5	30.00	761.9	77.0	25.0	47	n.			2		4			0.126	3.2		Prof. Costantino Pittei.
Leghorn	29.87	758.7	29.95	760.8	73.0	22.8	69	nw.	6.9	3.1			9			0.984	25.0		Prof. P. Monte.
Rome	29.79	756.7	29.96	761.0	72.3	22.4	56	n.	3.1	1.4			10	n.		0.012	0.3		Prof. P. Tacchini.
Lecce	29.69	754.0	29.94	760.4	71.2	21.8	67	se.	18.6	8.3			7	se.		0.169	4.3		Prof. C. de Giorgi.
Cosenza	29.11	739.3	29.97	761.3	68.7	20.4	61	wsw.	1.8	0.8			9	sw.		0.429	10.9		Prof. D. Conti.
Cagliari	29.85	758.1	30.04	762.9	77.0	25.0	49	nw.			6		3	nw.		0.028	0.7		Prof. A. Pacinotti.
Palermo	29.80	756.9	30.04	763.1	73.9	23.3	61	nw.	13.0	5.8			4	nw.		0.039	1.0		Prof. G. Cacciatore.
Syracuse	29.93	760.2	29.97	761.3	75.9	24.4	75	s.	3.1	1.4			7	sw.		0.197	5.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	748.1	29.97	761.1	66.4	19.1	84	nw.	0	0			10	ene.		0.590	15.2		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.73	755.0	29.77	756.0	68.8	20.4	96	calm			0		10 k		w.	0.134	3.4	cloudy	H. Hattori.
Awomori	29.69	754.1	29.72	754.9	65.0	18.3	95	calm	0	0			10ck;s		sw.	0.081	2.1	cloudy	K. Ogawa.
Hamamatsu	29.64	752.8	29.74	755.3	72.5	22.5	88	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	29.80	756.8	29.81	757.1	74.5	23.0	90	nw.			2	0	0			0	0	clear	G. Miyanomaza.
Kanazawa	29.69	754.1	29.79	756.6	68.7	20.4	84	calm	0.3	0.1		0	3ck;s		sw.	0.017	0.4	fair	S. Endo.
Kioto	29.58	751.4	29.76	755.8	72.9	22.7	77	nne.	0.8	0.4		1 ck	2ck;s	sw.		0.028	0.7	fair	M. Tojima.
Kochi	29.77	756.1	29.79	756.6	75.0	24.2	92	nne.	4.5	2.0			10 ck		n.	0	0	overcast	K. Kusunose.
Miasaka	29.78	756.5	29.81	757.2	73.0	23.1	95	wnw.			1	1 cs	0	w.		0	0	clear	K. Masusaki.
Miyako	29.67	753.5	29.78	756.3	65.4	18.6	98	calm	0	0			10 s			2.004	50.9	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.61	752.1	29.80	756.9	74.4	23.6	88	calm	0	0		1 c	0	w.		0	0	clear	S. Takehayashi.
Niigata	29.74	755.4	29.77	756.1	68.8	20.4	94	w.	5.2	2.3		0	1 ks			0.020	0.5	clear	Satoo & Tomikawa.
Nobiru	29.72	754.9	29.74	755.3	68.5	20.3	96	n.	5.5	2.4			10ksn		s.	0.210	5.3	overcast	Yoslino & Midzushina.
Numazu	29.70	754.4	29.73	755.2	73.0	22.8	90	ese.			1	ck	10 ks		ne.	0	0	cloudy	R. Kaneda.
Osaka	29.75	755.6	29.76	756.0	75.7	24.3	80	ne.	2.7	1.2			10ck;s		sw.	0	0	cloudy	H. Omura.
Sakai	29.79	756.7	29.80	756.9	72.3	22.4	89	nne.			2		10 n		w.	0.122	3.1	raining	Yamawchi&Sakamoto.
Shimonoseki	29.66	753.3	29.80	757.0	74.0	23.3	93	calm			0	0	1 s			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.67	753.5	29.74	755.3	71.9	22.2	95	e.	3.5	1.5		0	3s;ks		w.	0.020	0.5	fair	The Staff.
Wakayama	29.69	754.1	29.74	755.4	74.3	23.5	78	e.	0.6	0.3		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.06	763.5	30.25	768.3	74.0	23.3	54	ese.	24.5	11.0		1 c	1 k		ese.	0	0	clear	The Staff.
MEXICAN.																			
Leon	24.30	617.2	29.97	761.2	57.9	14.4	85	wnw.	0.9	0.4		5 c	0			0.08	0.2	½ cloudy	Prof. M. Leal.
Mazatlan	29.02	752.4	29.88	758.9	79.5	26.4	89	e.	5.3	2.3			10 n		se.	0.079	2.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata					78	25.6	100	s.			7		10 n		s.	1.81	46.0	raining	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.24	768.2	30.24	768.2	63.3	17.4		se.			4					0.024	0.6		
Groningen	30.19	766.9	30.25	768.3	61.0	16.1		nne.			1					0	0		
Helder	30.24	768.1	30.24	768.1	61.9	16.6		w.			1					0	0		
Hellevoetsluis	30.25	768.4	30.25	768.4	61.5	16.4	82	ese.			1					0	0		
Utrecht	30.22	767.5	30.26	768.7	64.6	18.1	74	se.			2		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	759.9			79.2	26.2	73	ne.	0	0			6			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.07	763.7	30.13	765.3	57.9	14.4	83	nnw.	2.5	1.1			8			0.295	7.5		
Brono	29.87	758.7	29.91	759.7	52.5	11.4	92	wnw.			4		10					raining	
Christiania	29.84	758.0	29.99	761.7	61.2	16.2	68	sw.	4	2			3			0	0		
Gjæsvær	29.80	756.9	29.82	757.5	43.2	6.2		e.			2		10						
Lodingen	29.66	753.4	29.71	754.6	51.8	11.0	90	sw.			3		10			0.583	14.8	rain & fog	
PORTUGUESE.																			
Augra, Azores					70.9	21.6	72	wnw.	9.8	4.4			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.13	765.2	30.21	767.4	76.6	24.8	63	sw.	4.3	1.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.17	766.2	71.6	22.0	65	sw.	8.1	3.6			0			0	0		The Staff.
Ponta Delgada, Azores	29.98	761.0	30.06	763.4	72.7	22.6	72	nne.	5.6	2.5			3			0.083	2.1		
Saint Paul de Loando	29.80	756.8	30.00	762.0	74.1	23.4	89	w.			2		2	s.		0	0		
San Salvador, Congo	28.13	714.4	29.97	761.3	74.1	23.4	80	nw.			2		6						
Serra da Estrella	25.48	647.1	30.08	763.9	64.4	18.0	47	sw.	3.1	1.4			7			0	0		
RUSSIAN.																			
Akmolinski	29.05	737.8	30.15	765.7	45.3	7.4	31	nw.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	29.81	757.2	29.83	757.7	54.5	12.5	94	calm	0	0			10			0.047	1.2	raining	Capt. Sseliwerstow
Ashuruda	30.15	765.7	30.05	763.3	79.7	26.5	55	nw.	7	3		0	1 k			0	0		
Astrakhan	30.33	770.3	30.20	768.5	73.0	22.8	44	se.	7	3		0	3 k			0	0		Capt. Wisganow.
Baku	30.17	766.4	30.13	765.2	76.1	24.5	58	ese.	13	6		0	1 ks			0	0		
Barnaul	29.40	746.8	29.91	759.8	36.7	2.6	55	w.	22	10			9			0.122	3.1		Meteorological Obs'y
Bielosersk	29.62	752.4	30.08	763.9	68.0	20.0	88	wsw.	7	3		0	6 ks			0	0		
Dorpat	29.79	759.7	30.02	762.6	71.2	21.8	50	ssw.	7	3		7 ck	0			0	0		Observatory.
Ekaterinburg	29.16	740.7	30.14	765.6	45.7	7.6	39	wsw.	13	6			10			0	0		Meteorological Obs'y.
Elisawetgrad	29.83	757.6	30.26	768.7	70.1	21.5	33	calm	0	0			9 ks			0	0		
Irkutsk	28.37	720.7	30.03	762.7	45.5	7.5	82	calm			0		7			0	0		
Kasalinsk					70.5	21.4	37	nw.	4	2									
Kasan	29.98	761.4	30.24	768.2	61.2	16.2	30	sw.	7	3		8 c	0			0	0	light clouds	Observatory.
Kem	29.77	756.1	29.82	757.4	55.6	13.1	78	calm	0	0			9 ks			0	0		
Kertch	30.14	765.5	30.10	766.1	69.8	21.0	50	ne.	7	3		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.58	751.4	30.20	767.0	72.5	22.6	39	se.	4	2		ck	9 ks			0	0		Observatory.
Kosloy	29.77	756.1	30.20	768.7	66.7	19.3	51	calm	0	0		0	5 k			0	0		
Libau	30.01	762.2	30.03	762.8	63.5	17.5	81	wsw.			2		10			0	0		E. Quaas.
Lugan	30.02	762.6	30.22	767.7	72.5	22.6	30	ne.	13	6			2			0	0		Meteorological Obs'y.
Moscow	29.76	755.9	30.22	767.7	66.7	19.3	51	w.	5.6	2.5			9 ks			0	0		Meteorological Obs'y
Nikolaiev	30.18	766.6	30.25	768.4	78.0	25.9	33	calm	0	0		cs	5 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					49.6	9.8	99	calm	0	0		0	5 k						Iwanow.
Pekin, China	29.83	757.6	29.97	761.2	63.9	17.7	52	ne.	4.5	2.0		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.85	758.3	30.20	767.0	73.4	23.0	31	calm	0	0		4 ck	0			0	0		
Petrozavodsk	29.77	756.1	29.96	760.9	64.6	18.1	51	wsw.	27	12		8 ck	0			0.039	1.0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.66	753.3	30.14	765.5	73.6	23.1	38	s.	18	8		1 c	0			0	0		
Poti	30.01	762.3	30.04	763.1	72.3	22.4	90	sw.	4	2		0	2 k			0.024	0.6		
St. Petersburg	30.00	762.0	30.02	762.6	70.2	21.2	46	sw.	13	6		cs	6 ks			0	0		Central Physical Obs'y.
Samarkand	27.73	704.4	30.15	765.9	67.6	19.8	42	s.	7.8	3.5		0	0			0	0		
Semipalatinsk	29.50	749.2	30.17	766.3	43.5	6.4	36	nw.	11	5			0			0	0		Major Lasarew
Sevastopol	29.95	760.7	30.15	765.8	78.3	25.7	38	wsw.	27	12		0	1 s			0	0		
Staroi Bykhov	29.63	752.7	30.17	766.2	77.0	25.0	35	sse.	11	5		0	8 k			0	0		
Tashkend Laboratory	28.49	723.6	30.11	764.8	71.2	21.8	26	nw.	7	3		0	5 ks			0	0		Terch, A. M
Tiflis	28.73	729.6	30.13	765.4	61.0	16.1	89	e.	2	1		0	7 n			0.441	11.2		Physical Observatory.
Vernoe	27.59	700.7	30.06	763.5	59.4	15.2	69	calm	0	0		7 ck	0			0	0		
Viatka	29.50	749.2	30.12	765.0	57.2	14.0	71	sw.	7	3			2			0.035	0.9		
Warsaw	29.68	753.8	30.09	764.2	70.7	21.5	64	sw.	4	2			10 k			0	0		Astronomical Obs'y.
Yeniseisk	29.36	745.7	29.65	753.1	40.6	4.8	91	ene.	4	2			10			0.091	2.3	raining	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	30.00	762.0	30.10	764.6	77.0	25.0	70	sw.	6.7	3.0		0	2			0	0	almost clear	Antonio Molins.
Bilbao, Met. Obs'y	30.07	763.7	30.13	765.2	84.2	29.0	40	se.	2.5	1.1		6	0	w.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.24	691.9	30.11	764.9	72.1	22.3	41	sw.	1.8	0.8			4			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.4	30.10	764.4	82.4	28.0	29	s.	6.5	2.9		1	0	wsw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.00	761.9	30.11	764.8	84.0	28.9	54	sse.	2.2	1.0		3	5	ne.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.38	746.2	30.14	765.5	61.7	16.5	90	e.	5.4	2.4		4 n	6 n	w.	nw.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.17	740.8	30.04	763.1	65.5	18.6	96	s.	3.8	1.7			10			0.161	4.1	misty	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.85	758.2	29.92	759.9	77.2	25.1	85	se.	1.8	0.8		ics;ck	k	wsw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.4	78.2	25.7	90	sw.	17.6	7.9			9 kn			0.134	3.4	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.16	766.2	79.0	26.1	60	sw.	5.4	2.4		0	1		ne.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.91	759.6	30.00	761.9	78.1	25.6	87	se.	11.2	5.0			10 n		se.	0.295	7.5	raining	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.71	754.7	29.75	755.7	54.1	12.6	96	sw.			2		8			0.169	4.3		
Umea	29.79	756.6	29.84	757.9	65.8	18.8	54	w.			2		5			0	0		
Hernosand	29.53	757.6	29.88	758.9	67.6	19.8	44	nw.			4		1			0	0		
Stockholm	29.81	757.1	29.98	761.6	59.4	15.2	82	sw.			2		9			0	0		
Wisby	29.96	761.0	30.02	762.5	60.4	15.8	87	w.			4		10			0	0		
Sub-series.																			
Upsala	29.85	758.3	29.94	760.5	64.8	18.2	71	w.	3.1	1.4			6	wsw.		0.008	0.2		H. H. Hildebrandesson.
Swiss.																			
Geneva	28.75	730.2	30.14	765.5	65.7	18.7	68	n.			2		3			0	0		The Observatory.
Turkish.																			
Constantinople			30.14	765.5	73.8	23.2	55	nne.	22	10.0			5		ne.	0	0		The Observatory.
Valona			30.087	763.97	68.9	20.5		w.			1		10					rainy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	759.9	83.8	28.8	64	nw.			2		1 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.95	684.5			71	21.7	71	e.			2	5 c	3 ks	calm	calm	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.19	766.8	30.27	768.8	52.5	11.4	69	n.	4	1.8		5 c	0	w.		inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.31	769.9	43	6.1	83	nw.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	29.81	757.2	50	10.0	80	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.97	685.0	29.82	757.4	47	8.3	58	sw.	16	7.2		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.82	732.0	29.99	761.7	66.3	19.1	100	calm	0	0			fg.			inap.	inap.	dense fog	Edward A. Beals.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	62	16.7	93	ne.	22	9.8			10 n			0.04	0.9	light rain	Jas. M. Watson.
Augusta, Georgia	29.78	756.4	29.97	761.2	71.5	21.9	90	calm	0	0		0	1 s			0.02	0.5	clear	D. J. Young.
Baltimore, Maryland	30.11	764.8	30.10	766.1	60	15.6	81	e.	9	4.0			10 s		ne.	0.54	13.7	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.10	764.5	30.12	765.0	61.0	16.1	93	ne.	33	14.8			10 n		ne.	0.09	2.3	light rain	G. A. Hill.
Behring Id., Behring Sea	30.21	767.3	30.23	767.8	47.0	8.3	93	s.	15	6.7			10 k;n		s.	0	0	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.30	718.8	29.88	758.9	64.0	17.8	58	se	16	7.2		5 c	4 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.06	687.3	29.90	759.4	51	10.6	66	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.04	712.2	29.84	757.9	58	14.4	72	se.	9	4.0		7 c	0	sw.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.13	765.3	30.16	766.1	58	14.4	80	ne.	26	11.6		5 cs	4 s		ne.	0.01	0.3	cloudy	J. T. Elker.
Boise City, Idaho	27.10	688.3	29.87	758.7	49.5	9.7		n.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.06	763.5	30.21	767.3	54.0	12.2	74	n.	10	4.5		8c;cs	fg.	w.		0.04	1.0	cloudy	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.94	760.5	75.0	23.9	97	e.	1	0.4		10 c	0	w.		0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.53	750.0	30.26	768.6	49.3	9.6	91	e.	3	1.3		0	sk			0.02	0.5	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.84	707.1	29.82	757.4	49	9.4	80	calm	0	0		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.70	754.4	30.10	764.5	61.6	16.4	85	n.	8	3.6			10 s		n.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.79	756.7	29.99	761.7	54.8	12.7	92	nw.	3	1.3		0	5 k		nw.	0.43	10.9	fair	O. D. Stewart.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	74.0	23.3	97	ne.	8	3.6		0	6 s		s.	0.07	1.8	fair	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino, California	29.27	743.4	29.95	760.7	55	12.8	93	nw.			7		10 s		nw.	0.28	7.1	cloudy	J. J. McLean.
Cedar Keys, Florida	29.91	759.7	29.93	760.2	75.5	24.2	94	ne.	7	3.1		0	8 s		ne.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	29.87	758.7	29.92	760.0	74.0	23.3	97	ne.	7	3.1			10 s		e.	0.04	1.0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.14	740.1	29.98	761.5	66.2	19.0	92	ne.	5	2.2		6 cs	0	sw.		0.25	6.3	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.98	761.5	63.0	17.2	92	calm	0	0		1 cs	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.05	611.1	29.92	760.0	48.0	8.9	48	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.53	750.0	30.22	767.6	57.0	13.9	69	e.	8	3.6		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	67	19.4	100	ne.	28	12.5			10n;fg		ne.	0.10	2.5	light rain	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.10	764.5	60.0	15.6	69	ne.	5	2.2		0	7 ks		ne.	inap.	inap.	fair	L. Dunne.
Cleveland, Ohio	29.48	748.8	30.20	767.1	55.5	13.1	56	e.	6	2.7		1 k	0			0.01	0.3	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.27	743.4	30.17	764.8	57	13.9	69	n.	6	2.7			10 s		nw.	0.06	1.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.11	714.0	30.01	762.2	66.3	19.1	75	ne.	6	2.7		3 ck	4 s	e		0	0	fair	J. McGlone.
Custer, Fort, M. T.	26.75	679.4	29.87	758.7	50	10.0	59	e.	4	1.8		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.54	750.3	30.19	766.8	50	10.0	77	ne.	6	2.7		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.90	759.4	64	17.8	84	n.	4	1.8			10 s			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.13	714.5	29.88	758.9	51.5	10.8	64	e.	5	2.2		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.29	642.4	29.85	758.2	61	16.1	84	s.	4	1.8			10 s		s.	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del	30.06	763.5	30.08	764.0	66	18.9	93	ne.	36	16.1			10 s		ne.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.74	628.4	29.85	758.2	50.5	10.3	71	s.	2	0.9		0	1 s			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.20	767.1	45	7.2	83	calm	0	0		0	fg			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.26	768.6	53.0	11.7	80	n.	9	4.0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.48	698.0	30.03	762.7	55	12.8	80	se.	10	4.5		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.54	750.3	30.24	768.1	45.2	7.3	89	ne.	1	0.4			fg.			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.21	767.3	51	10.6	80	calm	0	0		4 cs	0			0	0	fair	N. B. Conger.
Eastport, Maine	30.04	763.0	30.11	764.8	49.5	9.7	77	nw.	15	6.7		0	2 s			0.15	3.8	clear	D. C. Murphy.
Elliott, Fort, Texas	27.36	694.9	30.05	763.3	57	13.9	60	se.	4	1.8		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.26	667.0	29.91	759.7	70.0	21.1	61	ne.	8	3.6			10 s		ne.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.53	750.0	30.24	768.1	52	11.1	80	ne.	3	1.3		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.65	753.1	30.31	769.9	43.5	6.4	100	s.	2	0.9			fg.			0	0	dense fog	George Heathcote.
Galveston, Texas	29.92	760.0	29.96	761.0	78	25.6	88	ne.	8	3.6		3 cs	3 ks		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.60	751.8	30.26	768.6	48.0	8.9	86	ne.	6	2.7		0	0			0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.16	639.1	29.76	755.9	73.7	23.2	44	se.	4	1.8		0	9 s		se.	0	0	cloudy	Chas. A. Read.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	77.0	25.0	85	e.	12	5.5		3 k	4 s	ne.	se.	0	0	fair	R. M. Crawford.
Helena, Montana	25.71	653.0	29.88	758.9	48	8.9	66	sw.	3	1.3		0	0			0	0	clear	I. H. Jones.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.63	727.2	30.01	762.2	52.4	11.3	81	se.	18	8.0		3 cs	3 k	se.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.10	764.5	53.6	12.0	85	ne.	3	1.3		0	9 s		e.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	79.1	26.2	91	n.	6	2.7		4 cs	2 ks	nw.		0.20	5.1	fair	I. A. Reed.
Jacksonville Florida	29.89	759 2	29.93	760.2	71.0	21.7	94	sw.	2	0.9		2 cs	0			2.44	62.0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.53	750.0	30.18	766 6	50.0	10.0	86	ne.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.[illegible]	758.4	29.88	758.9	79	26.1	82	calm	0	0		2 k	0			0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	75	23.9	85	ne.	10	4.5		0	7 k		ne.	0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	28.98	736.1	30.00	762.0	65.6	18.7	85	ne.	3	1.3		1 k	2 s	sw.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.48	748.8	30.25	768.3	46	7.8	93	calm	0	0			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.28	743 7	30.16	766.1	49	9.4	86	calm	0	0		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.03	737.3	29.86	758.4	51.0	10.6	58	se.	1	0.4			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	60	15.6	75	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.44	747.8	29.83	757.7	56	13 3	96	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.04	763.0	60	15.6	81	ne.	10	4.5			10 s			0.07	1.8	cloudy	L. M. Dey.
Lynchburg, Virginia	29.36	745.7	30.04	763.0	70	21.1	84	ne.	5	2.2			10 n		ne.	0.21	5.3	light rain	Louis Duane.
Mackinaw City, Michigan	29.68	753.9	30.33	770.4	47.9	8.8	86	calm	0	0		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	75.0	23.9	97	ne.	11	4.9		3 cs	1 ks	n.	n.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.48	647.2	29.88	758.9	56	13.3	69	nw.	3	1.3		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.56	750.8	30.28	769.1	56.0	13.3	60	w	6	2.7		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.06	763.5	59	15.0	100	ne.	4	1.8			fg.			0	0	dense fog	D. T. Flannery.
Milwaukee, Wisconsin	29.53	750.0	30.27	768.8	55	12.8	74	se	11	4.9		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.88	758.9	29.92	760.0	71.4	21.9	71	n.	7	3.1		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.72	754.9	29.95	760.7	69	20.6	84	n.	5	2.2		0	fg.			0.02	0.5	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.01	736.8	30.00	762.0	51	10.6	86	s.	20	8.9		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.95	608.3	30.10	764.5	33.0	0.6	57	n.	30	13.4		0	0			0.22	5.6	clear	S. W. Beall.
Nashville, Tennessee	29.45	748.0	30.02	762.5	63.5	17.5	87	ne.	6	2.7			10 ks		ne.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.18	766.6	54.5	12.5	80	ne.	11	4.9		0	8 s		ne.	0.26	6.6	cloudy	J. H. Sherman.
New London, Connecticut	30.17	766.3	30.22	767.6	57	13.9	86	ne.	2	0.9			10 ks			0.09	2.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.86	758.4	29.91	759.7	76.0	24.4	66	n.	7	3.1		0	0			0	0	clear	M. Herman.
New York, New York	30.02	762.5	30.18	766.6	59	15.0	75	n.	11	4.9			10 s		ne.	0.16	4.1	cloudy	H. J. Peurod.
Norfolk, Virginia	29.96	761.0	29.99	761.7	74.0	23.3	90	n.	1	0.4		4 ck	0	sw.		0	0	fair	Wm. Davis.
North Platte, Nebraska	27.05	687.1	29.93	760.2	56.6	13.7	82	e.	15	6.7		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	51.0	10.6	93	sw.	1	0.4		5 k	0	w.		0.08	2.0	fair	J. Dascomb.
Omaha, Nebraska	29.01	736.8	30.18	766.6	52.0	11.1	86	se.	1	0.4		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.95	760.7	30.27	768.8	51.5	10.8	83	e.	1	0.4		0	0			0.01	0.3	clear	J. G. Linsley
Palestine, Texas	29.46	748.3	30.02	762.5	62.5	16.9	70	ne.	12	5.4		4 cs	0	nw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.88	758.9	29.91	759.7	74.2	23.4	81	calm	0	0		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.07	763.8	30.17	766.3	57.5	14.2	93	ne.	16	7.2			10n; fg		ne.	1.15	29.2	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.95	455.9	29.93	760.2	24	— 4.4	80	sw.	38	17.0		0	0			0.18	2.6	clear	H. Hall.
Pittsburg, Pennsylvania	29.36	745.7	30.15	765.8	57.0	13.9	69	ne.	3	1.3			10 s		ne.	0.18	2.6	cloudy	G. C. Schaeffer.
Poplar River, Montana					50	10.0	72	sw			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.55	750.6	30.22	767.6	52.7	11.5	86	e.	9	4.0		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.14	765.5	30.19	766.8	56.0	13.3	69	n.	5	2.2		0	0			0.06	1.5	clear	W. W. Eichelberger.
Portland, Oregon	29.94	760.5	30.01	762.2	54.0	12.2	93	nw	1	0.4		0	0			0.35	8.9	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.75	628.6	29.85	758.2	47.5	8.6	51	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.14	765.5	30.17	766.3	58	14.4	77	ne.	9	4.0		0	9 s		w.	0.43	10.9	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.50	749.3	29.85	758.2	62	16 7	50	ne.	3	1.3		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGaurn.
Roseburg, Oregon	29.48	748.8	30.03	762.7	58.3	14.6	79	ne.	2	0.9			10k; ks		nw.	0.14	3.6	threatening	J. J. Nanry.
Sacramento, California	29.75	755.6	29.82	757 4	59.0	15.0	81	se.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.53	750.0	30.14	765.5	52.7	11.5	92	n.	7	3.1		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.49	749.0	29.52	749.8	38	3.3	94	se.	12	5.4			10 s			0.52	13.2	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.35	745.5	30.20	767.1	47.0	8.3	93	se.	6	2.7		1 ck	0			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	29.05	737.9	29.92	760.0	54	12.2	80	s.	14	6.3		3 c	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.61	650.5	29.86	758.4	58	14.4	50	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.73	755.1	29.80	756.9	64.0	17.8	87	ne.	4	1.8			10 s			0	0	cloudy	F. R. Day.
Sanford, Florida	29.85	758.2	29.90	759.4	74	23.3	94	nw.	3	1.3		0	9 ks			0.04	1.0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.52	749.8	30.19	766.8	60	15.6	95	n.	20	8.9		0	3 k			0.22	5.6	clear	B. F. Hough.
Sandy Hook, New Jersey	30.14	765.5	30.17	766.3	60.0	15.6	81	ne	23	10.3		10 k	0	ne.		0.77	19.6	cloudy	B. A. Blunden.
San Francisco, California	29.80	756.9	29.87	758.7	56.5	13.6	96	sw.	4	1.8			fg.			0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.86	758.4	29.95	760.7	72.5	22.5	90	nw.	4	1.8		4 ck	0			0.09	2.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.16	664.5	29.77	756.1	53	11.7	61	sw.	8	3.6		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.75	755 6	29.99	761.7	65.0	18.3	90	ne.	4	1.8		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732.8	30.07	763.8	55	12.8	86	n.	5	2.2		1 c	0	n.		0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.42	747.3	29.48	748.8	48	8.9	77	e.	11	4.9			10 n		e.	0.40	10.2	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.62	752.3	30.09	764 3	52.6	11.4	86	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.90	759.4	29.94	760.5	74.0	23.3	84	ne.	0	2.7		3 cs	2 ks	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.80	706.1	29.84	757.9	57	13.9	83	sw.	11	4.9		3 ck	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.49	749.0	30.16	766.1	50.5	10.3	82	ne.	5	2.2		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.01	686.0	29.97	761 2	67	19.4	90	e.	2	0.9		6 cs	0			0	0	fair	Louis Dorman.
Thomas, Camp, Arizona					67	19.4	47	e			2	0	7 s		s.	0	0	fair	R. C. Lord.
Toledo, Ohio	29.51	749.5	30.19	766.8	53	11.7	80	ne.	10	4.5		0	3 k		e.	0.01	0 3	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.80	756.9	29.82	757.4	39	3.9	82	nw.	18	8.0			10 n		nw.	0.04	1.0	light rain	Samuel Applegate.
Verde, Fort, Arizona					55	12.8	37	nw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.73	755.1	29.98	761.5	67.5	19.7	89	calm	0	0		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.03	762.7	30.14	765.5	60.8	16.0	85	ne.	10	4.5			10 s		ne.	0.25	6.3	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.02	660.9	29.84	757.9	54	12.2	74	w.	11	4.9		2 cs	0	sw.		inap.	inap.	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	29.90	759.4	29.96	761.0	71.0	21.7	94	se.	1	0.4		5 cs	sk.			inap.	inap.	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.80	731.5	30.09	764.3	51.2	10.7	88	s.	8	3.0		4 c	0	w.		0	0	fair	E. H. Thompson.
Yuma, Arizona	29.55	750.0	29.69	754.1	75.5	24.2	83	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		w.			1		6 k		n.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.05	560.1			54.0	12.2	66	e.	7	3		0	4s; ks		w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.92	760.0	75.2	24.0	91	n.	1	0.4		7 cs	3 s	sw.	calm	0.10	2.5	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78.5	25.8	80	se.			2	4 c	3 s	e.		0.140	3.0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	740.2	29.94	760.5	79	26.1	85	s.			1		9 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	90	sw			1	10 ck		sw.		0.36	9.1	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	30.09	764.3	30.16	766.1	37.5	3.1	95	w.	8	3.6		0	0			0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 37° 55′, E. 23° 40′	30.06	763.5	79	26.1	58	wsw.			1		2	nnw.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	77.5	25.3	80	sse.			3		8	ese.						squally.
H. M. S. Griffon, N. 36° 40′, W. 71° 56′	30.04	763.0	79	26.1	82	e.			2		2	e.						d. clouds.
H. M. S. Iris, off Port Said, Egypt	29.94	760.5	79	26.1	82	nw.			3		0							blue sky.
H. M. S. Tenedos, Sydney, C.B	29.91	759.7	57	13.9	100	nne.			3		10							drizzling.
U. S. Navy Yard, Portsmouth, N. H *	30.15	765.8	50	10.0	86	n.	6	2.7			2		nw.	0	0			fair.
U. S. S. Alliance, Halifax, N.S	29.99	761.7	56	13.3	87	nnw.			2		2			h'vy	h'vy	sm'h		clear.
U. S. S. Galena, N. 23° 53′ W. 59° 15′	30.13	765.3	82	27.8	87	ene.			5		10		ene.			mod.	ene.	cloudy.
U. S. S. Jamestown, Funchal, Madeira	30.22	767.6	75	23.9	90	wsw.			1		0?					sm'h		fair?
U. S. S. Kearsarge, N. 40° 10′, W. 13° 40′	30.06	763.5	71	21.7	95	ssw.			3		10		ssw.			long	nw.	cloudy.
U. S. S. Lancaster, Port Mahon, Spain	30.16	766.1	79	26.1	86	nnw.			1		2		nnw.			sm'h		fair.
U. S. S. Portsmouth, N. 40° 45′, W. 70° 05′	30.13	765.3	56	13.3	100	ne.			5		8		n; e.			mod	ne.	cloudy.
U. S. S. Powhatan, St. Johns, N. F	30.00	762.0	61	16.1	88	ssw.			2		5		ssw.					fair.
U. S. S. Quinnebaug, Port Mahon, Spain	30.29?	769.4?	76	24.4	73	nw.			1		2		nw.			sm'h		fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.21	767.3	58	14.4	94	ene.			3		8		ene.	light	light	sm'h		cloudy.
U. S. S. Swatara, Charlottetown, P.E.I	29.99	761.7	56	13.3	87	n.			3		2		sw.	light	light	sm'h		clear.
U. S. S. Vandalia, Halifax, N. S	29.98	761.5	56	13.3	87	n.			2		8							fair
U. S. S. Yantic, St Johns, N. F	29.99	761.7	63	17.2	78	sw.			3–4		10							cloudy
S. S. British Princess, N. 51° 28′ W. 16° 00′ †	29.85	758.9	59	15.0		s.			5		8		ssw.	4 h'r	4 h'r	mod.	s.	cloudy
S. S. Lord Gough, N. 40° 45′, W. 67° 23′	30.00?	762.0?	56	13.3		nne.			4		10		ne.	o	o	sm'h		overcast
S. S. Ohio, N. 46° 52′ W. 46° 07†	30.15	765.8	52	11.1	93	wsw.			1		10		w.	o	o			cloudy.
S. S. Grecian, Glasgow, Scotland	30.16	766.1	63	17.2	78	e.			1		9		e.	o	o			hazy.
S. S. Polynesian, Cape St. Lawrence, C.B			56	13.3		wsw			2		2			1 h'r	1 h'r			fair.
S. S. Prussian, N. 54° 15′, W. 20° 51′	29.85	758.2	60	15.6		se.			4		10		se.	5 h'r	5 h'r	mod	se.	misty.
S. S. Sardinian, N. 53° 17′, W. 52° 06′	29.76	755.9	45	7.2		s.			5		9		s.	o	o	cross	s;se.	hazy.
S. S. Alvo, Savanilla, U. S. C.*	29.85	758.2	81	27.2		nne.			4		7		ne.	o	o	short	n.	fine.
S. S. Andes, N. 30° 50′, W. 69° 00′ *†	29.95	760.7	76	24.4					5		10		ssw.	18 h'r	18 h'r	h'vy	ssw.	heavy squ'lls
S. S. Avilla, Aux Cayes, Hayti, W. I*†	30.00?	762.0?	83	28.3		e.			2		5		e.	rain	rain	r'gh	e.	
S. S. Australia, N. 42° 00′, W. 56° 09′ *†	30.00	762.0	65	18.3		sse.			6		7		sse	o	o			fine.
S. S. Dorian, Leghorn, Italy	30.02	762.5																
S. S. Furnesia, N. 52° 10′ W. 6° 14′†	30.21	767.3	64	17.8	89	se.			2		10		se.	o	o	sm'h		overcast.
S. S. Cephalonia, N. 45° 28′, W. 42° 38′	30.14	765.5	60	15.6	88	wnw.			3		10		nnw.	2 h'r	2 h'r	sl't	nne.	d. clouds.
S. S. Bothnia, N. 46° 43′, W. 37° 40′	30.05	763.3	64	17.8	94	nnw.			5		8		nnw	o	o	mod.	nw.	cloudy.
S. S. Scythia, N. 50° 43′, W. 23° 20′	29.63	752.6	64	17.8	94	ssw.			2		7		sw.	2 h'r	2 h'r	sl't	sw.	showery.
S. S. Samaria, N. 42° 06′ W. 52° 58′*	30.15	765.8	57	13.9		ese.			4		0			o	o	sm'h	ese.	clear.
S. S. France, N. 46° 58′, W. 71° 00′†	30.21	767.3	60.8	16		ne.			5		0			o	o	sm'h	ne.	clear.
S. S. Arizona, N. 51° 36′, W. 16° 13′	29.86	758.4	60	15.6		sse.			4		10		se.			mod.	se.	misty.
S. S. Wyoming, N. 40° 30′, W. 70° 09′	30.12	765.0	57	13.9		n.			5		8		n.	o	o	mod.	n.	fair.
S. S. Bohemia, N. 41° 40′, W. 58° 59′ †	30.02	762.5				nw.			4		5		nw.	o	o	sm'h	nw.	fair.
S. S. Gellert, N. 45° 49′, W. 42° 39′	30.14	765.5	54	12.2	87	n.			4		10		nw.	o	o	mod.	ne.	covered.
S. S. Rugia, N. 49° 26′, W. 28° 02′	29.62	752.3	61	16.1		w.			6		7		w.	rain	rain	r'gh	w.	squally.
S. S. Silesia, Hamburg, Germany	30.22	767.6	62.3	16.8		nw.			3		3		nw.	o	o			fair.
S. S. Westphalia, New York, N. Y	30.16	766.1	60	15.6	82	ne.			6		9		ne.	6 h'r	6 h'r			fair?
S. S. Nessmore, N. 49° 46′, W. 33° 41′ *	29.72	754.9	58	14.4	100	nw.			6		7		nw.	o	o	h'vy	nw.	cloudy.
S. S. Archimedes, N. 41° 23′. W. 54° 39′	30.09	764.3				sse.			4		1		ese.	o	o	light	s.	fine.
S. S. Hevelius, N. 14° 56′, W. 25° 45′ *†	29.97	761.2	82	27.8		ne.			5		4		ne.	2 h'r	2 h'r	sm'h		clear.
S. S. Teneirs, N. 23° 40′, W. 21° 49′	30.16?	766.1?	75.5	24.2	78	nne.			4	ck	3 k	e.	nnw.	o	o	3	wsw.	d. clouds.
S. S. Sirius, Lisbon, Portugal	30.13	765.3				wnw			3		5?		wnw.	o	o			clear ?
S. S. Rio Grande, N. 24° 11′, W. 81° 56′†	29.91	759.7	84	28.9		calm			0		1		e.	o	o	sm'h		clear.
S. S. Chalmette, New York, N. Y†	30.16	766.1	60	15.6		nne.			5		5?		ne.	3 h'r	3 h'r			clear?
S. S. New York, N 24° 20′ W. 81° 45′ *†	29.93	760.2	83	28.3		calm			0		2			o	o	sm'h		clear.
S. S. Alleghany, Norfolk, Vat	30.07?	763.8?	76	24.4		ne.			2		4		ne.	light	light			squally.
S. S. Archimede, Palermo, Sicily†	30.07	763.8	80	26.7		nnw.			3		3		nnw.	3 h'r	3 h'r			clear.
S. S. City of Merida, N. 24° 29′. W. 81° 12′*†	29.92	760.0	84	28.9		se.			1		1		se.	1 h'r	1 h'r	mod.	se.	fine.
S. S. City of Washington, N. 19° 08′ W. 95° 38′ *†	29.90	759.4	80	26.7		e.			3		8		e.	1 h'r	1 h'r	light	n.	fine.
S. S. Cienfuegos, N. 20° 58′, W. 74° 10′*	29.97	761.2	82	27.8		sse.			3		3?		sw.	2 h'r	2 h'r	small	se.	overcast ?
S. S. Denmark, N. 41° 30′, W. 62° 30′†	30.07	763.8	62	16.7		wsw.			4		3			1 h'r	1 h'r	sm'h		misty.
S. S. England, N. 41° 43′. W. 57° 35	30.00	762.0				n.			4		0			o	o	sm'h		clear.
S. S. Greece, N. 47° 26′, W. 32° 18′	29.80	756.9	58	14.4	82	n.			6		8		n.	4 h'r	4 h'r	mod.	n.	showery.
S. S. The Queen, N. 46° 06′, W. 41° 21′	30.00?	762.0?	50	10.0		w.			4		10		wnw.	12 h'r	12 h'r	mod	wnw.	dull.
S. S. America, N. 49° 36′, W. 6° 40′*	30.13	765.3	68.0	20.0	77	calm			0		10			o	o	sm'h		hazy.
S. S. Donau, N. 48° 06′, W. 35° 00′	29.94?	760.5?				n			5		4		nw.	1 h'r	1 h'r	r'gh	n.	fair.
S. S. Elbe, N. 47° 39′, W 43° 04′	30.12	765.1	51.8	11.0	94	nw.			6		10		nw.	o	o	r'gh	nw.	covered.
S. S. Habsburg, N. 49° 35′, W. 11° 21′	30.03	762.7				sse.			4		4		sse.	o	o	mod	sse.	fair.
S. S. Hermann, N. 50° 14′, W. 3° 57′	29.59	751.6	58.1	14.5	83	nw.			6		7		nw.	4 h'r	4 h'r	r'gh	nw.	squally.
S. S. Main, N. 44° 41′ W. 54° 52′	29.97	761.2	60.8	16.0		s.			4		4		s.	o	o	mod.	ssw.	fair.
S. S. Ohio, N. 42° 39′, W. 54° 55′	30.06	763.5				s.			4		4		s.	o	o	mod	s.	fair.
S. S. Weser, N. 37° 50′, W. 48° 42′	29.99	761.7				ese.			6		10		se.	2 h'r	2 h'r	r'gh	ese.	rainy.
S. S. City of Augusta, Savannah, Ga†	29.98	761.5				se.			2		6		se.	o	o			fair.
S. S. Muriel, Saint Thomas, W. I	29.96	761.0	84	28.9		se.			3		0			o	o	sm'h		clear
S. S. Orinoco, New York, N. Y			64	17.8		ene.			3		8		ene.	2½ hr	2½ h r			cloudy.
S. S. Rhynland, N. 42° 47′, W. 61° 49′	29.95	760.7	59	15.0	70	w.			4		5		nw.			sm'h		fair.
S. S. Pennland, N. 49° 47′, W. 17° 48′			62	16.7	94	ssw.			5		0		ssw.	6 h'r	6 h'r	mod.	w.	hazy.
S. S. Switzerland N. 50° 27′ W. 16° 59′*†	29.83	757.7				s.			3		5		sse.	6 h'r	6 h'r	rg'h	sse.	fair.
S. S. Vaderland, Antwerp, Belgium			65	18.3		calm			0		0			o	o			clear.
S. S. Waesland, N. 43° 00′, W. 58° 55′	30.02	762.5	65	18.3		wnw.			2		3		nw.	o	o	sm'h		clear.
S. S. Zeeland, N. 39° 49′, W. 70° 44′			62	16.7		ne.			5				ne.	rain	rain	light	ne.	raining.
S. S. P. Caland, Jersey City, N. J	30.15	765.8	60.6	15.9	81	ene.			3									cloudy.
S. S. W. A. Scholten, Rotterdam, Holland	30.29	769.4	62.2	16.8	83	e.			1		4		e.					fair.
S. S. Caracas, La Guayra, Venezuela*†	30.00	762.0	83.5	28.6	85	ne.			1		2			o	o	light	ne.	hazy.
S. S. State of Georgia, N. 53° 57′, W. 25° 38′	29.54	750.3	57	13.9		se.			6		3		s.	o	o	mod.	s.	drizzling.
S. S. State of Indiana, N. 47° 39′, W. 48° 35*†	30.16	765.1	54	12.2		wsw.			3		6		w.	o	o	mod.	e.	fair.
S. S. State of Nevada, Glasgow, Scotland †	30.19	766.8	65	18.3		ne.			4		10		ssw.	o	o			cloudy.
S. S. Thingvalla, Copenhagen, Denmark†	30.12	765.0				wsw.			3		5		wsw.	3 h'r	3 h'r			fair.
S. S. Romano, off Portland, Eng			58	14.4		sw.			1		10		sw.			sm'h		dull.
S. S. Salerno, N. 43° 13′, W. 51° 23′*†	30.15	765.8	57	13.9		se.			3		1		se.	o	o	sm'h	se.	clear.
S. S. Dominion, N 55° 05′, W. 33° 18′*†	29.90	759.4	50	10.0		nnw.			5		10		nnw.			mod.	n.	cloudy
S. S. Oregon, Quebec, Canada	30.00?	763.5?	62	16.7		sw.			2		0					short	w.	clear.
S. S. Texas, N 54° 15′, W. 44° 32′ *†	29.97	761.2	45.5	7.5	80	wnw.			4		7			o	o	sm'h	ese.	overcast.?
S. S. Daniel Steinmann, Antwerp, Belgium *†	30.24	768.1	61	16.1		ene.			2		10			o	o			foggy.
S. S. Saxon, Philadelphia, Pa †	30.17	766.3				nne.			2		9			o	o			threatening.
S. S. Adriatic, N. 45° 12′, W. 42° 00′*†	30.17	766.3	60	15.6		nne.			5				ne.	o	c	mod.	ne.	overcast.
S. S. Celtic, Liverpool, Eng†	30.20	767.1	66	18.9	94	s.			3		8?		s.	o	o	sm'h		clear?
S. S. Republic, N. 44° 16′, W. 55° 51′ *†	29.95	760.7	65	18.3	94	s.			5		9		wsw.	o	o	mod.	s.	d. clouds.
S. S. Iowa, N. 51° 58′, W. 22° 44′†	29.66	753.4	60	15.6		s.			3		8		s.	2 h'r	2 h'r	mod	ssw.	cloudy.
S. S. Amsterdam, N. 44° 41′, W. 52° 42′ *.	30.03	762.7	55.4	13.0		s.			3									
S. S. Algiers, N. 25° 55′ W. 84° 55′*†	29.95	760.7				ne.			1							sm'h		squally.
S. S. City of Alexandria, Progresso Roads, C.A*†	29.80	758.4	80	26.7		ese.			2							small	ne.	d. clouds.
Bk. Arda, N. 50° 32′. W. 9° 27′†	30.06	763.5				s.			1		1?		s.	o	o	light	s.	overcast.?
Bk. Alpheus Marshall N. 34° 06′ W 47° 40′*†	30.04	763.0	80	26.7	96	w.			3		6		wsw.	o	o	mod	w.	fair.
Bk. Ariadne, N. 39° 47′, W. 69° 36′	30.16	766.1	65	18.3	94	ne.			6		8		ne.	o	o	sm'h	ne.	cloudy.
Schr. Arthur Burton, Boston, Mass†	30.17	766.3				ne.			1		8		ne.	o	o	sm'h		cloudy.
Schr. Abbie H Gheen, Vineyard Haven, Mass†	30.24	768.1	62	16.7		ne.			5									cloudy.
S. S. Antonio Lopez, N. 39° 12′, W. 28° 47′	30.13	765.3	68.5	20.3	77	nnw.			3		4			o	o	long	nw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, N. 35° 08′, W. 63° 44′†	30.08	764.0	82	27.8		calm			0		2			0	0	sm'h	w.	clear.
Bk. Aureola, N. 6° 10′, W. 23° 08′†	29.90	759.4	85	29.4		ssw.			5		9		se.	0	0	h'vy	sse.	cloudy.
Bk. Adelaide, N. 18° 11′, W. 41° 25′*†	30.02	762.5				ne.			6		8		ne.	0	0	r'gh	e.	cloudy.
Bg. Belle of the Bay, N. 25° 49′, W. 77° 53′ †	29.90	759.4				se.			1		3		sw.	0	0	sm'h	nw.	clear.
S. S. Cannonbury, San Carlos, Porto Rico, W. I*†	29.94	760.5				calm.			0		6		e.	2 h'r	2 h'r	sm'h		fair.
Bk. Celestina, Genoa, Italy*†	30.12	765.0				ne.			2		4		ne.	0	0			fair.
Bk. Ceylon, N. 38° 34′. W. 58° 10′	30.04	763.0	80	26.7	74	wnw.			3		5		w.	0	0	long	se.	fair.
Schr. C. R. Flint, N. 32° 04′, W. 60° 25′†	30.07	763.8	82	27.8		s.			2		3		ssw.	0	0	mod.	nne.	clear
Bk. Cato, N. 37° 30′, W. 0° 45′ †	30.20?	767.1?				ssw.			1		1		sw.					clear.
Bk. Don Justo, N. 54° 20′, W. 29° 06′						sse.			5		10		sse.	4 h'r	4 h'r	mod	sse.	
Bk. Childwall, N. 23° 01′, W. 24° 08′*	30.03	762.7	76	24.4	91	ne.			4		8		ne.	0	0	sm'h	ne	cloudy.
S. S. D. J. Foley, N. 31° 19′, W. 74° 40′*†	29.90	759.4	82	27.8	87	calm			0		5		nne.	0	0	long	ene.	fair.
Bkt. David A. Preston, Windsor, N. S						nnw.			2		0			0	0			
Bk. Diamant, N. 39° 48′, W. 69° 03′	30.13	765.2	65.5	18.6	96	nne.			5		10		w.	0	0	4	nne.	cloudy.
S. Dynomine, N. 50° 00′, W. 9° 00′	30.04	763.0	60	15.6	97	sse.			3		10			mod.	mod.	high	sw.	rain & fog.
S. Dora, N. 41° 17′, W 59° 29′*†	30.00	762.0	68.5	20.3		nnw.			4		4		nw.	1 h'r	1 h'r	mod.	nw.	fair.
S. David Stewart, N. 22° 51′, W. 61° 36′			85	29.4		e.			4		4		e.	4 h'r	4 h'r	mod.	e.	
S. E. J. Spicer, Antwerp, Belgium	30.18	766.6	63	17.2	94	nne.			2		0			4 h'r	4 h'r			clear.
Schr. Edith R. Seward, Brunswick, Ga.			76	24.4		se.			1		4		n.	3 h'r	3 h'r			clear.
Bk. E. D. Bigelow, Galveston, Texas †	29.96	761.0	83	28.3		nne.			1		0			0	0			clear
Bk. Edmund Phinney, N. 33° 08′, W. 70° 10†′	30.01	762.2				ene.			5		10			9 h'r	9 h'r	r'gh	ene.	light rain.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†.	30.15	765.8	58	14.4		ne.			3		10		ne.	0.06	1.5			cloudy.
S. Gatherer, N. 13° 20′, W. 30° 50′*	29.99	761.7	82	27.8	83	ssw.			2		5		s.	½ h'r	½ h'r	chop	var.	fair.
Bg. George, Arroyo, Porto Rico, W. I *†	30.02	762.5	79	26.1		ene.			1		10		ene.	rain	rain			squally.
Bk. Galeon, N. 36° 21′, W. 14° 30′ †	30.17	766.3	73	22.8		sw.			4		10		wsw.	light	light	mod.	nw.	misty.
S. Grey Eagle, N. 16° 28′, W. 40° 45′									4		10			2 h'r	2 h'r	hv'y	ese.	cloudy.
S. Hedwig, N. 34° 28′. W. 8° 56′	30.16	766.1	71.2	21.8	88	nnw.			4		5		nnw.	0	0	2	nnw	fine.
Bk. Johanne, N. 58° 19′, W. 16° 20′*†	30.07	763.8	58	14.4		se.			4		5		se.	3 h'r	3 h'r	mod.	s.	hazy.
Schr. John L. Thomas, N. 30° 32′, W. 79° 26′*†	29.88	758.9	82	27.8	87	calm			0		10			1 h'r	1 h'r	mod.	e.	raining.
Schr. Jennie N. Huddell, Fort Delaware, Delaware†	30.16?	766.1?	62	16.7	88	ne.			5		10		ne.	1 h'r	1 h'r			cloudy.
Bg. Josefa, N. 50° 48′, W. 17° 20′ †	29.75	755.6				s.			6		5		sw.	3 h'r	3 h'r	r'gh	ssw.	clearing.
Bkt. Kryolith, N. 56° 44′, W. 52° 31′	29.64	752.8				s.			6		10					r'gh	s.	drizzling.
Bk. Lady Hincks, N. 30° 11′, W. 27° 37′ *†	30.15	765.8							2					0	0	light	nw.	fair.
Bg. L. & W. Armstrong, N. 17° 57′, W. 63° 08′ *†	29.98	761.5				ene.			4		3		ene.	½h'r	½h'r	sm'h	ene.	squally.
S. S. Madrid, Kertch, Russia†	30.17	766.3	69	20.6	70	ne.			3		0			0	0			clear.
Bk. Orpheus, N. 50° 15′, W. 40° 19′	29.97	761.2	64	17.8		calm			0		10			0	0	sm'h		cloudy.
Bg. Rising Sun, N. 36° 19′, W. 72° 45′†	30.05	763.3	80	26.7		ene.			4		1		se	0	0	mod.	se.	clear.
Bk. Rosalie, N. 50° 17′. W. 10° 49′*†	30.08	764.0				sse.			3		5		s.	2 h'r	2 h'r	long	wsw.	fair.
Schr. S. B. Hubbard, Doboy Island, Ga†	29.99	761.7	81	27.2		calm			0		0			0	0			clear.
Bgt. Sunlight, N. 14° 02′, W. 59° 12′ *†	29.99	761.7				ese.			3		5		ese.	0	0	mod.	e.	fair.
Bk. St. Lawrence, N. 39° 52′, W. 67° 20′ *†	30.00	762.0				ne.			5				ne	0	0	sm'h		cloudy.
Bg. Teneriffe, N. 43° 30′, W. 63° 45′*	29.97	761.2				n.			7		10					sm'h		fine.
Bk. Tuck Sing, N. 26° 13′, W. 79° 40′*†	29.90	759.4				calm			0		0			½ h'r	½ h'r	sm'h		fine.
Schr. Viola Reppard, Brunswick, Ga†	29.95	760.7	76	24.4		n.			1		9		n	8 h'r	8 h'r			cloudy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 15° 01′, W. 38° 04′	30.06	763.5	75	23.9	85	ese.			2		3	ese.				2	ese.	blue sky.
H. M. S. Opal, S. 15° 36′. W. 1° 18′	30.17	766.3	67	19.4	89	sse.			4		5	sse				4	ssw	d. clouds.
H. M. S. Sylvia, India Light, Uruguay	30.10	764.5	56	13.3	97	nne.			3		3	calm				3	nne.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.97	761.3	76.1	24.5	78	ssw.			3		9	ssw.		0	0	2		gloomy.
H. P. M. S. Bengo, Ambriz, Lower Guinea	29.95	760.8	75.2	24.0	88	ssw.			4		9	ssw.		0	0	2		overcast.
H. P. M. S. Douro, S. 7° 19′, E. 12° 10′	30.00	761.9	73.4	23.0	90	wnw.			1		0			0	0	1	nw.	blue sky.
U. S. S. Brooklyn, Montevideo, Uruguay*	30.09	764.3	60	15.6	88	nne.	18	8.5			2		calm	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.09	764.3	67	19.4	79	ne.			3		2		ne.			sm'h		fair.
Bk. E. L. Pettingill, S. 9° 34′, W. 34° 15′*†	30.20	767.1	76	24.4		se.			5		5		se.	0	0	mod.	se.	
Bk. Great Surgeon, S. 35° 28′, W. 7° 10′*†	30.32	775.2	55	12.8		s.			3		9		s.	0	0	long	sw.	cloudy.
Bk. Godeffroy, off Staten Id., Patagonia	28.50	723.9	43.9	6.6	94	n.			2		10					mod.	n.	cloudy.
Schr. Jas Slater, Para, Brazil†	30.00	762.0	83	28.3		ne.			2		2		ene.	0	0			clear.
Bkt. Louise Adelaide, S. 34° 30′, W. 52° 05′†	30.31	769.9	62	16.7		ne.			2		0			0	0	sm'h	e.	clear.
Bkt. Willie, S. 0° 05′, W. 28° 35′*†	30.04	763.0	83	28.3		sse.			5		8		sse.	sq'lls	sq'lls	r'gh	se.	cloudy.
Bk. Mohican, S. 6° 43′, W. 34° 00′	30.01	762.2	82	27.8		se.			6		7		ese.	1½h'r	1½h'r	h'vy	sse.	fine.
S. S. Olbers, Rio de Janeiro, Brazil	30.20	767.1	70.5	21.4	90	s.			3		8		s.	2 h'r	2 h'r	sm'h		dull.
H. M. S. Boadicea, Table Bay, Cape Colony	30.13	765.3	60	15.6		wnw.			6		7	wnw.						d. clouds.
Bg. John Wesley, S. 17° 01′, W. 35° 12′*†	30.12	765.0	77	25.0		ne.			1		5		n.	2 h'r	2 h'r	mod.	ssw.	squally.
District No. 3—North Pacific.																		
H. M. S. Audacious, Olga Bay, Siberia	29.72	754.9	60	15.6	82	calm			0		2	sw.				sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 13′, E. 125° 48′	29.82	757.4	70	21.1	95	n.			4-6		8					3	n.	squally.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.88	758.9	83.5	28.6	83	calm			0		8							d clouds.
H. M. S. Mutine, N. 5° 27′, W. 97° 00	29.93	760.2	77	25.0		s.			4		10					3	se.	overcast.
U. S. S. Tamega, Canton, China	29.80	756.8	85.6	29.8	76	s.			3		3			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.86?	758.4?	74	23.3	95	calm			0		8		ne.	0.13	3.3			cloudy.
U. S. S. Essex, Roze Island, Corea	29.85	758.2	71	21.7	90	nnw.			1		7					sm'h	n.	cloudy.
U. S. S. Hartford, N. 1° 50′, W 80° 42′*	29.83	757.7	76	24.4	91	ssw.			3		10			0	0	sm'h		cloudy
U. S. S. Monocacy, N. 37° 09′, E. 124° 29′	29.89	759.2	73	22.8	59	nnw.			3		10		calm.			mod.	n.	cloudy.
U. S. S. Palos, Hong Kong, China	29.82	757.4	82	27.8	83	calm			0		0							clear.
U. S. S. Pensacola, N. 19° 45′, E. 171° 40′ *	29.87	758.7	78	25.6	86	ene			1		5		ene.	light	light	light	nne.	fair.
U. S. S. Richmond, Yokohama, Japan	29.75	755.6	77	25.0	91	ene.			2		5		ene.	1.0	25.			fair.
S. S. Coptic, N. 46° 27′. W. 150° 25′	29.10	739.1	54.5	12.5	97	se.			7		10		se.	2 h'r	2 h'r	high	var.	raining.
S. S. Columbia, N. 38° 00′, W. 123° 04′ †	29.83	757.7	54.5	12.5	100	wnw.			4		0					light	nw.	clear.
S. S. Oregon, Columbia River, Oregon†	30.15?	765.8?	56	13.3	94	calm			0									foggy.
S. S. Willamette, Puget Sound, Wash. T†	30.03	762.7	56	13.3	100	ssw.			3		4		ssw.	0.08	2.0	0		
S. S. Ancon, N. 32° 42′, W. 117° 18′†	29.82	757.4	63	17.2	89	ese.			1		10					light	wsw.	foggy.
S. S. State of California, San Francisco, Cal †	29.89	759.2	55	12.8	100	calm			0		10							foggy.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.87	758.7	57	13.9	94	calm			0		2			0	0			foggy.
S. S. Victoria, off Balmas Bay, Cal †	29.92	760.0	58	14.4	88	nnw.			4		10					mod.	nnw.	foggy.
S. S. City of Pekin, N. 45° 00′, W. 103° 45′†	30.37	771.4	62	16.7	88	se.			5		5		s.	0	0	sm'h		fair.
S. S. City of Tokio, Hong Kong, China†	29.89	759.2	82	27.8	91	e.			1		2		e.	0	0			clear.
S. S. City of Rio de Janeiro, N. 29° 38′, E. 130° 25′ †	29.89	759.2	79	26.1	86	n.			2		2		ne.	0	0	mod.	ene.	clear.
S. S. Colima, N. 32° 10′, W. 118° 29′†	29.83	757.7	61	16.1	82	wnw.			4		10		nw.	0	0	mod.	nw	overcast.
S. S. Granada, Punta Arenas, Costa Rica †	29.87	758.7	80	26.7	82	calm			0		10?		e.	4 h'r	4 h'r	light	s.	clear?
S. S. San Blas, N. 29° 20′, W. 116° 42′ †	29.81	757.2	64	17.8		nw.			5		10		nw.	0	0	mod.	nw.	misty.
S. S. San Juan, N. 15° 32′, W. 96° 05′			80	26.7		wnw.			3		10 n		nnw.	6 h'r	6 h'r	r'gh	se.	overcast.
S. Armenia, N. 10° 10′, W. 117° 50′ *	29.82	757.4	81	27.2	87	ssw.			4		8			0	0	r'gh	sse.	cloudy
S. Storm King, N. 29° 28′, W. 124° 26′ *†	30.03	762.7				nnw.			5		7		nnw.	0	0	sm'h	nnw.	fine.
S. St. David, N. 43° 08′, W. 142° 38′ *†	29.92	760.0	62	16.7	88	s.			9		10		s.	1 h'r	1 h'r	h'vy	s.	raining.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.94	760.5	81.3	27.4	85	ese.			4		7							thund'r st'm
U. S. S. Iroquois, Callao, Peru	30.08	764.0	61	16.1	82	se.			2		10							cloudy.
U. S. S. Lackawanna, Arica, Peru*	30.01	762.2	62	16.7	77	calm			0		10							misty.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	59	15.0	88	se.			1		2		sse.					clear.
U. S. S. Wachusetts, Callao, Peru*	30.11	764.8	60	15.6	100	sse.			1		8		calm					cloudy.
S. S. City of Sydney, Sydney, N. S. W *†	30.28	769.1	60	15.6	71	ne.			1		7 k		ne.					cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. Zealandia, S 8° 11′, W. 168° 43′	29.97	761.2	81	27.2	91	ne.	.....	.....	6	.....	10	.....	.....	.....	.....	sm'h	.....	raining.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.05	763.3	66	18.9	.....	se.	.....	.....	1	.....	.....	.....	.....	0	0	mod.	se.	dense fog.
S. David Crockett, S. 44° 12′, W. 103° 59′*	29.66	753.4	46	7.8	80	nw.	.....	.....	2	.....	9	.....	.....	2 h'r	2 h'r	long	s.	gloomy.
S. Sovereign of the Seas, S. 30° 07′, W. 88° 09′*†	30.25	768.3	59	15.0	82	sw.	.....	.....	2	.....	5	.....	sw.	0	0	long	wsw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 19° 51′, E. 48° 53′	30.26	768.6	.....	.....	.....	n.	.....	.....	2	.....	9	ene.	.....	.....	.....	2	ene.	showery.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.05	763 3	82	27.8	59	se.	.....	.....	3	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.08	764.0	80	26.7	87	se	.....	.....	4	.....	2	ese.	.....	.....	.....	3	sse.	d. clouds
H. M S. Woodlark, Bassorah, Turkey	29.93	760.2	102.5	39.2	32	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, Batavia, Java	29.93	760.2	83	28.3	91	nne.	.....	.....	2	.....	2	.....	ne.	light	light	sm'h	.....	fair.
S. S. Galatia, N. 7° 38′, E. 75° 47′†	29.90	759.4	83	28.3	75	nw.	.....	.....	2	.....	7	.....	nw.	2 h'r	2 h'r	mod.	wnw.	showery.
S. S. Benledi, N. 8° 30′, E. 68° 30′*	29.88	758.9	82	27.8	81	nnw.	.....	.....	3–4	.....	5	.....	nw.	light	light	long	var.	fine.
Bk. Pilgrim, S. 32° 16′, E. 31° 20′*†	30.05	763.3	.....	.....	.....	nne.	.....	.....	6	.....	0	.....	.....	0	0	long	nne.	fine.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 19, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.10	764.6	78.4	25.8	81	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Roziere.
Algiers	.....	.....	30.15	765.7	77.0	25.0	74	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Galle	.....	.....	30.12	765.1	79.5	26.4	66	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	30.13	765.4	77.7	25.4	49	nw.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Delord.
Saida	.....	.....	30.18	766.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pérès.
Tebessa	.....	.....	30.18	766.6	77.0	25.0	54	n.	.....	.....	2	.....	3	.....	.....	0	0	pretty fair	St. Martin.
Geriville	.....	.....	.....	.....	87.8	31.0	9	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Forfert.
Laghouat	.....	.....	30.14	765.6	89.6	32.0	35	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.03	762.7	93.2	34.0	41	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia	.....	.....	30.24	768.1	51.1	10.6	84	w.	13	5.8	.....	.....	8 k	.....	.....	0.074	1.9	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.92	759.9	30.01	762.2	51.3	10.7	90	nnw.	4	1.8	.....	.....	8	.....	.....	0.18	4.6	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.2	30.03	762.7	71.6	22.0	56	e.	.....	.....	3	.....	4	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.3	30.06	763.6	59.9	15.5	67	nw.	2.5	1.1	.....	.....	10	.....	.....	0.492	12.5	.....	Dr. Wierzbiski
Eperies	29.20	741.6	30.07	763.8	56.8	13.8	90	calm	.....	.....	0	.....	10 n	.....	.....	0.642	16.3	.....	Julius Mikolik.
Gratz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Andreas Rospini.
Hermannstadt	28.47	723.0	29.85	758.1	68.0	20.0	55	s.	.....	.....	1	.....	3	.....	.....	0.307	7.8	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.79	731.3	30.11	764.9	61.9	16.6	80	e.	.....	.....	1	.....	3	.....	.....	0.650	16.5	.....	The Staff.
Lemberg	29.05	737.8	30.02	762.5	61.0	16.1	75	e.	.....	.....	4	.....	10	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Pola	29.87	758.6	29.98	761.4	75.7	24.3	47	ene.	.....	.....	5	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.48	748.7	29.92	760.0	73.4	23.0	82	s	.....	.....	3	.....	1	.....	.....	0.130	3.3	.....	Joseph Midlinszky, S. J
Szegedin	29.71	754.6	29.98	761.5	68.0	20.0	74	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	Karl Stu cel.
Trieste	29.96	760.9	30.06	763.4	76.1	24.5	38	ne.	.....	.....	1	.....	6	.....	.....	0	0	.....	Royal Academy.
Vienna	29.43	747.6	30.15	765.7	62.4	16.9	75	n.	.....	.....	1	.....	9	.....	.....	0.169	4.3	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.99	761.7	30.09	764.3	53.6	12.0	98	sse.	5	2.2	.....	.....	10	.....	.....	0.020	0.5	misty	W. Boswell.
Armagh, Observatory	29.82	757.4	30.04	763.0	61.7	16.5	79	se.	4	1.8	.....	.....	5	.....	.....	.....	.....	d. clouds	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.02	762.5	65.2	18.4	73	ese.	13	5.8	.....	.....	8	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.52	749.8	30.05	763.3	65.2	18.4	73	sse.	3	1.3	.....	.....	3	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.66	753.4	30.06	763.5	62.6	17.0	81	ne.	.....	.....	1	.....	2	.....	.....	0	0	blue sky	McLandsborough & Preston.
Bridgetown, Barbadoes	29.92	760.0	29.95	760.7	86.0	30.0	61	ne.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.97	761.2	30.08	764.0	73.4	23.0	59	se.	.....	.....	0.4	.....	3	.....	.....	.....	.....	d. clouds	John McLaren.
Chatham, School M. E.	29.94	760.5	30.11	764.8	72.4	22.4	53	s.	.....	.....	2	.....	2	.....	.....	.....	.....	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.74	755.4	29.97	761.2	62.2	16.8	89	ese.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.76	705.1	29.98	761.5	68.0	20.0	60	se.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.61	752.1	29.84	757.9	88.0	31.1	80	ne.	.....	.....	4	.....	6	.....	.....	.....	.....	drizzling	J. W. Smith.
Galway, Queen's College	29.86	758.4	29.89	759.2	63	17.2	83	e.	.....	.....	3	.....	7	.....	.....	0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	75.4	24.1	89	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.87	758.7	30.08	764.0	54.9	12.7	93	ene.	.....	.....	2	.....	.....	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.93	760.2	30.09	764.3	72.7	22.6	53	sse.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.75	755.6	30.04	763.0	67.0	19.4	74	se.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.04	763.0	30.08	764.0	71.5	21.9	60	sse.	13	5.8	.....	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Leicester, Museum	29.80	750.9	30.05	763.5	69.4	20.8	72	se.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	77.8	25.4	59	w.	.....	.....	3	.....	4	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.93	760.2	29.97	761.2	84.8	29.3	75	ne.	.....	.....	1	.....	5	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.85	758.2	30.08	764.0	64.0	17.8	82	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.91	759.7	29.98	761.5	67.2	19.6	81	e.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.01	762.2	30.11	764.8	53.4	11.9	90	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.78	756.4	29.84	757.9	80.0	26.7	59	wnw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.78	756.4	30.06	763.5	69.0	20.6	68	s.	.....	.....	1	.....	3	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.02	762.5	30.05	763.3	61.7	16.5	84	nw.	.....	.....	1	.....	10	.....	.....	0.115	2.9	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.00	762.0	65.0	18.3	71	s.	8	3.6	.....	.....	7	.....	.....	.....	.....	misty	W. O. Carlisle.
Strathfield Turgiss	.....	.....	.....	.....	67.0	19.4	79	se.	.....	.....	0.5	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.90	759.4	30.00	762.0	70	21.1	70	se.	.....	.....	4	.....	6	.....	.....	.....	.....	d. clouds	W. Newcomoe.
Valencia, Observatory	29.82	757.4	29.85	758.2	62.4	16.9	86	ese.	20	8.9	.....	.....	10	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.65	753.1	30.04	763.0	74.5	23.6	62	w.	17.4	7.8	.....	.....	4 n	.....	w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.17	766.3	30.21	767.3	60	15.6	94	sw.	3	1.3	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.14	765.5	30.18	766.6	57	13.9	64	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.10	766.1	30.23	767.8	51	10.6	86	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Cornwall, Ontario	30.16	766.1	30.36	771.1	44.3	6.8	93	nw.	.....	.....	1	1 cs	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.13	765.3	30.18	766.6	61.0	16.1	.....	w.	.....	.....	1	0	0	.....	.....	0	0	blue sky	H A. Johnson.
Edmonton, N. W. T	27.89	708.4	.....	.....	31	—0.6	48	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.23	767.8	30.25	768.3	53	11.7	80	w.	10	4.5	.....	2 k	hz.	calm	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.13	739.9	29.96	761.0	52	11.1	86	se.	26	11.6	.....	0	2 ks	.....	s.	0	0	fair	James Stewart.
Fredericton, N. B	30.24	768.1	30.30	769.6	55.0	12.8	75	nw.	6.0	2.7	.....	0	0	.....	.....	0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.23	767.8	30.29	769.4	59	15.0	67	n.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. Chipman Seeley
Granton, Ontario	29.23	742.4	30.35	770.9	49.0	9.4	85	e.	2	0.9	.....	.....	10 n	.....	.....	0	0	overcast	Jas. Grant.
Halifax, N. S*	30.11	764.8	30.24	768.1	56	13.3	67	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Allison.
Hamilton, Ontario	29.94	760.5	30.34	770.6	47.7	8.7	92	ne.	.....	.....	1	2 c	0	sw.	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.00	763.5	30.39	771.9	52	11.1	90	ne.	2	0.9	.....	5 cs	0	.....	.....	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.04	763.0	30.08	764.0	56.5	13.6	67	n.	.....	.....	6	4 k	0	n.	.....	0.031	0.8	d. clouds	C. H. Rigby.
London, Ontario	29.41	747.0	30.32	770.1	48.7	9.3	89	ne.	.....	.....	1	.....	10 n	.....	.....	inap.	inap.	overcast	E. B. Reed.
Medicine Hat	27.70	705.1	30.01	762.2	52	11.1	48	nw.	10	4.5	.....	0	0	.....	.....	0	0	blue sky	John Ewart.
Montreal, Quebec*	30.16	766.1	30.37	771.4	57	13.9	80	e.	1	1.8	.....	0	sk	.....	.....	0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.13	765.3	30.38	771.6	47.8	8.8	97	ssw.	.....	.....	.....	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.69	754.1	30.39	771.9	47	8.3	100	ne.	9	4.0	.....	2 cs	0	w.	.....	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.64	752.8	30.40	772.1	47.2	8.4	85	calm	.....	.....	0	0	0	.....	.....	0	0	hazy	Wm. O'Connor, M.A.
Port Dover, Ontario	29.63	752.6	30.33	770.4	50	10.0	93	ne.	7	3.1	.....	.....	10 cs	.....	nw.	0	0	cloudy	H Morgan.
Port Stanley, Ontario	29.64	752.8	30.29	769.4	52	11.1	86	e.	6	2.7	.....	2 k	5 n	b.	se.	0	0	cloudy	M. Payne.
Que Appelle, N. W. T	27.58	700.5	29.82	757.4	46	7.8	77	calm	0	0	.....	0	0	.....	.....	0	0	smoky	Leslie Gordon.
Quebec, Quebec*	29.98	761.5	30.34	770.6	55	12.8	93	s.	12	5.4	.....	hz.	0	.....	.....	0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.96	761.0	30.43	772.9	43	6.1	96	calm	0	0	.....	.....	fg	.....	.....	0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B	30.24	768.1	30.29	769.4	59	15.0	67	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	
St. John, N. B	30.14	765.5	30.28	769.1	56.2	13.4	92	w.	1	0.4	.....	0	0	.....	.....	0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.75?	755.6?	30.00?	762.0?	52	11.1	86	sw.	.....	.....	.....	0	0	.....	.....	0.18	4.6	clear	The Commandant.
Saugeen, Ontario*	29.62	752.3	30.35	770.9	48	8.9	89	se.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	
Stratford, Ontario	29.06	738.1	30.35	770.9	48.0	8.9	92	e.	5.5	2.5	.....	.....	10 s	.....	.....	0	0	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F	.....	.....	29.88	758.9	53.6	12.0	.....	n.	.....	.....	3	.....	.....	.....	.....	0	0	.....	The Commandant.
S. W. Point, Anticosti	30.05	763.3	30.08	764.0	49	9.4	89	n	2	0.9	.....	0	.....	.....	.....	0	0	clear	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	30.02	762.5	30.08	764.0	55	12.8	72	nw.	14	6.3			10 ks		nw.	0.06	1.5	fair	T. C. Hill, C. E.
Toronto, Ontario*	30.00	762.0	30.39	771.9	52	11.1	66	ne.	8	3.6		5 cs	5 s	w.		0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.32	744.7	30.41	772.4	44.7	7.1	99	n.	2.5	1.1		10 cs	0	se.		0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.22	767.6	30.28	769.1	53	11.7	90	calm	0	0		0	hz			0	0	hazy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.24	768.1	30.27	768.8	60.5	15.8	79	se.	15.8	7.1			10 ks			0	0	hazy	I. Garfelt.
Springbok Fontein	27.91	708.9			69	20.6	44									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	29.80	756.8	29.87	758.8	53.6	12.0	92	s.			0	1 c	0					clear	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.83	757.7	29.94	760.4	41.7	5.4	88	e.			4	2 c		e.		0	0		Federico Köhling.
Punta Caldera	29.91	759.6	29.99	761.8	55.0	12.8	79	nw.			5	6 c		sw.				fair	Manuel Tobar.
Punta Corona	30.16	766.0	30.35	770.8				w.			1	10 k		sw.		0.118	3.0	cloudy	Ignacio Ayala.
Valparaiso	30.00	761.9	30.14	765.5	54.3	12.4	83	sw.			2							fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.36	644.1																	A. Guelny.
Zi-Ka-Wei, near Shanghai	29.95	760.6	29.97	761.2	63.3	17.4	96	nw.	4.9	2.2			10 n			0.331	8.4	raining	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.99	761.7	30.04	762.9	63.1	17.3	68	nw.	11	5			3						Oversergent Fischer.
Fanoe	30.09	764.3	30.11	764.8	61.3	16.3	73	wnw.	9	4			6						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.31	769.9	30.35	771.0	45.7	7.6	62	e.	9	4			0						A. O. Thorlacius.
Thorshavn	30.23	767.9	30.26	768.5	47.7	8.7	96	ene.	16	7			5						Overloerer Bergh.
Vestervig	29.93	760.3	30.02	762.6	59.2	15.1	76	wnw.	9	4			2						Loerer Oesterbol.
Egyptian.																			
Cairo	29.78	756.5			86.4	30.2		ne.	4.3	1.9			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.41	747.0	30.03	762.8	81.0	27.2	36	se.			1	c		sw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.74	755.5	30.26	768.5	67.3	19.6	67	ne.			1				sw.	0	0		M. Nicot, Director.
Avignon, Normal School	29.95	760.6	30.02	762.6	78.8	26	55	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.7	30.10	764.4	69.8	21.0	43	se.			2	2 c				0	0	slightly cl'dy	M. Saillard, Director.
Beauvais, Normal School	29.84	757.9	30.10	764.5	67.6	19.8	67	se.			1		0			0	0	clear	M. Frère Eugène Marie.
Besançon, Normal School	29.22	742.1	30.10	764.6	74.1	23.4	56	ne.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.70	754.4	29.95	760.8	80.2	26.8	29	ese.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.53	750.1	30.06	763.6	75.2	24	59	ene.			1		k		ene.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.72	755.0	29.97	761.2	73.4	23.0	64	se.			2		4		se.	0	0	stormy	M. de Kermarès, Dir.
Caen, Normal School	29.97	761.2	30.05	763.3	74.1	23.4	54	se.			2		2		se.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.78	756.5	30.10	764.4	71.4	21.9	49	nw.			2		2		sw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.62	752.4	30.12	765.1	69.4	20.8	45	sse.			2		1			0	0	clear	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.72	729.4	30.02	762.6	73.4	23.0	49	n.			1	c				0	0		M. Alluard, Director.
Cluny, Normal School	29.23	742.5	30.08	763.9	70.5	21.4	57	ne.			1				ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744.2	30.15	765.7	65.8	18.8	56	e.			4		1	e.	e.	0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.59	700.7	30.02	762.6	73.4	23	48	s.			2		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.92	734.5	29.99	761.8	79.9	26.6	45	sw.			2		3		sw.	0	0		M. Klina, Director.
Grenoble. Normal School	29.29	743.9	30.03	762.8	71.6	22	61	ese.			1	ck		s.		0	0		M. Ablard, Directoor.
Guéret, Normal School	28.48	723.5	30.02	762.4	70.7	21.5	49	se.			1		1		se.	0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.69	754.1	29.97	761.1	74.5	23.6	48	se.			2		5		se.	0.543	13.8	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.38	746.2	30.01	762.2	82.9	28.3	63	se.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.02	762.4	30.12	765.0	74.1	23.4	74	se.			4		8	calm	se.	0.157	4.0	¾ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.04	737.6	30.08	763.9	67.1	19.5	69	nne.			1					0	0	misty	M. André, Director
Mans, Normal School	29.80	757.0	30.10	764.4	71.2	21.8		se.			4		2 ks		w.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.77	756.1	30.03	762.8	75.6	24.2	60	wsw.			2		2		wnw.	0	0		M. Stephan, Director.
Montlouis	24.91	632.7	29.75	755.7	64.4	18.0	44	sw.	11.2	5.0			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.3	29.98	761.6	79.2	26.2	60	n.			4		10			0	0	foggy	M. Galzin, Director.
Nantes, Observatory	29.88	758.9	30.04	763.0	76.8	24.9	48	e.			0-2	4 c;ck				0	0		M. Larocque, Director.
Perpignan, Observatory	29.93	760.3	30.04	763.0	75.9	24.4	44	se.	11.2	5.0			1	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.7			47.8	8.6		sw.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	28.99	736.4	30.02	762.5	75.9	24.4	44						0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.27	641.8			53.2	11.8	87	ese.			3		2			0.012	0.3		M. Alluard.
Rochefort, Naval Obs'y	29.93	760.3	29.97	761.1	76.3	24.6	49	se.			2		5		s.	0.08	2.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.4	29.98	761.6	74.5	23.6	60	se.			2		2	se.		0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.90	708.6	30.02	762.4	60.6	15.9	88	e.			1		1		ne.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.09	764.3	30.14	765.5	71.6	22	61	se			1		0			0.08	2.	clear	M. Mouillot, Dir.
Saint Maur, Observatory	29.95	760.6	30.11	764.8	71.2	21.8	43	e.			1					0	0		M. Renou, Director.
Toulouse, Observatory	29.33	744.9	30.05	763.3	82.4	28.0	39	se.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.87	758.8	30.05	763.3	73.4	23.0	48	ene.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.62	752.4	30.11	764.9	71.2	21.8	31	se.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.81	757.2	29.96	761.0	82.4	28.0	45	se.	7.8	3.5		4 c;ck			nw.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.74	730.0	30.18	766.5	61.5	16.4	56	e.			2		1	e.		0	0		Prof. Jnedt.
Bamberg	29.35	745.4	30.20	767.1	66.2	19.0	55	ne.			2		4 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.00	762.1	30.15	765.7	63.3	17.4	74	nw.			1		8			0	0		Dr. Lensch.
Breslau	25.62	752.3	30.15	765.8	60.3	15.7	66	w.			4		9			0.043	1.1		Royal University Obs'y.
Carlsruhe	29.71	754.6	30.17	766.2	60.8	16.0	79	ne.			1		0			0	0		Albert Senz.
Cassel	29.45	748.1	30.17	766.2	66.6	19.2	59	s.			1		5	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.80	756.8	30.15	765.9	65.8	18.8	52	e.			1		4			0	0		Physical Society.
Friedrichshafen	28.72	729.4	30.11	764.7	64.8	18.2	72	ne.			3		8	ene.		0	0		Wilhelm, Chief Tel.
Hamburg	30.06	763.5	30.15	765.8	62.1	16.7	70	nnw.			3		7	wnw.		0.094	2.4		E. Preiler.
Kiel	30.11	764.7	30.12	765.1	61.3	16.3	66	w.			2		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.75	755.7	30.17	766.3	63.1	17.3	58	nw.			1		7	nw.		0	0		H. Leppig, Asst.
Magdeburg	29.97	761.2	30.15	765.9	64.9	18.3	60	wnw.			2		7	w.		0	0		Weather Observatory.
Memel	29.92	760.0	29.97	761.2	62.2	16.8	77	nw.			5		7 k						Issermann.
Munich	28.33	719.5	30.20	767.1	60.8	16.0	64	n.			2		5	w		0.039	1.0		Central Station.
Neufahrwasser	29.99	761.8	30.01	762.2	62.2	16.8	74	nw.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.64	752.9	30.17	766.3	68.2	20.1	83	ne.			4		6	ne.		0	0		Dicknether.
Stuttgart	29.20	741.7	30.08	764.1	62.1	16.7	77	n.			1		1	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.08	764.0	30.10	764.6	57.9	14.4	86	sw.			4		5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.54	750.4	29.91	759.8	80.6	27.0		sw.			1.5		3 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.67	753.6	29.72	754.9	82.2	27.9	74	ssw.	19.0	8.5			7	ssw.	ssw.	0	0	d. clouds	
Deesa	29.22	742.2	29.69	754.0	89.2	31.8	47	ssw.	8.0	3.6			4	s.		0	0	d. clouds	
Bombay	29.78	759.4	29.82	757.4	82.3	27.9	73	w.	5.0	2.2			6	sw.		0	0	d. clouds	
Poona, Yarrowda	27.95	710.0	29.81	757.2	76.8	24.9	66	w.	23.0	10.3			8		wnw.	0	0	d. clouds	
Trichinopoly	29.51	749.6	29.79	756.6	95.1	35.1	39	w.	0.4	0.2			4			0.03	0.8	d. clouds	
Bellary	28.27	717.9	29.70	754.4	89.8	32.1	37	w.	12.0	5.4			9	se.		0	0	d. clouds	
Belgaum	27.30	693.3	29.85	758.2	71.6	22.0	81	w.	6.0	2.7			10	e.	w.	0.02	0.5	d. clouds	
Lahore	28.91	734.3	29.63	752.7	90.4	32.4	48	calm	0	0			0			0	0	blue sky	
Roorkee	28.72	729.6	29.60	751.8	88.8	31.6	67	calm	0	0			0			0	0		
Agra	29.09	739.0	29.64	752.8	94.9	34.9	32	nw.	2.0	0.9			2		nw.	0	0	d. clouds	
Nagpur	28.60	720.4	29.62	752.4	84.4	29.1	72	calm	0	0			7		w.	0.02	0.5	d. clouds	
Jubbulpore	28.34	719.7	29.68	753.8	82.8	28.2	76	n.	6.0	2.7			10		nw.	0	0	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.29	744.0	29.66	753.4	81.2	27.3	85	calm	0	0			10			0	0	overcast	
Allahabad	29.34	745.2	29.65	753.2	80.7	27.1	96	calm	0	0			10			1.27	32.3	gloomy	
Patna	29.48	748.8	29.67	753.5	77.3	25.2	93	s.	2.6	1.2			10	s.	s.	1.30	33.0	overcast	
Hazaribagh	27.66	702.5	29.66	753.4	76.5	24.7	93	calm	5.7	2.6			10			1.45	36.8	thud'r storm	
Cuttack	29.57	751.1	29.65	753.2	85.5	29.7	77	nne.	2.0	0.9			5			0	0	d. clouds	
Calcutta, Alipore	29.66	753.4	29.69	754.0	82.8	28.2	87	ese.	2.5	1.1			8		s.	0	0	d. clouds	
Dhubri	29.56	750.7	29.67	753.6	81.7	27.6	87	calm	3.5	1.6			10			0.05	1.3	gloomy	
Chittagong	29.64	753.0	29.74	755.3	81.0	27.2	88	ssw.	3.8	1.7			8			0	0	d. clouds	
Sibsagar	29.37	746.0	29.70	754.5	78.1	25.6	95	se.	2.0	0.9			10			0.70	17.8	raining	
Jeypore	28.26	717.8	29.67	753.5	91.7	33.2	38	nw.	5.2	2.3			4		nw.	0	0	d. clouds	
Zanzibar	30.08	764.0			83.0	28.3	79	sse.	3.0	1.3			1	se.		0	0	d. clouds	
ITALIAN.																			
Udine	29.63	752.6	30.03	762.7	75.4	24.1	41	e.	0.7	0.3			2			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.4	30.05	763.3	75.2	24.0	58	se.	4.9	2.2			5	se.		0	0		Prof. Dott. Lorenzoni.
Padua	29.92	760.0	30.03	762.7	74.8	23.8	41	ne.	4.3	1.9			0			0	0		Prof. F. F. Denza.
Moncalieri	29.12	739.7	30.01	762.3	72.0	22.2	58	s.	1.8	0.8			0			0	0		Prof. G. M. Garibaldi.
Genoa	29.79	756.6	29.97	761.3	76.3	24.6	47	sw.	2.5	1.1			10			0	0		Prof. D. C. Bruno.
Mondovi	28.15	715.0	30.03	762.8	69.1	20.6	40	n.			2		0			0	0		Prof. Luigi Guidi.
Pesaro	29.97	761.3	30.02	762.5	70.9	21.6	70	n.	11.9	5.3			1	nw.		0	0		Prof. Costantino Pittet.
Florence	29.74	755.4	29.99	761.8	77.9	25.5	36	ne.			4		7			0	0		Prof. P. Monte.
Leghorn	29.87	758.6	29.95	760.7	73.9	23.3	71	w.	0	0			0			0	0		Prof. P. Tacchini.
Rome	29.75	755.6	29.92	759.9	77.7	25.4	44	nne.	1.8	0.8			3			0.118	3.0		Prof. C. de Giorgi.
Lecce	29.63	752.5	29.88	758.9	70.9	21.6	65	nw.	2.5	1.1			8	nw.		0.807	20.5		Prof. D. Conti.
Cosenza	29.04	737.7	29.91	759.7	69.1	20.6	68	wsw.	2.5	1.1			9	w.		0	0		Prof. A. Pacinotti.
Cagliari	29.80	757.0	29.99	761.8	77.0	25.0	46	nw.			2		4	ne.		0.067	1.7		Prof. G. Caccciatore.
Palermo	29.75	755.7	30.00	761.9	73.6	23.1	63	wnw.	11.2	5.0			6	wnw.		0.039	1.0		Sig. Vincenzo Giuliano
Syracuse	29.89	759.1	29.93	760.2	79.7	26.5	63	e.	3.1	1.4			9	wsw.					
Sub-series.																			
Naples, S. R	29.43	747.4	29.93	760.3	71.4	21.9	72	ene.	0.7	0.3			9	w.		0.189	4.8		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.78	756.4	29.82	757.4	59.4	15.2	98	calm			0	9c;cs	0	w.		0.268	6.8	cloudy	H. Hattori.
Awomori	29.75	755.6	29.78	756.4	58.3	14.6	86	sw.	inap.	inap.		0	3 ck		w.	0.013	0.3	fair	K. Ogawa.
Hamamatsu	29.08	753.9	29.78	756.4	72.5	22.5	94	ne.			2	3 ck	4 s	e.	e.	1.886	47.9	fair	Sekigawa & Yamazaki.
Kagoshima	29.74	755.5	29.76	755.8	76.7	24.8	76	wsw.			2		10 s		s.	0	0	overcast	G. Miyanonaza.
Kanazawa	29.70	754.3	29.80	756.8	67.0	19.4	92	calm	0	0			10ks;ck			1.482	37.6	cloudy	S. Endo.
Kioto	29.57	751.1	29.74	755.5	70.6	21.4	74	nnw.	1.4	0.6			10s;ks		sw.	1.132	28.7	cloudy	M. Tojima.
Kochi	29.72	755.0	29.74	755.5	75.0	23.9	90	w.	7.2	3.2			10 n			0.88	22.4	raining	K. Kusunose.
Miasaka	29.72	754.9	29.75	755.6	76.0	24.4	83	sw.			1		10 s		sw.	0.040	1.0	cloudy	K. Masusaki.
Miyako	29.66	753.3	29.77	756.1	67.2	19.0	86	ene.	0.2	0.1			10 s			0.004	0.1	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.56	750.8	29.76	755.9	66.6	19.2	98	nne.	2.4	1.1			10 n			2.190	55.6	raining	S. Takehayasu.
Niigata	29.77	756.1	29.80	756.9	70.3	21.3	64	ne.	5.0	2.2			10 s		n.	0.715	18.2	covered	Satoo & Tomikawa.
Nobiru	29.73	755.2	29.75	755.6	68.1	20.1	84	n.	8.6	3.8		5 ck	3 s	s.		0.235	6.0	fair	Yoslino & Midzushina.
Numazu	29.74	755.4	29.78	756.3	72.7	22.6	91	calm			0	5 ck	5 s		s.	0.472	12.0	cloudy	R. Kaneda.
Osaka	29.72	754.9	29.74	755.3	71.8	22.1	72	ne.	11.2	5.0		6 cs	2ck;s		s.	1.250	31.7	cloudy	H. Omura.
Sakai	29.81	757.1	29.82	757.3	69.7	20.9	65	ne.			2		10 n		nne.	0.846	21.5	raining	Yamawchi&Sakamoto.
Shimonoseki	29.68	753.9	29.83	757.6	62.4	16.9	98	calm			0		10 n			2.449	62.2	raining	S. Sakano.
Tokei Obs'y, Yeddo	29.70	754.3	29.77	756.1	75.2	24.0	79	s.	10.2	4.6			10ks;s		s.	0	0	cloudy	The Staff.
Wakayama	29.66	753.4	29.71	754.7	76.4	24.7	69	calm	0	0			10s;ck		w.	1.746	44.3	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.04	763.0	30.23	767.8	73.4	23.0	66	ese.	24.0	10.7		0	2 k;ks		ese.	0.04	1.0	clear	The Staff.
MEXICAN.																			
Leon	24.27	616.4	29.93	760.2	59.0	15.0	89	nne.	0.9	0.4		6 c	4 k	ne.		0	0	covered	Prof. M. Leal.
Mazatlan	29.61	752.0	29.86	758.5	80.0	26.7	82	nne	0.9	0.4		0	1 ks			0.197	5.0	clear	F. Quijano, C. E.
Sub-series.																			
Altata					73	22.8	97	se.			1	1 c	1 k	e.	s.	1.60	40.6		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.17	766.2	30.17	766.2	66.7	19.3		ese.			3					0.008	0.2		
Groningen	30.13	765.3	30.19	766.7	60.1	15.6		w.			1					0	0		
Helder	30.18	766.5	30.18	766.5	63.1	17.3		sse.			1					0	0		
Hellevoetsluis	30.19	766.7	30.19	766.7	64.2	17.9	75	ese.			1					0	0		
Utrecht	30.15	765.8	30.20	767.0	66.0	18.9	69	ese.			2		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.5			79.3	26.3	76	ne.	0	0			3			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.01	762.3	30.08	763.9	55.0	12.8	68	nnw.	4.9	2.2			8			0.059	1.5		
Brono	29.87	758.6	29.91	759.6	45.3	7.4	77	nnw.			6		8			0.512	13.0		
Christiania	29.83	757.6	29.97	761.3	59.9	15.5	58	sse.	9	4			10			0	0		
Gjessvær	29.87	758.8	29.90	759.4	35.2	1.8		ene.			2		5					hailing	
Lodingen	29.75	755.7	29.80	756.9	43.2	6.2	74	n.			4		8			0.043	1.1		
PORTUGUESE.																			
Angra, Azores					70.5	21.4	84	wnw.	11.2	5.0			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.04	762.9	30.12	765.1	77.0	25.0	76	wsw.	2.5	1.1			2			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.71	754.5	30.04	762.9	68.4	20.2	87	ssw.	12.5	5.6			10			0.059	1.5		The Staff.
Ponta Delgada, Azores	30.07	763.7	30.14	765.5	73.8	23.2	59	nw.	6.9	3.1			4			0	0		
Saint Paul de Loando	29.79	756.6	29.99	761.7	73.2	22.9	91	ene.			2		10			0	0		
San Salvador, Congo	28.15	714.9	29.98	761.4	79.3	26.3	57	wsw.			1		8						
Serra da Estrella	25.35	643.9	29.93	760.3	63.7	17.6	60	sse.	8.1	3.6			8			0	0		
RUSSIAN.																			
Akmolinski	29.05	737.9	30.13	765.2	56.1	13.4	29	calm	0	0		0	0			0	0		Major K. Lasarew.
Archangel	29.39	746.5	29.41	747.0	53.8	12.1	91	ssw.	9	4			10			0.535	13.6	thund'r st'm	Capt. Sseliwerstow
Ashurada	30.18	766.5	30.08	764.1	74.1	23.4	77	wsw.	27	12			9 ku			blank	blank		
Astrakhan	30.25	768.4	30.18	766.6	73.8	23.2	40	s.	2	1		0	3 k			0	0		Capt. Wisganow.
Baku	30.19	766.7	30.14	765.5	71.1	21.7	54	n.	18	8		0	0			0.079	2.0		
Barnaul	29.65	753.2	30.17	766.2	43.0	6.1	52	sw.	2	1			10			0	0		Meteorological Obs'y
Bielosersk	29.17	740.8	29.61	752.1	68.0	20.0	61	ssw.	13	6		7 ck	0			0.437	11.1		
Dorpat	29.50	749.4	29.74	755.4	56.8	13.8	78	wnw.	11	5			10 ks			0	0		Observatory.
Ekaterinburg	29.00	736.7	29.94	760.5	60.1	15.6	47	n.	22	10			10			0	0	solar halo	Meteorological Obs'y.
Elisawetgrad	29.03	752.5	30.00	763.4	77.9	25.5	23	se.	4	2		0	3 k			0	0		
Irkutsk	28.48	723.3	30.18	766.5	33.4	0.8	92	nnw.			1		8			0.008	0.2		
Kasalinsk					66.6	19.2	33	n.	9	4			9 n						
Kasan	29.76	755.8	30.02	762.4	68.5	20.3	37	sse.	13	6		0	2 k			0	0		Observatory.
Kem	29.32	744.7	29.37	746.0	55.2	12.9	77	wsw.	4	2		0	5 k			0.220	5.6		
Kertch	29.97	761.2	29.99	761.8	69.8	21.0	71	ene.	4	2		5 c	0			0	0		Lagorio & Sustyrea.
Kieff	29.35	745.5	29.50	760.9	74.5	23.6	35	s.	13	6		0	8 k;ks			0	0		Observatory.
Koslov	29.54	750.4	30.04	762.9	69.8	21.0	41	ssw.	4	2		0	2 k			0	0		
Liban	29.90	759.4	29.92	760.0	61.0	16.1	69	nw.			6		3			0.390	9.9		E. Quaas.
Lugan	29.84	757.9	30.04	762.9	76.8	24.9	27	nw.	9	4			1			0	0		Meteorological Obs'y
Moscow	29.45	748.0	29.90	759.4	71.4	21.9	35	wnw.	9	4		0	2 k			0	0		Meteorological Obs'y
Nikolaiev	29.94	760.4	30.01	762.2	78.8	26.0	34	se.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					48.6	9.2	95	calm	0	0		0	7 k						Iwanow.
Pekin, China	29.78	756.5	29.93	760.1	64.6	18.1	73	s.	3.4	1.5		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.75	755.6	30.09	764.2	76.1	24.5	17	ne.	1.1	0.5		4 cs	0			0	0		
Petrozavodsk	29.30	744.3	29.50	749.2	57.6	14.2	82	sw.	11			0	1 s			0.028	0.7		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.48	748.7	29.97	761.1	60.6	15.9	93	nw.	4	2		10 n				0.185	4.7	raining	
Poti	29.92	759.9	29.95	760 7	81.7	27.6	76	nw.	4	2		0	0			0	0		
St. Petersburg	29.59	751.6	29.61	752 2	54.9	12.7	91	nw.	7	3			10 n			0.177	4.5		Central Physical Obs'y.
Samarkand	27.61	701.4	30.01	762.2	71.1	21.7	44	calm	0	0		0	0			0	0		
Semipalatinsk	29.63	752.5	30.29	769.4	52.7	11.5	37	calm	0	0			2			0	0		Major Lasarew
Sevastopol	29.69	754.0	29.89	759.2	75.[illegible]	24.2	45	wnw.	20	9		0	1 s			0	0		
Staroi Bykhov	29 34	745.3	29.87	758.7	74.8	23.8	34	s.	29	13			9			0	0		
Tashkend Laboratory	28 39	721.0	29.99	761.8	75.4	24.1	35	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.69	728.6	30.06	763.4	73.4	23.0	49	se.	4	2		0	2 ks			0	0		Physical Observatory.
Vernoe	27.53	699.2	29.98	761.4	63.3	17.4	40	calm	0	0		0	0			0	0		
Viatka	29.26	743.1	29.87	758.6	64 2	17.9	59	sw.	7	3			4			0	0		
Warsaw	29.63	752.7	30.06	763.4	58.1	14.5	74	w.	11	5		0	8 ks			0	0		Astronomical Obs'y.
Yeniseisk	29.66	753.4	29.96	760.9	35.4	1.9	90	w.	7	3			10			0.035	0.9	snowing	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.91	759.7	30.01	762.3	76.3	24.6	70	sw.	3.6	1.6		0	1			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	29.87	758.8	29.93	760.3	88.7	31.5	34	se.	1.8	0.8		3	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.11	688.5	29.94	760.4	76.5	24.7	43	sw	2.5	1.1			6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707 3	29.96	760.9	83.5	28.6	27	sw.	10.5	4.7		5	0	sw.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.91	759.6	30.02	762.6	84.6	29.2	51	sse.	2.9	1.3		3	1	e.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29 13	739.9	29.89	759.2	68.9	20.5	71	n.	5.4	2.4		8 n	4 k	e.	e.	0.185	4.7	cloudy	Prof. L. G. Fradas.
Santiago, Met. Obs'y	28.93	734.7	29.80	756.8	66.9	19.4	89	s.	15.0	6.7			10			0.067	1.7	sprinkling	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.89	759.2	29.95	760.8	77.4	25.2	85	se.	1.1	0.5		1 cs	1 k	sw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.5	77.0	25.0	96	sw.	26.4	11.8			10 n			0.197	5.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	762.0	30.10	764.4	73.6	23.1	74	s.	6.6	3.0		1	2	sw.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.93	760.2	30.02	762.5	79.2	26.2	97	se.	7.6	3.4		5 cs	3 k	se.	se.	0.669	17.0	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.64	752.8	29.68	753.8	42.5	5.8	64	n			6		5			0	0		
Umea	29.71	754.6	29.76	755.9	52.9	11.6	53	nw.			4		7			0.079	2.0		
Hernosand	29.79	756.6	29.84	757.9	54.0	12.2	48	nw.			6		3			0	0		
Stockholm	29 76	755.9	29.94	760.4	56.1	13.4	49	nw.			4		1			0	0		
Wisby	29.87	758.8	29.93	760 3	57.2	14.0	71	nw.			4		5			0.492	12.5		
Sub-series.																			
Upsala	29.84	757.9	29.93	760.3	55.4	13.0	54	nw.	8.1	3.6			3	nw.	nw.	0.031	0.8		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.71	729.1	30.11	764.7	62.6	17.0	73	n.			2		9			0	0	covered	The Observatory.
Turkish.																			
Constantinople			29.89	759.3	75.2	24.0	62	ne.	9	4.0			8		ne.	0	0		The Observatory.
Valona			30.04?	763.1?	76.6	24.8		sw.			1		10			0.67	17.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	759.9	81.9	27.7	66	nw.			2		9 k		ne.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.33	770.4	30.41	772.4	55	12.8	69	n.	3	1.3		0	sk.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.67	753.6	30.32	770.1	44	6.7	93	calm	0	0		4 c	fg.	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635.0	29.80	756.9	52	11.1	80	e.	1	0.4		0	0			0.11	2.8	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.22	691.4	30.08	764 0	51	10.6	86	sw.	16	7.2			10 s		sw.	inap.	inap.	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.13	765.3	65.5	18.6	93	e.	10	4.5			10 s			0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.26	768.6	30.27	768.8	64	17.8	68	ne.	21	9.4		5 c	0			inap.	inap.	fair	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	70.0	21.1	84	n.	7	3.1			10 s		n.	0.11	2.8	cloudy	D. J. Young.
Baltimore, Maryland	30.27	768.8	30.32	770.1	60	15.6	75	ne.	8	3.6			9 s			0	0	cloudy	Geo. W. Fisher.
Barnegat City, New Jersey	30.28	769.1	30.30	769.6	65.0	18.3	68	e.	24	10.7		3 c	0	e.		0.02	0.5	clear	G. A. Hill.
Behring Id., Behring Sea	29.93	760.2	29.95	760.7	48.5	9.2	97	s.	18	8.0			fg.			0.56?	14.2?	foggy	Geo. Chernick.
Bennett, Fort, Dakota	28.36	720 3	29.95	760.7	50.0	10.0	86	nw.	2	0.9		0	2 s			0.08	2.0	clear	A. Pritchard.
Benton, Fort, Montana	27.43	696.7	30.27	768.8	50	10.0	66	w.	16	7.2			10 s		w.	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.14	714.7	29.94	760.5	55	12.8	80	se.	8	3.6		0	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.31	769 9	30.34	770.6	60.5	15.8	81	ne.	16	7.2		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.08	687.8	29.85	758.2	47	8.3		nw.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.20	767.1	30.35	770.9	55.0	12.8	74	nw.	5	2.2		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	76.0	24.4	97	calm	0	0		1ck;cs	0	w.		0	0	cloudy	E. C. Imlay.
Buffalo, New York	29.59	751.6	30.32	770.1	52.4	11.3	76	ne.	5	2.2		5 cs	sk.	sw.		0	0	fair	Wm. Finn.
Buford, Fort, Dakota	27.91	708.9	29.89	759.2	47	8.3	86	nw.	4	1.8		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.69	754.1	30.09	764.3	64.6	18.1	86	n.	6	2.7		0	5 s			0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	30.06	763 5	30.26	768.6	51.0	10.6	87	ne.	3	1.3		0	1 s		ne.	0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	68.0	20.0	84	ne.	25	11.2			10 ks		ne.	0.29	7.4	cloudy	A. K. Alderson.
Cape May, New Jersey	30.24	768.1	30.27	768.8	64.0	17.8	78	ne.	8	3.6		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.21	741.9	29.89	759.2	56	13.3	80	nw.			2	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	77.5	25.3	88	ne.	7	3.1		1 c	0	sw.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	73.0	22.8	100	ne.	10	4.5			10 s		ne.	0.55	14 0	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.31	744.5	30.15	765.8	61.0	16.1	93	ne.	8	3.6			10 n		ne.	0.08	2.0	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	66.0	18.9	93	ne.	5	2.2			10 n		se.	0.46	11.7	light rain	B. L. Gouldin.
Cheyenne, Wyoming	24.08	611.6	29.94	760.5	45.7	7.6	39	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.48	748 8	30.17	766.3	61.0	16.1	86	e.	6	2.7		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	65	18.3	78	e.	15	6.7		7 ck	0	sw.		0.66	16.8	fair	C. F. Dickens.
Cincinnati, Ohio	29.49	749.0	30.14	765.5	64.0	17.8	78	ne	1	0.4		7 ck	0	w.		0	0	fair	L. Dunne.
Cleveland, Ohio	29.51	749.5	30.23	767.8	59	15.0	62	se.	6	2.7			10 s		se.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.33	745.0	30.17	766.3	62	16.7	78	se.	6	2.7			10 s		sw.	0	0	cloudy	D. Cuthbertson
Concho, Fort, Texas	28.05	712.5	29.95	760.7	68.2	20.1	61	ne.	6	2.7			10 s			0	0	cloudy	J. McGlone.
Custer, Fort, M. T	27.00	685.8	30.02	762.5	51	10.6	74	n.	9	4.0		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.49	749.0	30.14	765 5	54	12.2	86	e.	6	2.7		6 cs	fg.	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	29.85	758.2	61	16.1	90	se.	4	1.8			10 s		se.	0.10	2.5	cloudy	J. Williams.
Dayton, Washington T'y	28.56	725.4	30.31	769.9	32.5	0.3	85	ne.	2	0.9		0	0			0.07	1.8	clear	D. Moore.
Deadwood, Dakota	25.37	644 4	29.93	760.2	47	8.3	86	nw.	6	2.7		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.24	768.1	30.20	768.6	65	18.3	73	ne.	28	12.5		5 c	0	ne.		0.11	2.8	fair	T. S. Townsend.
Denver, Colorado	24.79	629.7	29.90	759.4	53.0	11.7	56	se.	9	4.0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.23	742.4	30.12	765.0	54	12.2	80	se.	3	1.3		10 cs	0	nw.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.24	768.1	58.0	14.4	86	e.	7	3.1		8 cs	0	se.		0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.38	695.4	29.94	760.5	61	16.1	93	se.	7	3.1			10 s		sw.	0.14	3.6	cloudy	J. H. Bryce.
Dubuque, Iowa	29.48	748.8	30.18	766.6	51.5	10.8	80	e.	1	0.4		5 c	0	nw.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.21	767.3	50	10.0	93	calm	0	0		7 c;cs	0	ne;n.		0	0	fair	N. B. Conger.
Eastport, Maine	30.20	767.1	30.28	769.1	56.0	13.3	74	nw.	9	4.0		0	hz.			0	0	clear	D. C. Murray.
Elliott, Fort, Texas	27.26	692 4	29.95	760.7	58	14.4	85	s.	2	0.9			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.20	665.5	29.85	758.2	61.0	16.1	100	ne.	12	5.4			10 n		ne.	1.92	48.8	light rain	J. O'Dowd.
Erie, Pennsylvania	29.57	751.1	30.28	769.1	57	13.9	74	e.	3	1.3		8 cs	0	sw.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.65	753.1	30.31	769.9	48.2	9.0	100	n.	4	1.8			fg.			0	0	dense fog	George Heathcote.
Galveston, Texas	29.91	759.7	29.95	760.7	81	27.2	79	calm	0	0		3 cs	4 ks		s.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.56	750.8	30.22	767.6	50.0	10.0	90	e.	6	2.7		1 ck	0	e.		0	0	clear	Wm. H. Fallon.
Grant, Fort, Arizona	25.18	639.6	29.78	756.4	55	12.8	88	nw.	1	0.4		0	0			0.03	0.8	clear	Chas. A. Read.
Hatteras, North Carolina	30.04	763.0	30.05	763.5	73.0	22.8	90	ne.	30	13.4			10 n		e.	0.68	17.3	light rain	R. M. Crawford.
Helena, Montana	25.83	656.1	30.00	762.0	51	10.6	48	sw.	7	3.1		9 k	0	w.		0	0	cloudy	I. H. Jones.

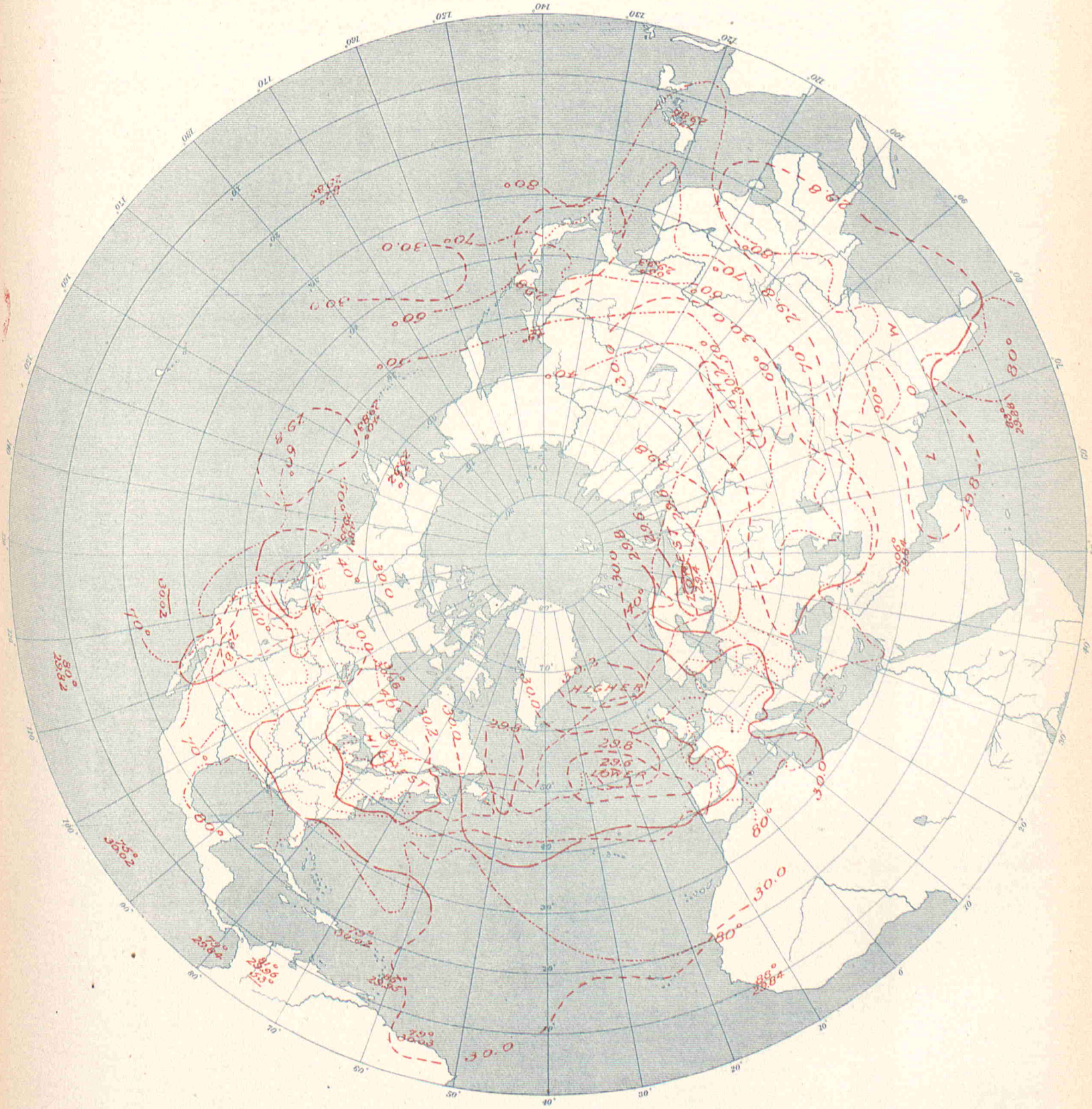
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.60	726.4	29.98	761.5	54.7	12.6	87	se.	9	4.0			10 s		s.	0.04	1.0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.34	715.2	30.12	765.0	57.0	13.9	80	ne.	2	0.9		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.90	759.4	29.94	760.5	80.0	26.7	80	se.	6	2.7		2 cs	1 ks	w.		0	0	clear	I. A. Reed.
Jacksonville Florida	29.97	761.2	30.01	762.2	72.5	22.5	94	e.	4	1.8		1 k	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.48	748.8	30.13	765.3	58.0	14.4	80	e.	6	2.7		4 k	0	e.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.91	759.7	29.93	760.2	82	27.8	74	ne.	5	2.2		2 cs	4 ks	sw.	ne.	0.02	0.5	fair	A. W. Browne.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	71	21.7	87	ne.	29	13.0			10 ks		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.09	738.9	30.11	764.8	64.2	17.9	91	ne.	3	1.3		4 ck	0	s.		0.40	10.2	fair	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.19	766.8	52	11.1	72	ne.	2	0.9		2 c	3 s	n.		0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.18	741.2	30.06	763.5	55	12.8	80	calm	0	0		10 cs	0			0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.43	747.5	30.26	768.6	39.0	3.9	89	se.	1	0.4		0	0			0.03	0.8	clear	C. E. Butler.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	61	16.1	93	calm	0	0			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.45	748.0	29.84	757.9	61	16.1	93	calm	0	0			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.07	763.8	64	17.8	84	ne.	6	2.7		0	sk.			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.57	751.1	30.25	768.3	58	14.4	90	ne.	5	2.2			10 n		ne.	1.27	32.3	light rain	Lou's Duane.
Mackinaw City, Michigan	29.69	754.1	30.34	770.6	50.4	10.2	83	se.	1	0.4		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.07	763.8	30.08	764.0	73.0	22.8	97	ne.	16	7.2			10 s		ne.	0.49	12.4	cloudy	William Daly.
Maginnis, Fort, Montana	25.73	653.5	30.13	765.3	48	8.9	71	nw.	17	7.6			10 s		nw.	0	0	cloudy	F. Burke.
Marquette, Michigan	29.59	751.6	30.31	769.9	44.9	7.2	90	calm	0	0		3 c	0	s.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.71	754.0	30.05	763.3	60	15.6	93	ne.	2	0.9			fg.			0	0	dense fog	D. T. Flannery.
Milwaukee, Wisconsin	29.49	749.0	30.23	767.8	58	14.4	86	e.	11	4.9		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.96	761.0	30.00	762.0	69.6	20.9	84	nw.	5	2.2		0	hz.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.80	756.9	30.03	762.7	71.5	21.9	86	e.	5	2.2		0	1k;fg			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.05	737.9	30.04	763.0	42	5.6	82	se.			2	0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	24.21	614.9	30.36	771.1	45.0	7.2	76	n.	7	3.1		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.05	763.3	59.0	15.0	96	e.	1	0.4			fg.			inap.	inap.	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	30.23	767.8	30.34	770.6	53	11.7	72	ne.	10	4.5		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.33	770.4	30.38	771.6	56	13.3	74	n.	3	1.3		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	75.0	23.9	90	se.	1	0.4			fg.			0	0	dense fog	M. Herman.
New York, New York	30.17	766.3	30.34	770.6	60	15.6	65	n.	8	3.6		0	0			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.16	766.1	30.18	766.6	67.5	19.7	100	ne.	10	4.5			10 n		ne.	0.08	2.0	light rain	Wm. Davis.
North Platte, Nebraska	27.04	686.8	29.92	760.0	52.6	11.4	78	calm	0	0		0	fg.			0.03	0.8	dense fog	E. F. Brady.
Olympia, Washington T'y	30.28	769.1	30.32	770.1	40.0	4.4	89	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.90	734.0	30.07	763.8	58.0	14.4	80	se.	1	0.4		0	8 s		s.	0	0	cloudy	A. Pollak.
Oogliamie, Alaska																			P. H. Ray.
Oswego, New York	30.05	763.3	30.37	771.4	52.0	11.1	86	se.	4	1.8		7 c	0			0	0	fair	J. G. Linsley
Palestine, Texas	29.46	748.3	30.01	762.2	64.0	17.8	84	n.	10	4.5		5 cs	0	nw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	71.8	22.1	67	n.	3	1.3		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.22	767.6	30.32	770.1	58	14.4	90	ne.	11	4.9		3 c	0	w.		inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	18.00	457.2	29.98	761.5	25	−3.9	73	w.	20	8.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.46	748.3	30.25	768.3	60.3	15.7	70	calm	0	c			10 s		ne.	0	0	cloudy	G. O. Schaeffer.
Poplar River, Montana					51	10.6	47	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.58	751.3	30.25	768.3	52.3	11.3	86	e	8	3.6			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.29	769.4	30.34	770.6	60	15.6	65	n.	4	1.8		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.18	766.6	30.25	768.3	46.0	7.8	74	n.	4	1.8		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C																			F. P. Chaffee.
Prescott, Arizona	24.74	628.4	29.84	757.9	55	12.8	72	w.	1	0.4		4 k	0			0	0	fair	N. D. Lane.
Provincetown, Mass	30.30	769.6	30.33	770.4	61.5	16.4	75	n.	5	2.2		0	hz.			0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.50	749.3	29.85	758.2	70	21.1	28	n.	20	8.9		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.62	752.3	30.17	766.3	42.2	5.7	89	e.	3	1.3		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.72	754.9	29.79	756.7	62.5	16.9	62	nw.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.48	748.8	30.09	764.3	61.0	16.1	90	n.	6	2.7		3 k	sk.	e.		0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.89	759.2	29.92	760.0	37	2.8	85	ne.	4	1.8			10 s			0.21	5.3	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.31	744.5	30.16	766.1	51.0	10.6	66	se.	4	1.8		9 cs	0	sw.		0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.12	739.6	29.99	761.7	48	8.9	93	se.	5	2.2		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.63	651.0	29.88	758.9	61	16.1	41	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.76	755.9	29.83	757.7	64.0	17.8	78	s.	5	2.2			10 s		s.	0	0	cloudy	F. R. Day.
Sanford, Florida	29.91	759.7	29.96	761.0	74.5	23.6	94	ne.	1	0.4		0	fg.			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.56	750.8	30.23	767.8	62	16.7	70	se.	10	4.5		5 cs	4 s	se.	se.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.30	769.0	30.33	770.4	59.0	15.0	75	ne.	22	9.8		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.74	755.4	29.81	757.2	57.5	14.2	86	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.96	761.0	30.05	763.3	72	22.2	90	n.	10	4.5			10 ks		n.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	20.52	673.6	30.12	765.0	46	7.8	63	sw.	8	3.6		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.77	756.1	30.01	762.2	65.0	18.3	84	ne.	2	0.9			10 s		ne.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.79	731.3	30.01	762.2	64	17.8	68	calm	0	0		0	5 s		w.	0	0	fair	W M. Mattingly.
Sitka, Alaska	29.90	759.4	29.96	761.0	48	8.9	82	e.	14	6.3			10 ks		e.	0.57	14.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.07	763.8	57.2	14.0	86	calm	0	0		6 cs	0		w.	0	0	fair	J. B. Campbell
Smithville North Carolina	30.00	762.0	30.04	763.0	72.5	22.5	100	ne.	15	6.7			10 n		ne.	1.36	34.5	thund'r st'm	O. Parker.
Spokane Falls, Wash. Ter.	28.22	716.8	30.20	768.6	38	3.3	82	calm	0	0		0	0			0.03	0.8	clear	John F. Hemenway.
Springfield, Illinois	29.44	747.8	30.11	764.8	55.5	13.1	83	e.	7	3.1		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	26.93	684.0	29.89	759.2	67	19.4	93	se.	12	5.4			10 n		se.	0.70	17.8	light rain	Louis Dorman.
Thomas, Camp, Arizona					63	17.2	45	se.			1		10 s			0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.52	749.8	30.20	767.1	61	16.1	78	e.	8	3.6		4 cs	5 s	se.		0	0	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.81	757.2	29.83	757.7	40	4.4	89	nw.	18	8.0			10 n		nw.	0.25	6.3	light rain	Samuel Applegate.
Verde, Fort, Arizona					68	20.0	57	se.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.70	755.9	30.01	762.2	64.3	17.9	89	calm	0	0		1 c	0	n.		0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C	30.20	767.1	30.32	770.1	59.4	15.2	73	ne.	6	2.7			10 s		ne.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.04	661.4	29.86	758.4	47.5	8.6	96	w.	3	1.3		0	0			0.06	1.5	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.01	762.2	30.06	763.5	71.0	21.7	97	e.	11	4.9			10 n		ne.	1.70	43.2	light rain	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.70	729.0	29.99	761.7	56.8	13.8	86	se.	6	2.7			10 n			0.54	13.7	light rain	E. H. Thompson.
Yuma, Arizona	29.53	750.0	29.67	753.6	75.1	23.9	74	ne.	8	3.6		0	9 s		sw.	0.12	3.0	cloudy	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		nw.			1		4 k		nw.	0	0	foggy	W. H. Jackson.
Bogota, U. S. C	22.05	559.9			53.2	11.8	85	calm	0	0			10 s		nw	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I			29.98	761.5	75.9	24.4	92	calm	0	0			10 s		se.	0.01	0.3	cloudy	Robert Johnstone
Paramaribo, S. A	30.02	762.5	30.03	762.7	79	26.1	82	se.			3	5 ck	4 s	e.		0.010	0.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C	29.40	746.7	29.90	761.0	81	27.2	85	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisnaros.
Rivas, Nicaragua, C. A					76	24.4	90	nw.			1	5 ck		se.		0.41	10.4	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A	30.02	762.5	30.08	764.0	30.5	2.5	95	nw.	10	4.5		2 k	2 s	nw.	nw.	0	0	fair	Fontescue & W

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 37° 30′, E. 23° 37′	29.95	760.7	80	26.7	70	sse.			1		1	sse.				sm'h		blue sky.
H. M. S. Coquette, N. 36° 24′, E. 22° 40′	30.01?	762.2?	78	25.6		wsw.			3		2					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	78	25.6	82	ese.			4		9	ese.						d. clouds.
H. M. S. Flamingo, N 51° 38′, W. 55° 23′	29.82	757.4	48	8.9	92	w.			1		2	w.				5	w.	d. clouds.
H. M. S. Griffon, N. 37° 55′, W. 71° 28′	30.16	766.1	71	21.7	85	ne.			4–6		10	nne.				6	nne.	squally.
H. M. S. Iris, off Port Said, Egypt	29.96	761.0	79	26.1	82	nw.			2		0							blue sky.
H. M. S. Tenedos. N. 47° 51′, W. 59° 26′	30.02	762.5	53	11.7	100	wnw.			5		3	w.				2	w.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.29	769.4	55	12.8	81	calm	0	0			0			0	0			clear.
U. S. S. Alliance, Halifax, N.S	30.22	767.6	57	13.9	75	nnw.			3		0			0	0	sm'h		clear.
U. S. S. Galena, N. 25° 00′, W. 62° 30′	29.86	758.4	79	26.1	91	ne.			9		4		ene.			rg'h	ne.	cloudy.
U. S. S. Jamestown, N. 31° 39′, W. 17° 24′	30.14	765.5	74	23.3	95	w.			1		2					sm'h		fair.
U. S. S. Kearsarge, N. 39° 30′, W. 11° 45′	29.96	761.0	72	22.2	85	wnw.			3		5					long	n.;w.	fair.
U. S. S. Lancaster, Port Mahon, Minorca, Spain	30.07	763.8	79	26.1	78	wsw.			2		0					sm'h		clear.
U. S. S. Portsmouth, Hen & Chickens Light-ship, Mass	30.33	770.4	58	14.4	88	nne.			3		0							light haze.
U. S. S. Powhatan, St. Johns, N. F	29.85	758.2	56	13.3	87	w.			1		0							clear.
U. S. S. Quinnebaug, Port Mahon, Minorca, Spain	30.22?	767.6?	76	24.4	73	wsw.			1		5		w.			sm'h		fair.
U. S. S. Saratoga, Oyster Bay, Long Island	30.37	771.4	60	15.6	88	ne.			3		2		ne.	0	0	sm'h		clear.
U. S. S. Swatara, Charlottetown, P.E.I.	30.20	767.1	57	13.9	75	nw.			3		0			0	0	sm'h		clear.
U. S. S. Vandalia, Halifax, N.S	30.18	766.6	56	13.3	75	n.			3		0							clear.
U. S. S. Yantic, St. Johns, N. F	29.85	758.2	54	12.2	100	wnw.			2–3		2							clear.
S. S. British Princess, off Ballycottin, Ireland†	29.96	761.0	58	14.4		se.			4		10		se.	2 h'r	2 h'r	mod.	s.	cloudy.
S. S. Lord Gough, N. 39° 14′, W. 73° 44′	30.21?	767.3?	62	16.7		ne.			4		2		ne.	0	0	sm'h		clear.
S. S. Ohio, N. 44° 53′, W. 52° 43′†	29.89	759.2	55	12.8	81	wnw.			3		3		wnw.	3 h'r	3 h'r			clear.
S. S. Grecian, Glasgow, Scotland	30.05	763.3	61	16.1	94	e.			1		10			3 h'r	3 h'r			hazy.
S. S. Nova Scotian, N. 37° 22′, W. 74° 34′	30.21	767.3	67	19.4		ne.			4		10		ne			mod.	ne.	cloudy.
S. S. Polynesian, Montreal, Canada			68	20.0		n.			1		0			0	0			clear.
S. S. Prussian, N. 55° —′, W. 13° 27′	30.01	762.2	62	16.7		ene.			3		10		ese.	0	0	long	sw.	cloudy.
S. S. Sardinian, N. 55° 31′, W. 44° 09′	29.85	758.2	47	8.3		ese.			5		fg.			4 h'r	4 h'r	long	ene.	foggy.
S. S. Alvo, Savanilla, U.S.C*	29.92	760.0	82	27.8		ne.			4		6		nne.	0	0			fine.
S. S. Andes, N. 27° 50′, W. 68° 30′ *†	29.99	761.7	80	26.7					2		8			0	0	mod.	ssw.	cloudy.
S. S. Avila, Aux Cayes, Hayti, W. I *†	30.00	762.0	80	26.7		e.			1		8		e.	rain	rain	sm'h		
S. S. Australia, N. 41° 13′, W. 60° 29′*†	30.06	763.5	62	16.7		n.			5		2		n.	2 h'r	2 h'r			fine.
S. S. Dorian, Leghorn, Italy	30.00	762.0																
S. S. Furnessia, Liverpool, Eng †	30.11	764.8	64	17.8	73	se.			2		10		se.	0	0			overcast.
S. S. Cephalonia, N. 43° 24′, W. 48° 35′	29.82	757.4	69	20.6	85	s.			4		7		wsw.	1 h'r	1 h'r	sm'h		misty.
S. S. Bothnia, N. 48° 50′, W. 30° 30′	29.74	755.4	64	17.8	89	nnw.			6		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Pavonia, New York, N. Y *	30.30	769.6	66	18.9	89	nne.			2		0			0	0			hazy.
S. S. Scythia, N. 49° 25′, W. 31° 02′	29.68	753.9	60	15.6	94	nnw.			3		8		nnw.	4 h'r	4 h'r	sli't	nnw.	cloudy.
S. S. Samaria, N. 43° 40′ W. 47° 20′*	29.88	758.9	63	17.2		sse.			4		7		w	0	0	sm'h	ese.	cloudy.
S. S. Bohemia, N. 42° 38′, W. 52° 25′†	29.93	760.2				nw.			3–5		8		nw.	0	0	long	nw.	cloudy.
S. S. Gellert, N. 47° 77′, W. 35° 10′	29.85	758.2	62	16.7	83	nw.			5		5?		nw.	1 h'r	1 h'r	mod.	n.	cloudy?
S. S. Rugia, N. 48° 31′ W. 34° 38′	29.92	760.0	58	14.4		nw.			6		6		nw.	rain	rain	r'gh	nw.	squally.
S. S. Silesia, Hamburg, Germany			63.2	17.3		nw.			4		5?		nw.	3 h'r	3 h'r			cloudy?
S. S. Westphalia, New York, N. Y	30.32	770.1	60	15.6	82	ne.			1		2			0	0			fair.
S. S. Nessmore, N. 48° 46′, W. 39° 42′ *	29.92	760.0	57	13.9	100	nw.			5		7		w.	0	0	h'vy	nw.	cloudy.
S. S. Archimedes, N. 42° 20′, W. 50° 07′	29.86	758.4				nw.			4		10		wsw.	1 h'r	1 h'r	h'vy	se.	foggy
S. S. Hevelius, N. 19° 06′, W 24° 36′ *†	30.05	763.3	80	26.7		ne.			5		3		ne.	0	0	sm'h		clear.
S. S. Teneirs, N. 19° 52′ W. 23° 48′	30.05	763.3	79.1	26.2	78	nne.			3	c	6 k		nnw.	0	0	4	nnw.	d. clouds.
S. S. Sirius, Lisbon, Portugal	30.00	762.0									10			2 h'r	2 h'r			rainy.
S. S. Rio Grande, N. 29° 00′, W. 79° 40′†	29.98	761.5	84	28.9		nne.			1		1		ne.	0	0	small	e.	d. clouds.
S. S. Chalmette, New York, N. Y †	30.35	770.9	59	15.0		ne.			3		4		ne.	0	0			clear.
S. S. New York, N. 28° 25′, W. 79° 45′*†	30.04?	763.0?	83	28.3		n.			2		2		n.	0	0	mod.	ne.	clear.
S. S. Alleghany. N. 38° 14′, W. 74° 50′†	30.29	769.4	68	20.0		ne.			5		4		ne.	10 h'r	10 h'r	r'gh	ne.	clearing.
S. S. Archimede, Palermo, Sicily †	30.08	764.0	80	26.7		wnw.			4		4		wnw	2 h'r	2 h'r			fair.
S. S. City of Merida, N. 23° 09, W. 82° 22′*†	29.98	761.5	82	27.8		ne.			1		2		ne.	0	0	mod.	se.	fine.
S. S. City of Washington, Vera Cruz, Mexico *†	29.85	758.2	83	28.3		n.			5		8		n.	2 h'r	2 h'r	sm'h		fine.
S. S. Cienfuegos, St. Jago, Cuba, W. I *	29.91	759.7	80	26.7		ne.			4		10		e.	9 h'r	9 h'r	small	ese.	raining.
S. S. Denmark, N. 40° 37′, W. 68° 20′†	30.31	769.9	56	13.3		n.			3		4			0	0	sm'h		clear.
S. S. England, N. 41° 53′, W. 51° 08′	29.88	758.9				nnw.			5		10		nnw.	sh'rs	sh'rs	sm'h		cloudy.
S. S. Greece, N. 45° 58′ W. 37° 54′	29.92?	760.0?	63	17.2	78	n.			3		6		n.	0	0	mod.	n.	fair
S. S. The Queen, N. 43° 59′, W. 47° 13′			65	18.3		se.			3		8		sw.	0	0	con	se.	cloudy.
S. S. America, Terschelling, Netherlands	30.14	765.5	68.0	20.0	79	se.			1		0			0	0	sm'h		hazy.
S. S. Donau, N. 49° 14′, W. 26° 59′	29.64	752.8				calm			0		3		sw.	2 h'r	2 h'r	mod.	nw.	clear.
S. S. Elbe, N. 45° 18′, W. 51° 26′	29.83	757.6	57.2	14.0	94	nw.			4		7		nw.	3 h'r	3 h'r	sm'h	nw.	fair.
S. S. Habsburg, N. 49° 53′, W. 4° 30′	30.05	763.3				se.			4		8		se.	0	0	sm'h	se.	cloudy.
S. S. Hermann, N 48° 50′, W. 37° 02′	29.86	758.4	57.2	14.0	83	nw.			5		6		nw	3 h'r	3 h'r	long	nw.	fair.
S. S. Main, N. 42° 16′, W. 61° 40′	30.10	764.5	60.8	16.0		nnw.			3		1		nw.	0	0	sm'h		clear.
S. S. Ohio, N. 43° 07′, W. 49° 46′	29.80	756.9				s.			3		4		s.	4 h'r	4 h'r	light	s.	fair.
S. S. Rhein, N. 49° 50′, W. 5° 37′			62.6	17.0		ssw.			3		4		se.	0	0	mod.	se.	fair
S. S. Weser, N. 35° 40′, W. 53° 14′	30.12	765.0	80.6	27.0		wnw.			5		2		wnw.	1 h'r	1 h'r	r'gh	wnw.	clear.
S. S. City of Augusta, Savannah, Ga †	30.08	764.0				nne.			2		10		ne.	0	0			clear?
S. S. Muriel, St. Thomas, W. I	29.94	760.5	84	28.9		se.			2		0			0	0	sm'h		clear.
S. S. Orinoco, New York, N. Y.			65	18.3		ene.			2		3		ene.	0	0			clear.
S. S. Rhynland, N. 40° 46′ W. 67° 41′	30.29	769.4	59	15.0	70	n.			3		0			0	0			clear.
S. S. Pennland, N. 49° 57′, W. 28° 20′			56	13.3	100	w.			1		5		nw.	1 h'r	1 h'r	mod.	w.	fair.
S. S. Switzerland, N. 49° 59′, W. 10° 28′ *†	29.86	758.4				e.			4		10		e.	10 h'r	10 h'r	r'gh	ese	heavy rain.
S. S. Vaderland, Antwerpt, Belgium			72	22.2		e.			3		1		e.	0	0			clear.
S. S. Waesland, N. 44° 39′, W. 52° 42′	29.99?	761.7?	59	15.0		nw.			6		2		nw.	1 h'r	1 h'r	mod.	nw.	clear.
S. S Zeeland, Cape Henlopen, Del			56	13.3		ne.			5				ne.	0	0	mod.	ne.	fair.
S. S. P. Caland, Jersey City, N. J	30.35	770.9	61.9	16.6	71	ne.			2									hazy.
S. S. W. A Scholten, Rotterdam, Holland	30.19	766.8	65.5	18.6	85	e.			2		3		e.	0	0			squally.
S. S. Caracas, La Guayra, Venezuela*†	30.00	762.0	84	28.9	76	calm			0		0			0	0	light	ne.	clear.
S. S. State of Georgia, N. 52° 51′, W. 33° 21′	29.77	756.1	54	12.2		n.			6		10			light	light	var.		drizzling.
S. S. State of Indiana, N. 49° 58′ W. 42° 56′*†	29.90	759.4	50	10.0		sw.			4		6		sw.	0	0	mod.	e.	fair.
S. S. State of Nevada, Glasgow, Scotland†	30.06	763.5	59	15.0		ne.			3		10		ne.	5 h'r	5 h'r			cloudy.
S. S. Thingvalla, Copenhagen, Denmark†	30.07	763.8	59.0	15.0		wsw.			3		3		wsw.	0	0			clear.
S. S. Romano, N. 50° 12′, W 8° 04′			62	16.7		sse.			3		10		sse.				w.	dull.
S. S. Salerno, N. 44° 34′, W 46° 59′ *†	29.85	758.2	59	15.0		sse.			2		8		w.	0	0	sm'h	sw.	cloudy.
S. S. Dominion, N. 53° 48′ W. 45° 54′			48	8.9		se.			3		10		se.			mod.	se.	cloudy.
S. S. Oregon, Quebec, Canada	30.31	769.9	62	16.7		sw.			2		0					short	w.	clear.
S. S. Texas, N. 52° 53′, W. 51° 30′ *†	29.63	752.6	45	7.2	84	w.			5		8					sm'h		light fog.
S. S. Daniel Steinmann, Antwerp, Belgium*†	30.20	767.1	67	19.4		ene.			2		0			0	0			clear.
S. S. Saxon, Philadelphia, Pa†	30.31	769.9				nne.			1		10			0	0			overcast.
S. S. Adriatic, N. 47° 28′, W. 34° 07′ *†	29.89	759.2	58	14.4		nw.			6				nw.	0	0	mod.	n.	d. clouds.
S. S. Celtic, Liverpool, Eng†	30.06	763.5	68	20.0	74	se.			3		8		s.	0	0	sm'h		cloudy.
S. S. Republic, N. 42° 21′ W. 63° 21′*†	30.15	765.8	60	15.6	94	n.			3		0			1 h'r	1 h'r	sm'h		blue sky.
S. S. Iowa, N. 51° 31′, W. 30° 54′ †	29.66	753.4	60	15.6		n.			3		10		n.	4 h'r	4 h'r	mod.	nw.	misty.
S. S. Amsterdam, N. 43° 20′ W. 58° 42′*	30.07	763.8	55.4	13		nw.			4									fair.
S. S. Algiers, N. 28° 40′ W. 88° 40′ *†	30.05	763.3	85	29.4		ne.			1							sm'h		fair.
S. S. City of Alexandria, N 22° 20′, W. 83° 01′*†	29.92	760.0	83	28.3		ene.			2					0	0	small	ene.	raining.
Bk. Arda, N. 49° 10′, W. 11° 50′ †	29.86	758.4				sse.			1		1?		s.	sh'rs	sh'rs	light	s.	overcast?
Bk. Alpheus Marshall, N. 33° 22′, W. 44° 16′*†	30.10	764.5	79	26.1	95	wsw.			3		7		wsw.	1 h'r	1 h'r	sm'h	wsw.	threatening.
Bk. Ariadne, N. 38° 41′, W. 67° 01′	30.21	767.3	70	21.1	70	ne.			7		3		ne.	0	0	mod.	ne.	clear.
Schr. Arthur Burton, Boston, Mass†	30.33	770.4				n.			1		2		calm	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Antonio Lopez, N. 41° 04′, W. 22° 01′	30.01	762.2	65	18.3	86	w.			4		5			½h'r	½hr	mod.	w.	fair.
Bgt. Achsah, N. 35° 58′, W. 64° 34′†	30.09	764.3	80	26.7		se.			2		9		se.	1 h'r	1 h'r	long.	sw.	cloudy.
Bk. Aureola, N. 5° 00′, W. 22° 20′ †	29.90	759.4	85	29.4		sw.			5		9		s.	4 h'r	4 h'r	mod.	se.	cloudy.
Bk. Adelaide, N. 16° 24′, W. 41° 24′†*	30.02	762.5				ese.			4		1		se.	6 h'r	6 h'r	mod	se.	clear.
Bg. Belle of the Bay, N. 25° 14′, W. 78° 32′†	29.96	761.0				ese.			1		2		ene.	0	0	sm'h	ne.	clear.
S. S. Cannonbury, San Juan, Porto Rico, W. I*†	30.01	762.2				var.			1		5		e.	2 h'r	2 h'r	sm'h		fair.
Bk. Celestina, Genoa, Italy *†	30.10	764.5				calm			0		0			0	0			clear.
Bk. Ceylon, N. 38° 15′, W. 55° 56′†	30.03	762.7	80	26.7	74	nw.			5		7?		w.	0	0	mod.	nw.	overcast.?
Schr. C. R. Flint, N. 32° 14′, W. 59° 15′†	30.09	764.3	83	28.3		s			1		5		ssw.	0	0	mod.	ne.	fair.
Bk. Cato, N. 38° 19′, E. 0° 25′ †	30.11	764.8				se.			2		1		sw.					clear.
Bk. Don Justo, N. 52° 58′, W. 33° 30′						ene.			1		10		ese.	0	0	mod.	ene.	
Bk. Childwall, N. 20° 11′, W. 25° 13′			78	25.6	78	ne.			3		6		ne.	0	0	sm'h	ne.	fair.
S. S. D. J. Foley, N. 34° 30′, W. 75° 10′*†	30.05	763.3	75	23.9	100	ne.			5		10		ne.	4 h'r	4 h'r	cross	var.	raining.
Bkt. David A. Preston, Windsor, N. S.						wsw.			1		0			0	0			
Bk. Diamant, N. 38° 10′, W. 65° 22′	30.13	765.3	69.1	20.6	83	nne.			6	4 c		nw.		0	0	4	nne.	fair.
S. Dynomine, N. 49° 24′, W. 10° 30′			60	15.6	99	e.			4		10			h'vy	h'vy	high	wsw.	drizzling.
S. Doia, N. 41° 05′, W. 61° 33′*†	30.16	766.1	64.4	18.0		nnw.			5					0	0	mod.	nw.	blue sky.
S. David Stewart, N. 24° 05′, W. 63° 08′			92?	33.3?		ese.			3		3		ese.	2 h'r	2 h'r	mod.	ese.	clear.
S. E. J. Spicer, Antwerp, Belgium	30.08	764.0	62	16.7	100	ene.			2		0			0	0			clear.
Schr. Edith R. Seward, Brunswick, Ga.			75	23.9		nne.			1		5		n.	0	0			fair.
Bk. E. D. Bigelow, Galveston, Texas†	29.99	761.7	86	30.0		calm			0		0			0	0			clear.
Bk. Edmund Phinney, N. 36° 03′, W. 71° 30′†	30.10	764.5	79	26.1		ene.			6		8		ene.	2 h'r	2 h'r	h'vy	ene.	cloudy.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.33	770.4	57	13.9		nne.			1		1		calm	0	0			clear.
S. Gatherer, N. 14° 16′, W. 30° 35′*	29.97	761.2	83	28.3	78	var.			1		2		var.	¼ h'r	¼h'r	chop	ne	clear.
Bg. George, Arroyo, Porto Rico, W. I*†	30.01	762.2	80	26.7		ene.			2		2		ene.	0	0			clear.
Bk. Galeon, N. 34° 57′, W. 13° 38′†	30.09	764.3	74	23.3		sw.			3		8		nw.	light	light		nw.	overcast.
Bk. Grey Eagle, N. 14° 24′, W. 40° 42′						ene.			1		0			½ h'r	½ h'r	h'vy	ene.	clear.
S Hedwig, N. 33° 27′, W. 10° 55′	30.15	765.8	72.0	22.2	87	w.			2		2		wnw.	0	0	3	nw.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	29.98	761.5				e.			1		2		e.	0	0			clear.
Bk. Johanne, N. 56° 15′, W. 21° 25′*†	29.95	760.7	57	13.9		e.			4		8		se.	0	0	mod.	se.	foggy.
Schr. John L. Thomas, N. 31° 10′, W. 79° 02′*†	29.99	761.7	80	26.7	82	nw.			2		2		nw.	3 h'r	3 h'r	mod.		squally.
Schr. Jennie N. Huddell, Delaware Bay †	30.29	769.4	62	16.7	83	ne.			5		5		s.	0	0			fair.
Bg Josefa, N. 50° 50′, W. 20° 45′†	29.61	752.1				se.			2		10			3 h'r	3 h'r	r'gh	w.	raining.
Bkt. Kryolith, N. 55° 58′, W. 52° 31′ *†	29.74	755.4				nw.			5		8					long	s	hazy
Bk. Lady Hincks, N. 29° 10′, W. 27° 30′*†	30.15	765.8							2					0	0	light	nne.	fair.
Bg. L. & W. Armstrong, N. 20° 19′, W. 64° 15′*†.	30.02	762.5				e.			3		3		ene.	0	0	sm'h	ene.	clearing.
S. S. Madrid, Kertch, Russia†	29.98	761.5	70	21.1	75	e.			3		2		e.	0	0			fair.
Bk. Orpheus, N. 49° 31′, W. 41° 51′			56	13.3		ne.			4		9		ese.	12 h'r	12 h'r	sm'h		cloudy.
Bg. Rising Sun, N. 38° 20′, W. 73° 28′†	30.18	766.6	72	22.2		e.			7		5		e.	0	0	short	ene.	fair.
Bk. Rosalie, N. 48° 56′, W. 13° 10′*†	29.70?	754.4?				ese.			4		10		ese.	10 h'r	10 h'r	mod.	sw.	cloudy.
Schr. S. B. Hubbard, Doboy Island, Ga.†	30.06	763.5	80	26.7		ne.			5				ne.	0	0			fine.
Bk. Saga, Pitea, Sweden			47	8.3		nnw.			5		3		nnw.	0	0			clear.
Bgt. Sunlight, N. 16° 34′, W. 60° 15′*†	30.00	762.0				e.			4		3		e.	c	0	mod.	ese.	clear.
Bk. St. Lawrence, N. 36° 59′, W. 64° 23′ *†	30.10	764.5				ene.			6				ene.	0	0	cross		fair.
Bk. Southern Belle, off Majorca, Mediterranean †	30.00?	762.0?	78	25.6		sw.			3							sm'h		clear.
Bg. Teneriffe, N. 42° 20′, W. 65° 45′ *	30.20	767.1				nne.			4		0					sm'h		fine.
Bk. Tuck Sing, N. 27° 46′, W. 74° 32′ *†	29.93	760.2				nnw.			1		0			0	0	light	ne.	fine.
Schr. Viola Reppard, Brunswick, Ga.	30.01	762 2	79	26.1		ene.			2		2?		ene.	0	0			cloudy.?
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 13° 58′, W. 38° 04′	30.04	763.0	75	23.9	84	ene.			3		4	ene.				2	ene.	d. clouds.
H. M. S. Opal, S 16° 21′, W. 4° 49′	30.19	766.8	69	20.6	90	se.			5		3	se.				3	sse.	blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.06	763.5	60.2	15.7	94	nne.			2-5		7	calm						squally.
H. P. M. S. Rainha de Portugal, Landana, Guinea	29.94	760.4	75.2	24.0	77	ssw.			2		9	ssw.		0	0	2		gloomy.
H. P. M. S. Bengo, Zaire, Lower Guinea	29.90	761.0	76.6	24.8	86	wsw.			4		10			0	0	2		overcast.
H. P. M. S. Douro, S. 5° 39′, E. 11° 03′	30.04	762.9	77.4	25 2	82	ssw.			3		8			0	0	2	s.	overcast.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.06	763.5	60	15.6	82	ne.	23	10.3			5		ne.	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.09	764.3	60	15.6	82	nne.			4		0?					sm'h		fair.?
S. S. Hohenstaufen, S. 20° 52′, W. 39° 38′	30.18	766.6	73.4	23.0	96	e.			2		5		e.	0	0	sm'h	e.	fair.
Bk. E. L. Pettingill, S. 12° 44′. W. 35° 34′*†	30.20	767.1	76	24.4		se.			5		2		se.	0	0	sm'h	sse.	
Bkt. Great Surgeon, S. 37° 00′, W. 5° 00′*†	30.50	774.7	55	12.8		nw.			3		4		nw.	½ h'r	½ h'r	long	sw.	fair.
Bk. Godeffroy, S. 55° 40′ W. 64° 55′	29.09	738.9	36.7	2.6	92	wsw.			7		10		wsw.	snow	snow	cross	sw.	squally.
Schr. Jas. Slater, Para, Brazil †	30.00	762.0	83	28.3		e.			2		2		e.	0	0			hazy.
Bkt. Louise Adelaide, off Montevideo, Uruguay†	30.17	766.3	65	18.3		ne.			2		hz.			0	0			fair.
Bgt. Willie, S. 2° 15′, W. 30° 45′ *†	30.04	763.0	82	27.8		se.			5		1		se.	0	0	r'gh	se.	clear.
Bk. Mohican, S. 7° 50′, W 34° 43′	30.02	762.5	80	26.7		se.			5		4		se.	0	0	short	se.	clear.
S. S. Olbers, Rio de Janeiro, Brazil	30.17	766.3	70	21.1	92	calm			0		10			1 h'r	1 h'r	sm'h		overcast.
H. M. S. Boadicea, off Dassen Id., Cape Colony	30.30	769.6	60	15.6		wnw.			2		6	wnw.				5	wsw.	d clouds
Bg. John Wesley, S. 14° 33′, W. 35° 16′*†	30.07	763.8	79	26.1		e.			4		0			1 h'r	1 h'r	mod.	se.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Olga Bay, Siberia	29.73	755.1	62	16.7	88	nw.			1		0					sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 36′	29.78	756.4	69	20.6	80	n.			1		4	n.						d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.86	758.4	80.5	26.9	72	nw.			3		4							d. clouds.
H. M. S. Mutine, N. 4° 35′, W. 94° 55′	30.02	762.5	75	23 9		s.			4		10					3	sse.	overcast.
H. M. S. Zephyr, N. 42° 40′ E. 135° 18′	29.86?	758.4?	57	13.9	100	nw.			2									
H. P. M. S. Pamega, Canton, China	29.77	756.2	84.2	29.0	83	ese.			3		0			0	0			blue sky
U. S. Naval Hospital, Yokohama, Japan	29.85?	758.2?	74.5	23.6	88	s.			1		10		s.	0	0			cloudy.
U. S. S. Essex, Roze Island, Corea	29.81	757.2	71	21.7	100	nne.			1		2					sm'h		clear.
U. S. S. Hartford, N. 4° 06′, W. 80° 07′ *	29.84	757.9	79	26.1	91	sw.			4		10			0	0	sm'h		cloudy.
U. S. S. Monocacy, Che Foo, China	29.95	760.7	67	19.4	55	n.			3		2		calm			mod.	n.	fair.
U. S. S. Palos, Hong Kong, China	29.80	756.9	82	27.8	79	ese.			1		2		ene.					fair.
U. S. S. Pensacola, N. 19° 48′, E. 170° 05′ *	29.85	758.2	82	27.8	79	se.			1		7		se.	shr's	sh'rs	sm'h		cloudy.
U. S. S. Richmond, Yokohama, Japan	29.77	756.1	76	24.4	86	s.			2		7		sse.	0	0			cloudy.
S. S. Coptic, N. 44° 58′, W. 142° 38′	29.03	752.6	59.5	15.3	85	sw.			4		0		sw.	4 h'r	4 h'r	high	var.	showery.
S. S Oregon, Columbia River, Oregon†	30.25	768.3	56	13.3	87	calm												foggy.
S. S. Willametta, N. 46° 43′, W 124° 48′†	30.25	768.3	57	13.9	94	nne.			4		1		n.	0	0	long	wnw.	clear.
S. S. Ancon, N. 33° 35′, W. 118° 09′ †	29.84	757.9	65	18.3	84	ne.			2		10		e.			light	w.	cloudy.
S. S. State of California, N. 40° 06′, W. 124° 30′†	29.83	757.7	51	10.6	86	nw.			5		0					h'vy	nw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	29.81	757.2	56	13.3	94	calm			0		0			0	0			clear.
S. S. Victoria, San Francisco, Cal			59	15.0	88	calm			0		5		nnw.					hazy.
S. S. City of Pekin, N. 43° 08′, E. 156° 01′†.	30.01	762.2	68	20.0	95	sse.			6		10		s.	0	0	mod.	sse.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.85	758.2	85	29.4	87	ese.			1		4		ese.	0	0			fair.
S. S. City of Rio de Janeiro, N. 32° 22′, E. 135° 00′†	29.83	757 7	80	26.7	78	sw.			3		5		sw.	0	0	mod.	e.	fair.
S. S. Colima, N. 34° 43′, W. 121° 04′†	29.83	757.7	57	13.9	94	nw.			4		10		nw.	0	0	mod.	nw.	overcast.
S. S. Granada, N. 7° 42′, W. 82° 50′†	29.82	757.4	75	23.9	100	s.			2		10?		s.	5 h'r	5 h'r	light	s	clear ?
S. S. San Blas, N. 26° 08′, W. 114° 16′†	29.80	758.4	68	20.0		w.			3		10		calm	0	0	mod	wnw.	overcast.
S S. San Juan, N. 16° 18′, W. 98° 50′			79	26.1		wsw.			2		2 k		wsw.	4 h'r	4 h'r	short	nnw.	squally.
S. Armenia, N. 7° 50′, W. 116° 20′ *	29.82	757.4	80	26.7	82	sw.			4		10		sw.	1 h'r	1 h'r	mod.	sse.	overcast.
S. Storm King, N. 26° 57′, W. 124° 06′ *†	30.02	762.5				n.			4		9		n.	0	0	sm'h	nnw.	overcast.
S. St. David, N. 43° 03′, W. 139° 46′*†	29.93	760.2	68	20.0	95	sw.			8		10		sw.	3 h'r	3 h'r	short	sw.	rainy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 25′, E. 155° 33′	29.93	760.2	78.3	25.7	93	se.			3		6					sm'h		squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Iroquois, Callao, Peru	30.05	763.3	61	16.1	94	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
U. S. S. Lackawanna, Arica, Peru*	30.02	762.5	61	16.1	82	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru*†	30.11	764.8	59	15.0	88	nnw.	.....	.....	1	.....	10	.....	sse.	.....	.....	.....	.....	misty.
U. S. S. Wachusetts, Callao, Peru*†	29.99	761.7	60	15.6	94	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	overcast
S. S. City of Sydney, Sydney, N. S. W*†	30.06	763.5	60	15.6	71	nnw.	.....	.....	1	.....	7 k	.....	n.	.....	.....	.....	.....	cloudy.
S. S. Zealandia, S. 3° 19′, W. 167° 34′	29.98	761.5	81	27.2	91	ne.	.....	.....	5	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
Bk. Chas. Stewart, Lobos de Afuera Island, Peru†	30.05	763.3	66	18.9	.....	se.	.....	.....	2	.....	.....	.....	.....	0	0	mod.	sse.	dense fog.
S. David Crockett, S. 45° 40′, W. 103° 37′*	29.61	752.1	46	7.8	84	e.	.....	.....	8	.....	8	.....	ese.	4 h'r	4 h'r	h'vy	se.	squally.
S. Sovereign of the Seas, S. 29° 31′, W. 88° 59′*†	30.30	769.6	60	15.6	82	nne.	.....	.....	4	.....	3	.....	nne.	0	0	h'vy	ssw	clear.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 58′, E. 48° 33′	30.24	768.1	.....	.....	.....	ene.	.....	.....	3	.....	8	ene.	.....	.....	.....	4	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.07	763.8	80	26.7	70	sse.	.....	.....	3	.....	2	sse.	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	80	26.7	91	se.	.....	.....	4	.....	2	sse.	.....	.....	.....	3	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.84	757.9	105.5	40.8	29	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Juniata, Batavia, Java	29.91	759.7	83	28.3	96	n.	.....	.....	1	.....	2	.....	calm	0	0	sm'h	.....	fair.
S. S. Galatia, N. 6° 03′, E. 79° 28′†	29.80	756.9	80	25.7	87	sw.	.....	.....	4	.....	8	.....	sw.	6 h'r	6 h'r	r'gh	sw.	cloudy.
S. S. Benledi, N. 9° —′ E. 65° 15′*	29.88	758.9	83	28.3	77	wnw.	.....	.....	4	.....	4	.....	wnw.	0	0	cross	var.	fine.
Bk. Pilgrim, S. 32° 50′, E. 29° 15′*†	30.30	769.6	.....	.....	.....	wsw.	.....	.....	4	.....	9	.....	wsw.	4 h'r	4 h'r	high	wsw.	cloudy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 20, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.1	76.3	24.6	82	e.			1		0			0	0	clear	Roziere.
Algiers			30.06	763.6	80.6	27.0	56	w.			4		0			0	0	clear	Thève.
La Galle			30.05	763.3	74.5	23.6	70	ene.			4		2			0	0	fair	Fonfrède.
Tunis			30.10	764.4	76.3	24.6	55	w.			2		0			0	0	clear	Delord.
Saida			30.12	765.0															Pérès.
Tebessa			30.11	764.9	79.5	26.4	50	s.			1		0			0	0	clear	St. Martin.
Geriville					88.2	31.2	12	nw.			4		1			0	0	very fair	Forfert.
Laghouat			30.09	764.2	90.3	32.4	40	n.			2		0			0	0	clear	Abraham.
Biskra			30.02	762.5	88.2	31.2	50	se.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.09	764.3	50.8	10.4	71	nne.	11	4.9			2 s			0.031	0.8	fine	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.94	760.5	30.03	762.7	52.1	11.2	68	n.	10	4.5			10			0.04	1.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.5	30.00	762.1	66.6	19.2	58	sw.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.4	29.95	760.7	59.7	15.4	68	wsw.	5.8	1.7			10			0	0		Dr. Wierzbiski
Eperies	29.09	738.8	29.95	760 6	61.9	16.6	69	calm			0		10 s		s.	0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.51	724 2	29.90	759.4	67.1	19.5	70	s.			3		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.60	726.4	29.91	759.8	61.0	16.1	83	ne.			1		3			0	0	fair	The Staff.
Lemberg	28.96	735 5	29.93	760.1	61.3	16.3	64	w.			4		7			0	0		Dr. T. Stanecki.
Pola	29.90	759.4	30.01	762.2	72.0	22.2	63	wnw.			4		2			0	0		I. R. Hydrographic Office.
Szathmar	29.45	748.0	29.90	759.4	67.5	19.7	51	n.			2		4			0	0		Joseph Midlinszky, S. J
Szegedin	29.71	754.5	29.98	761.5	65.5	18.6	60	n.			1		6			0	0		Karl Stu[illegible]cel.
Trieste	29.95	760.7	30.05	763.2	71.6	22.0	58	w.			1		0			0	0		Royal Academy.
Vienna	29.28	743.6	29.98	761.5	63.1	17.3	70	e.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.89	759.2	29.99	761.7	52.6	11.4	64	ene.	25	11.2			6			0	0	squally	W. Boswell.
Armagh, Observatory	29.44	747.8	29.67	753.6	57.0	13.9	88	ene.	12	5.4			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.70	754.4	58.2	14.6	91	e.	18	8.0			10					raining	John Hartnup.
Bolton, Sharples	29.21	741.9	29.73	755.1	57.4	14.1	88	ene.	6	2.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.38	746.2	29.78	756.4	61.0	16.1	80	ne.			1		10			0.53	13.5	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.94	760.5	29.97	761.2	82.0	27.8	75	e.			2		6					gloomy	Corpl. W. I. Cull, A. H. C
Cardington	29.65	753.1	29.76	755.9	61.4	16.3	91	se.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.58	751.3	29.75	755.6	61.2	16.2	88	calm			0		10					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.47	748.5	29.70	754.4	63.1	17.3	85	s.			3		5					d. clouds	The Staff.
Fort Napier, Natal	27.79	705.9	30.01	762.2	73.0	22.8	55	ne.			1		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	84.0	28.9	83	sw.			3		4					d. clouds	J. W. Smith.
Galway, Queen's College	29.48	748.8	29.51	749.5	61	16.1	82	se.			2		3			0.47	11.9	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	76.0	24.4	94	nw.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.64	752.8	29.84	757.9	53.0	11.7	86	ene.			7		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	59.5	15.3	91	e.			1		10					raining	The Staff.
Guernsey	29.48	748.8	29.78	756.4	66.0	18.9	76	wsw.			3		3			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.72	754.9	29.76	755.9	59.5	15.3	93	s.	3	1.3			5					raining	The Staff.
Leicester, Museum	29.42	747.3	29.67	753.6	59.8	15.4	88	e.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	75.2	24.0	70	nw.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.92	760.0	29.96	761.0	81.2	27.3	77	e.			1		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.51	749.5	29.74	755.4	58.7	14.8	94	se.			3		10					overcast	The Staff.
Plymouth	29.64	752.8	29.71	754 6	64.1	17.8	86	s.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.95	760.7	30.05	763.3	50.6	10.3	62						3					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey																			W. H. Lyne.
Sheffield	29.41	747.0	29.76	755.9	60.4	15.8	95	calm			0		10			0.38	9.7	raining	W. F. Cooper.
Silloth Rectory	29.77	756.1	29.80	756.9	56.9	13.8	91	e.			4		10			0.545	13.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.76	755.9	59.1	15.1	82	ne.	6	2.7			10					misty	W. C. Carlisle.
Strathfield Turgiss					58.8	14.9	96	se.			0.5		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.65	753.1	29.74	755.4	68	20.0	74	sw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.50	749.3	29.52	749.8	61.5	16.4	88	se.	24	10.7			5			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.05	763.3	74.1	23.4	70	nw.	14.9	6.7			0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.99	761.7	30.20	767.1	60	15.6	72	w.	3	1.3		3 c	0	e.		0	0	blue sky	Hon. J. Ferguson
Charlottetown, P. E. Island	29.92	760.0	29.96	761.0	62	16.7	73	nw.	8	3.6		0	2 s		calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.97	761.2	30.03	762.7	61	16.1	65	nw.	8	3.6		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.02	762.5	30.21	767.3	54.0	12.2	90	w.			1	10 cs	0			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.02	762.5	30.07	763.8	59.5	15.3		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.	28.12	714.2			26	— 3.3	40	se.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.10	764.5	30.12	765.0	51	10.0	80	nw.	10	4.5		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.14	765.5	50	10.0	100	nw.	20	8.9			10 n		sw.	0.30	7.6	cloudy	James Stewart.
Fredericton, N. B.	30.03	762.7	30.10	764.5	57.0	13.9	75	nw.	10.0	4.5		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.04	763.0	30.09	764.3	62	16.7	68	nw.	8	3.6		5 k	0		nw.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.11	739.4	30.21	767.3	56.0	13.3	87	e.	2	0.9			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.88	758.9	30.01	762.2	60	15.6	70	nw.	4	1.8		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.79	756.7	30.18	766.6	54.9	12.7	87	ne.			1	10 cs	0		nw.	0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.24	768.1	57	13.9	83	ne.	4	1.8		10 cs				0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.83	757.7	29.87	758.7	58.2	14.6	93	n.			5	6 k	0		n.	0	0	d. clouds	C. H. Rigby.
London, Ontario	29.29	744.0	30.18	766.6	55.7	13.2	98	calm	0	0			10 n			0	0	overcast	E. B. Reed.
Medicine Hat	28.30	718.8	30.72	780.3	30	— 1.1	88	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	30.02	762.5	30.23	767.8	57	13.9	90	nw.	4	1.8		5 c	5 s		w.	0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	30.01	762.2	30.26	768.6	52.0	11.1	96	nnw.				0 cs	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.54	750.3	30.23	767.8	52	11.1	93	ne.	8	3.6		5 k	2 ks		nw.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.43	747.5	30.18	766.6	56.7	13.7	87	calm			0	7 c	0		sw.	0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.52	749 8	30.21	767.3	58	14.4	100	calm	0	0			10 n		se.	0.12	3.0	light rain	H. Morgan.
Port Stanley, Ontario	29.54	750.3	30.18	766.6	59	15.0	93	e.	10	4.5			10 n		s.	0.01	0.3	light rain	M. Payne.
Que Appelle, N. W. T.	28.18	715.8	30.51	774.9	36	2.2	85	nw.	20	8.9		0	0			0.02	0.5	clear	Leslie Gordon.
Quebec, Quebec*	29.83	757.7	30.19	766.8	54	12.2	93	sw.	8	3.6		5 cs	0			0	0	fair	Capt. Asne, R. A.
Rockliffe, Ontario*	29.80	756.9	30.25	768.3	48	8.9	96	calm	0	0			fg			0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.03	762.7	30.09	764.3	59	15.0	72	nw.	5	4.0		0	0			0	0	clear	
St. John, N. B	29.92	760.0	30.06	763.5	60.3	15.7	75	w.	12	5.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.					50	10.0	93	nw.					10 n			0.11	2.8	cloudy	The Commandant.
Saugeen, Ontario*	29.47	748.5	30.18	766.6	54	12.2	86	e.	0	0			10 ks			0	0	cloudy	
Stratford, Ontario	28.92	734.6	30.17	766.3	54.7	12.6	90	se.	1.5	0.7			10 s			0	0	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F.			29.72	754.9	54.3	12.4		ne.			3					0	0		The Commandant.
S. W. Point, Anticosti	29.95	760.7	29.98	761.5	51	10.6	80	n.	2	0.9		0	0			0	0	clear	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrument. error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Sydney, C. B.	29.83	757.7	29.89	759.2	58	14.4	64	n.	12	5.4		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.84	757.9	30.22	767.6	57	13.9	90	ne.	4	1.8			10 n		se.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.17	740.9	30.23	767.8	55.7	13.2	95	e.	4.5	2.0			10 s			0	0	overcast	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.02	762.5	30.09	764.3	55	12.8	83	n.	2	0.9		2 cs	hz	w.		0	0	hazy	Lt. F. E. Wilmot, R.N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	65.4	18.6	68	se.	6.4	2.9			10 k			0	0	hazy	I. Garfelt.
Springbok Fontein	27.88	708.1			77	25.0	34									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	29.97	761.2	30.05	763.2	57.2	14.0	90	ne.			3		10					cloudy	Samuel Redolez.
Iquique	30.02	762.4	30.04	763.1	61.7	16.5	74	ne.			3							fair	Rafael Moreno.
Niebla	29.47	748.6	29.58	751.3	44.2	6.8	88	e.			4	4 n		w.		0	0		Federico Köhling.
Punta Caldera	29.93	760.3	30.02	762.5	58.5	14.7	81	nw.			4	7 c		nw.				fair	Manuel Tobar.
Punta Corona	30.21	767.4	30.40	772.2				e.			2	6 cs		e.		0	0	fair	Ignacio Ayala.
Valparaiso	29.80	756.9	29.94	760.5	55.0	12.8	81	n.			3							cloudy	Paez-i-Ampuero.
CHINESE (*sub-series*).																			
Sung-shu-chwang	25.29	642.3																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.99	761.8	30.02	762.5	66.6	19.2	81	ne.	2.7	1.2		ck	10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.68	753.8	29.72	755.0	57.0	13.9	93	w.	11	5			10					raining	Oversergent Fischer.
Fanoe	29.78	756.4	29.80	756.9	56.1	13.4	90	n.	9	4			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.22	767.6	30.26	768.7	46.0	7.8	82	calm	0	0			0						A. O. Thorlacius.
Thorshavn	30.20	767.1	30.22	767.7	47.5	8.6	70	ne.	16	7			2						Overloerer Bergh.
Vestervig	29.69	754.0	29.78	756.3	54.5	12.5	65	nw.	9	4			3						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.84	757.8			87.3	30.7		ne.	4.9	2.2			0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.38	746.2	30.00	762.0	74.1	23.4	54	calm			0	c		sw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.43	747.5	29.94	760.5	67.6	19.8	74	sw.			1		k		ne.	0.008	0.2		M. Nicot, Director.
Avignon, Normal School	29.95	760.7	30.03	762.7	78.8	26	65	ne.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.32	744.7	29.85	758.3	70.3	21.3	55	ssw.			1		10 kn		sw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.52	749.8	29.78	756.3	68.7	20.4	68	e.			1		5		sw.	0	0	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.02	737.2	29.91	759.8	71.8	22.1	54	sw.								0	0		M. Gobin, Director.
Bordeaux, Observatory	29.69	754.2	29.95	760.7	65.1	18.4	91	w.			1		10		w.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.35	745.6	29.89	759.1	71.6	22	59	w.			2		k		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.59	751.6	29.84	757.8	67.6	19.8	76	sw.			4		4		sw.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	29.88	758.9	29.96	761.0	68.4	20.2	78	sw.			1		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.54	750.2	29.85	758.2	68.5	20.3	74	s.			2		5		e. nne.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.31	744.5	29.81	757.1	69.8	21	58	s.			2		10		w.	0	0	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.56	725.4	29.85	758.3	74.8	23.8	55	w.			1		8		sw	0	0		M. Alluard, Director.
Cluny, Normal School	29.09	738.9	29.91	759.8	75.0	23.9	50	sw.			2				sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.02	737.2	29.95	758.2	69.8	21	55	s.			4		2 cn	s.	s.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.53	699.3	29.98	761.6	71.6	22	52	s.			1		5 n			0.343	8.7		M. Jarach, Director.
Grésaque, du Rhone	28.92	734.6	30.00	762.1	75.6	24.2	47	s.			2		3		se.	0	0		M. Kuss, Director.
Grenoble. Normal School	29.21	742.0	29.96	760.9	70.2	21.2	69	wnw.			2	cs	k		sse.	0	0		M. Abiard, Directoor.
Guéret, Normal School	28.36	720.3	29.89	759.2	69.3	20.7	58	sw.			1	5 ck		sw.		0.28	7.	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.50	749.4	29.78	756.4	71.6	22	50	sw.			2		5		sw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.38	746.2	30.01	762.2	74.8	23.8	82	w.			1		5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.74	755.5	29.85	758.1	75.9	24.4	57	sw.			4		5	w.	s.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.89	733.9	29.91	759.7	72.7	22.6	48	s.			2		10 n			0	0	covered	M. André, Director
Mans, Normal School	29.57	751.1	29.87	758.7	69.1	20.6		sw.			4		5 kn		sw.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.77	756.1	30.03	762.8	75.4	24.1	63	s.			2		4		s.sw.	0.024	0.6		M. Stephan, Director.
Montlouis	24.89	632.1	29.73	755.1	65.3	18.5	33	se.	13.0	5.8			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.85	758.3	29.96	761.0	68.4	20.2	36	se.			4		2			0.051	1.3	foggy	M. Galzin, Director.
Nantes, Observatory	29.74	755.4	29.90	759.5	70.5	21.4	58	wsw.			1–4		9 k; kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.86	758.4	29.97	761.1	73.0	22.8	73	ne.	5.6	2.5			9		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.33	541.8			42.8	6.0		sw.			2		5		sw.	0	0	fair	M. Vausseuat, Director.
Privas, Normal School	28.96	735.5	29.98	761.6	73.8	23.2	56	s.			1		10	s.	s.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.16	639.1			56.7	13.7	77	wsw.			4		5			0	0		M. Alluard.
Rochefort, Naval Obs'y	29.88	758.9	29.91	759.7	66.2	19.0	83	sw.			1		10		wsw.	0.488	12.4	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.70	754.4	29.91	759.7	69.1	20.6	98	sw.			2		5	sw.	sw.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.87	708.0	30.01	762.2	58.6	14.8	87	se.			2		5	e.	ne.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.76	755.9	29.81	757.1	70.9	21.6	82	s.			2		5	w.		0	0	cloudy	M. Moullot, Dir.
Saint Maur, Observatory	29.66	753.3	29.82	757.5	70.3	21.3	65	ssw.			2		1	wsw.		0.012	0.3	clear	M. Renou, Director.
Toulouse, Observatory	29.28	743.7	30.00	762.1	77.9	25.5	61	sse.			4		2	w.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.69	754.0	29.86	758.5	70.2	21.2	73	sw.			1		5	wsw.	wsw.	0.031	0.8	cloudy	M. de Tastes.
Versailles, Observatory	29.32	744.8	29.82	757.3	71.6	22.0	63	s.			2		9			0	0	almost cov'd	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.85	758.1	30.00	761.9	68.2	20.1	72	nw.	25.5	11.4		5 ck		sw.		0.020	0.5		M. Cartier, Director.
GERMAN.																			
Ansbach	28.49	723.7	29.90	759.4	66.9	19.4	63	sw.			4		3	sw.		0	0		Prof. Jnedt.
Bamberg	29.13	739.9	29.97	761.2	69.4	20.8	55	s.			1		4 s			0	0		Prof. Dr. Hoh.
Berlin	29.70	750.0	29.90	759.5	66.6	19.2	55	w.			1		8			0	0		Dr. Lensch.
Breslau	29.44	747.7	29.97	761.2	63.0	17.2	57	wsw.			1		6			0	0		Royal University Obs'y.
Carlsruhe	29.43	747.4	29.88	758.9	68.0	20.0	68	calm			0		9	sw.		0.370	9.4		Albert Senz.
Cassel	29.17	741.0	29.89	759.1	68.2	20.1	56	se.			2		5	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.53	750.0	29.88	759.0	67.3	19.6	61	se.			1		5			0	0		Physical Society.
Friedrichshafen	28.54	724.9	29.93	760.2	61.2	16.2	83	wsw.			2		5	w.		0.713	18.1		Wilhelm, Chief Tel.
Hamburg	29.79	756.6	29.88	758.9	64.4	18.0	71	sw.			2		8	wsw.		0	0		E. Freiler.
Kiel	29.82	757.4	29.84	757.8	61.9	16.6	71	w.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.51	749.5	29.90	759.5	66.9	19.4	49	ssw.			1		6			0	0		H. Leppig, Asst.
Magdeburg	29.70	754.3	29.88	758.9	70.0	21.1	52	sw.			1		8	sw.		0	0		Weather Observatory.
Memel	29.74	755.3	29.78	756.5	60.4	15.8	76	sw.			5		7 k						Issermann.
Munich	28.12	714.3	29.98	761.5	65.1	18.4	64	ne.			1		4	sw.		0	0		Central Station.
Neufahrwasser	29.82	757.4	29.84	757.8	62.1	16.7	67	sw.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.34	745.2	29.86	758.5	66.9	19.4	68	se.			3		4	w.		0.102	2.6		Dicknether.
Stuttgart	28.94	735.0	29.80	756.9	68.0	20.0	68	n.			1		7	w.		0.091	2.3		Prof. Dr. Schoder.
Wustrow	29.78	750.3	29.80	756.9	60.8	16.0	82	sw.			4		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.54	750.3	29.91	759.7	79.2	26.2		sw.			1.5		4 k			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.68	753.9	29.73	755.1	83.8	28.8	71	ssw.	20.0	8.9			7	ssw.	ssw.	0	0	d. clouds	
Deesa	29.23	742.4	29.69	754.2	86.1	30.1	59	e.	6.0	2.7			7	e.	e.	0.01	0.3	d. clouds	
Bombay	29.76	755.8	29.79	756.7	79.7	26.5	79	wnw.	12.0	5.4			10		sw.	0	0	overcast	
Poona, Yarrowda	27.94	709.8	29.80	757.0	76.8	24.9	66	nw.	20.0	8.9			8			0	0	d. clouds	
Trichinopoly	29.50	749.3	29.78	756.3	91.5	33.1	49	sw.	0.1	0.04			4			0	0	d. clouds	
Bellary	28.26	717.9	29.70	754.4	89.0	31.7	86	w.	12.0	5.4			3			0	0	d. clouds	
Belgaum	27.28	693.0	29.84	757.9	71.6	22.0	81	wsw.	11.0	4.9			8	e.	w.	0.02	0.5	d. clouds	
Lahore	28.92	734.4	29.64	752.8	90.1	32.3	49	calm	0	0			0			0	0	blue sky	
Roorkee	28.72	729.6	29.60	751.9	88.2	31.2	64	calm	0	0			0			0	0	foggy	
Agra	29.11	739.3	29.65	753.1	96.1	35.6	26	w.					4		w.	0	0	d. clouds	
Nagpur	28.63	727.1	29.66	753.4	81.7	27.6	81	nnw.	7.0	3.1			9		ne.	1.02	41.1	d. clouds	
Jubbulpore	28.34	719.9	29.68	754.0	82.7	28.2	73	nw.	4.0	1.8			3		n.	0.44	11.2	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.32	744.6	29.69	754.1	83.2	28.4	73	calm	0	0			0			0	0	blue sky	
Allahabad	29.36	745.8	29.67	753.6	83.7	28.7	83	ese.	2.0	0.9			10			0	0	overcast	
Patna	29.50	749.2	29.68	753.8	84.4	29.1	83	w.	1.5	0.7			10	w.	w.	0	0	overcast	
Hazaribagh	27.67	702.8	29.67	753.6	77.3	25.2	87	ene.	5.0	2.2			8		ene.	0	0	d. clouds	
Cuttack	29.57	751.1	29.65	753.2	86.6	30.3	72	ne.	2.0	0.9			4			0	0	d. clouds	
Calcutta, Alipore	29.66	753.5	29.69	754.0	83.5	28.6	89	sw.	2.5	1.1			8		se.	0	0	d. clouds	
Dhubri	29.58	751.2	29.69	754.2	80.4	26.9	91	calm	0	0			10			3.65	92.7	overcast	
Chittagong	29.64	752.9	29.73	755.2	81.9	27.7	85	sw.	3.2	1.4			7			0	0	d. clouds	
Sibsagar	29.36	745.7	29.69	754.2	80.3	26.8	92	se.	2.0	0.9			10	w.	w.	0.67	17.0	d. clouds	
Jeypore	28.28	718.4	29.70	754.3	87.0	30.9	48	nw.	4.5	2.0			9		nw.	0	0	d. clouds	
Zanzibar	30.04	763.0			77.5	25.3	79	se.	2.2	1.0			9		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.61	752.0	30.00	762.1	73.4	23.0	44	calm	0	0			2			0	0		Prof. Giovanni Clodig.
Milan	29.52	749.9	30.03	762.8	72.5	22.5	58	ene.	6.3	2.8			5	w.		0	0		Prof. G.V.Schiapparelli
Padua	29.89	759.1	29.99	761.8	73.4	23.0	55	ssw.	1.3	0.6			3			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.5	30.00	762.1	70.7	21.5	50	nnw.	2.5	1.1			7	n.		0	0		Prof. F. F. Denza.
Genoa	29.84	757.9	30.02	762.6	72.9	22.7	09	se.	6.9	3.1			4	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.13	714.5	30.01	762.3	69.1	20.6	72	nw.			2		8			0	0		Prof. D. C. Bruno.
Pesaro	29.97	761.3	30.02	762.5	70.5	21.4	77	ene.	8.1	3.6			2			0	0		Prof. Luigi Guidi.
Florence	29.76	756.0	30.02	762.4	75.2	24.0	45	ne.			2		1			0	0		Prof. Costantino Pittei.
Leghorn	29.90	759.4	29.98	761.5	73.6	23.1	66	ne.	0.7	0.3			3			0	0		Prof. P. Monte.
Rome	29.84	757.9	30.01	762.2	77.0	25.0	54	w.	6.9	3.1			1			0	0		Prof. P. Tacchini.
Lecce	29.72	755.0	29.98*	761.4	75.6	24.2	66	ne.	15.0	6.7			2	n.		0.276	7.0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.97	761.2	69.8	21.0	66	sse.	2.5	1.1			3	se.		0.024	0.6		Prof. D. Conti.*
Cagliari	29.85	758.1	30.04	762.9	78.3	25.7	55	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	763.0	73.0	23.1	72	nw.	9.4	4.2			10	nw.		0.240	6.1		Prof. G. Caccatore.
Syracuse	29.92	759.9	29.96	761.0	75.0	23.9	64	ne.	1.8	0.8			3	wsw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.50	749.4	30.01	762.3	73.4	23.0	59	w.	0	0			1	n.		0.303	7.7		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.85	758.1	29.89	759.1	55.1	12.8	99	calm			0	7 ck	0	w.		0.315	8.0	cloudy	H. Hattori.
Awomori	29.84	757.9	29.88	758.9	54.0	12.2	90	calm	0	0		0	3 ck		sw.	0	0	fair	K. Ogawa.
Hamamatsu	29.63	754.0	29.73	755.1	67.8	19.9	86	wnw.			4	3 ck	0	wsw.		0.327	8.3	clear	Sekigawa & Yamazaki.
Kagoshima	29.84	757.9	29.85	758.2	71.2	21.8	72	n.			2	1 cs	0			0	0	clear	G. Miyanoaaza.
Kanazawa	29.76	755.9	29.86	758.5	62.9	17.2	93	calm	0	0			10ck;ks			0.007	0.2	overcast	S. Endo.
Kioto	29.66	753.3	29.83	757.7	68.6	20.3	76	nw.	1.3	0.5			10ck;s		n.	0.003	0.1	cloudy	M. Tojima.
Kochi	29.81	757.4	29.83	757.7	72.7	22.6	65	nw.	6.0	2.7		2 ck	5 s	w.	w.	0	0	cloudy	K. Kusunose.
Miasaka	29.83	757.0	29.85	758.3	69.5	20.8	91	nnw.			2	2 cs	2 s	w.	w.	0	0	fair	K. Masusaki.
Miyako	29.79	756.0	29.90	759.4	56.3	13.5	98	sw.	0.8	0.4			10 n			0.507	12.9	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.70	754.4	29.90	759.4	69.3	20.7	75	ne.	2.4	1.1		6 c	0	w.		0	0	fair	S. Takehayashi.
Niigata	29.81	757.2	29.85	758.2	59.4	15.2	96	se.	1.7	0.7		0	2 ks;s		sw.	0.290	7.4	fair	Satoo & Tomikawa.
Nobiru	29.84	757.8	29.85	758.2	57.6	14.2	97	n.	13.4	6.0			10 n			1.075	27.3	raining	Yoslino & Midzushina.
Numazu	29.70	754.4	29.74	755.4	68.0	20.0	92	n.			4		10 n			1.067	27.1	light rain	R. Kaneda.
Osaka	29.81	757.3	29.83	757.7	67.8	19.9	79	n.	4.2	1.9		1 ck	9s;ck	w.	n.	0.020	0.5	cloudy	H. Omura.
Sakai	29.91	759.0	29.92	759.8	65.1	18.4	93	w.			2		9 ks		ne.	0.476	12.1	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.77	756.0	29.91	759.7	66.0	18.9	84	calm			0	0	1 s		nnw.	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.72	754.5	29.79	756.6	58.6	14.8	99	n.	13.1	5.8			10 n			1.775	45.1	raining	The Staff.
Wakayama	29.78	756.3	29.83	757.6	70.0	21.4	76	n.	6.4	2.9		0	2 ck		n.	0.005	0.1	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.03	762.7	30.22	767.6	72.5	22.5	61	ese.	24.5	11.0		0	2ks;k		ese.	0.15	3.8	clear	The Staff.
MEXICAN.																			
Leon	24.31	617.5	29.97	761.2	59.0	15.0	84	wnw.	0.9	0.4		8 c	2 s			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.63	752.5	29.88	759.0	81.0	27.2	77	ene.	0.9	0.4		6 cs	0			0	0	fair	F. Quijano, C. E.
Sub-series.																			
Altata					73	22.8	90	ne.			1	1 c	0			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.81	757.1	29.81	757.1	68.0	20.0		ese.			3					0	0		
Groningen	29.80	756.8	29.85	758.2	62.4	16.9		sw.			1					0	0		
Helder	29.83	757.6	29.83	757.6	63.9	17.7		se.			1					0.303	7.7		
Hellevoetsluis	29.82	757.5	29.82	757.5	65.8	18.8	67	ese.			1					0	0		
Utrecht	29.78	756.3	29.82	757.5	66.4	19.1	64	se.			2		5			0	0	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.6			79.7	26.5	79	nne.	0	0			3			0	0		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.83	757.6	29.89	759.2	53.2	11.8	45	nnw.	21.3	9.4			0			0	0		
Brono	29.93	760.2	29.97	761.2	46.2	7.9	51	n.			4		2			0.118	3.0		
Christiania	29.68	753.9	29.83	757.6	48.4	9.1	63	nne.	18	8			8			0.004	0.1		
Gjesvær	29.95	760.8	29.98	761.4	38.1	3.4		ne.			4		5						
Lodingen	29.98	761.5	30.03	762.7	42.8	6.0	47	ne.			4		3			0	0		
PORTUGUESE.																			
Angra, Azores					72.0	22.2	89	sw.	15.4	6.9			7			0.173	4.4		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.08	764.1	30.17	766.3	74.5	23.6	56	sw.	10.7	4.8			1	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.77	756.1	30.10	764.4	68.0	20.0	74	wsw.	12.5	5.6			7	w.		0.390	9.9		The Staff.
Ponta Delgada, Azores	29.93	760.3	30.00	762.1	75.6	24.2	75	sw.	10.5	4.7			3			0	0		
Saint Paul de Loando	29.76	756.0	29.97	761.2	73.4	23.0	94	w.			2		10			0	0		
San Salvador, Congo	28.73	714.5	29.97	761.3	75.2	24.0	68	w.			1		10						
Serra da Estrella	25.36	644.1	30.04	762.9	54.5	12.5	72	wsw.	8.1	3.6			5	w.		1.087	27.6		
RUSSIAN.																			
Akmolinski	28.99	736.4	30.05	763.2	63.3	17.4	26	s.	4	2		0	0			0	0		Major K. Lasarew.
Archangel	29.49	749.1	29.51	749.6	37.0	2.8	86	nw.	22	10			10			0.059	1.5	raining	Capt. Sseliwerstow
Ashurada	30.02	762.4	29.92	760.0	77.4	25.2	67	wnw.	9	4		0	1 k			0	0		
Astrakhan	30.11	764.8	30.04	763.0	73.4	23.0	34	se.	11	5		0	1 s			0	0		Capt. Wisganow.
Baku	30.02	762.5	29.97	761.3	73.0	22.8	59	s.	18	8		0	0			0	0		
Barnaul	29.61	752.2	30.11	764.9	51.8	11.0	59	sw.	9	4			9			0	0		Meteorological Obs'y
Bielosersk	29.31	744.4	29.77	759.2	48.0	9.4	50	w.	11	5		4 ck	0						
Dorpat	29.54	750.2	29.78	756.3	55.8	13.2	66	s.	4	2			10ks;n			0.433	11.0		Observatory.
Ekaterinburg	28.92	734.5	29.86	758.4	61.7	16.5	46	sw.	13	6		c	3 n			0	0		Meteorological Obs'y.
Elissawetgrad	29.41	747.1	29.84	758.0	76.8	24.9	31	ene.	4	2		5 ck	0			0	0		
Irkutsk	28.37	720.7	30.05	763.2	40.1	4.5	55	calm			0		9						
Kasalinsk																0	0		Observatory.
Kasan	29.51	749.6	29.77	759.2	68.4	20.2	33	sw.	20	9			10 s;n			0.031	0.8	snowing	
Kem	29.71	754.6	29.70	755.9	35.2	1.8	85	nw.	18	8		0	8 ks			0.047	1.2		Lagorio & Sastyrea.
Kertch	29.77	756.1	29.79	756.7	72.0	22.2	50	calm	0	0		0	7			0.535	13.6	light clouds	Observatory.
Kieff	29.21	742.0	29.83	757.6	64.8	18.2	66	n.	4	2			10ks;n			0	0		
Koslov	29.37	745.9	29.85	758.2	72.1	22.3	33	sw.	7	4		0	6 s			0.067	1.7	raining	E. Quaas.
Libau	29.70	754.3	29.74	754.9	57.2	14.0	87	ssw.			0		10			0	0		Meteorological Obs'y.
Lugan	29.66	753.4	29.86	758.4	70.1	24.5	32	se.	18	8			7			0	0		Meteorological Obs'y
Moscow	29.30	745.7	29.82	757.4	62.8	17.1	48	nne.	16	7		0	5 ks			0	0		Capt. Kurdakow.
Nikolaiev	29.76	755.9	29.83	757.7	79.2	26.2	41	calm	0	0		2cs	0						Iwanow.
Nikolaievsk-on-the-Amoor					39.9	4.4	85	calm	0	0		0	7 k						Physical Observatory.
Pekin, China	29.69	754.1	29.83	757.7	66.6	19.3	81	calm	0	0		0	4 k			0	0		
Petro-Alexandrovsk	29.71	754.6	30.05	763.2	76.3	24.6	29	calm	0	0		7 ck	0			0	0		Dr. Bergmann.
Petrozavodsk	29.57	751.0	29.77	756.1	44.2	6.8	54	nnw.	22	10		7 ck	0						

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.41	747.1	29.91	759.6	56.8	13.8	95	w.	7	3			10 n			0.063	1.6	raining	
Poti	29.83	757.7	29.86	758.5	86.0	30.0	51	e.	11	5		0	0			0	0		
St. Petersburg	29.79	756.7	29.82	757.3	52.5	11.4	60	w.	4	2		0	6 n			0.004	0.1		Central Physical Obs'y.
Samarkand	27.60	701.1	30.01	762.2	68.4	20.2	62	calm	0	0		3 ck	0			0	0		
Semipalatinsk	29.53	750.0	30.18	766.6	57.7	14.3	32	nw	4	2			c			0	0		Major Lasarew
Sevastopol	29.63	752.6	29.84	757.8	66.6	19.2	76	ene.	11	5			9 n			0.197	5.0		
Starol Bykhov	29.30	744.2	29.84	758.0	59.7	15.4	88	ese.	2	1			9 kn					light rain	
Tashkend Laboratory	28.36	720.3	29.95	760.8	77.4	25.2	27	w.	7	3		0	7 k			0	0	light clouds	Terch, A. M
Tiflis	28.57	725.6	29.93	760.3	73.4	23.0	48	s	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.50	698.5	29.90	761.0	60.4	15.8	65	calm	0	0		1 cs	0			0	0		
Viatka	29.04	737.5	29.65	753 1	57.0	13.9	76	wsw.	9	4			6			0	0		
Warsaw	29.50	749.4	29.92	759.9	61.3	16.3	61	ssw.	7	3		0	5 k			0	0		Astronomical Obs'y.
Yeniseisk	29.73	755.2	30.03	762.7	32.9	0.5	92	w.	4	2			10			0.114	2.9	snowing	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.7	77.0	25.0	73	sw.	6.3	2.8		0	7			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.95	760.8	30.01	762 3	75.4	24.1	64	e.	2.0	0.9		2	6	s.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.69	688.2	29.98	761.4	68.0	20.0	62	sw.	9.4	4.2			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.2	29.99	761.7	75.9	24.4	43	sw.	21.3	9.5		0	7			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.85	758.2	29.99	761.7	86.7	30.4	49	s.	2.7	1.2		2	1	ne.		0	0	almost clear.	Olayo Diaz, Director.
Oviedo	29.10	739.1	29.86	758.4	68.0	20.0	70	n.	7.2	3.2		6 k	8 k	w.	w.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.02	737.1	29.90	759.5	63.3	17.4	90	sw.	26.2	11.7			10			1.776	45.1	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.90	759.4	29.96	761.1	77.4	25.2	83	e.	5.6	2.5		1cs;ck	k	ssw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757 8	29.89	759.3	80.8	27.1	83	sw.	22.0	9.8			9 ks			0.205	5.2	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.7	30.12	765.1	75.9	24.4	74	wnw.	8.9	4.0		0	3		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.93	760.2	30.02	762.5	80.2	26.7	86	se.	2.9	1.3		3 cs	2 k	se.	se.	0	0		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.96	760.9	30.00	761.9	38.8	3.8	48	n.			4		5			0	0		
Umea	29.93	760.3	29.98	761.6	44.6	7.0	71	ne.			4		9			0	0		
Hernosand	29.89	759.2	29.94	760.5	44.6	7.0	69	ene.			4		10			0	0		
Stockholm	29.51	749.5	29.69	754.0	44.2	6.8	96	nne.			4		10			0.193	4.9	raining	
Wisby	29.56	750.9	29.62	752.4	57.6	14.2	83	w.			6		7					raining	
Sub-series.																			
Upsala	29.62	752.4	29.71	754.6	46.2	7.9	88	ne.	8.1	3.6			10		ne.	0.094	2.4	raining	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.58	725.9	29.97	761.2	66.6	19.2	77	sse.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			29.92	760.0	74.3	23.5	49	n.	8	3.5			5		sw.	0.047	1.2		The Observatory.
Valona			30.09?	764.3?	74.3	23.5		w.			1		2			0.24	6.	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	761.0	84.9	29.4	51	w.			3		5 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.82	681.2			61	16.1	84	calm			0		10 n		sw.	0.78	19.8	threatening.	Fred L. Kingsbury.
United States.																			
Albany, New York	30.17	766.3	30.25	768 3	58	14.4	80	n.	4	1.8		10 cs	hz.	s.		0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.52	749.8	30.17	766.3	55?	12.8?	100	se.	6	2.7			10 n			0.02	0.5	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.98	761.5	50	10.0	86	se.	2	0.9		0	0			0.07	1.8	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.82	706 6	30.67	779.0	33	0.6	81	s.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.18	766.6	62.0	16.7	96	e.	7	3.1			10 s			0.01	0.3	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.16	766.1	30.17	766.3	60	15.6	87	n.	5	2.2		6 ck	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	68.0	20.0	84	n.	8	3.6			10 s		n.	inap.	inap.	cloudy	D. J. Young.
Baltimore, Maryland	30.16	766.1	30.21	767.3	62	16.7	60	ne.	5	2.2		10 cs	0	se.		0	0	cloudy	Geo. W. Fisher.
Barnegat City, New Jersey	30.16	766.1	30.18	766.6	66.0	18.9	78	e.	12	5.4		7 c;ck	0			0	0	fair	G. A. Hill.
Behring Id., Behring Sea	29.61	752.1	29.63	752.6	49.7	9 8	100	sw.	17	7.6			fg.			1.22?	31.0?	foggy	Geo. Chernick.
Bennett, Fort, Dakota	28.86	733.0	30.45	773.4	49.0	9.4	71	nw.	19	8.5		2 cs	2 s	nw.	nw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.91	708 9	30.75	781.0	40	4.4	73	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.58	725.9	30.38	771.6	48	8.9	66	nw.	13	5.8			10 s		nw.	0.01	0.3	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.17	766.3	30.20	767.1	58.5	14.7	90	calm	0	0		8 c;cs	0	nw.		0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.15?	689.6?	29.92?	760.0?	53	11.7		w.	3	1.3		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.05	763.3	30.20	767.1	59.0	15.0	70	nw.	7	3.1		4 cs	hz.			0	0	fair	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.95	760.7	78.0	25.6	90	calm	0	0		2 c	2 ks	ne.	s.	0.84	21.3	fair	E. C. Imlay.
Buffalo, New York	29.47	748.5	30.20	767.1	57.3	14.1	71	e.	6	2.7			10 s		ne.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.55	725.2	30.53	775.4	42	5.6	67	nw.	18	8.0		0	3 s			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.69	754.1	30.09	764.3	62.1	16.7	92	w.	4	1.8		7 ck	3 s	w.	w.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.88	758.9	30.08	764.0	64.0	17.8	90	se.	21	9.4		0	0			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	68.0	20.0	84	ne.	26	11.6		2 cs	8 ks	sw.	ne.	0	0	cloudy	A. R. Alderson.
Cape May, New Jersey	30.14	765.5	30.16	766.1	59.0	15.0	87	ne.	10	4.5		3 ck	5 s			0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.31	744.5	29.99	761.7	65	18.3	48	calm			0	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.02	762.5	30.04	763.0	74.0	23.3	94	n.	12	5.4		2 cs	2 s	sw.	n.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.00	762.0	30.04	763.0	68.0	20.0	93	n.	14	6.3			10 s		n.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.16	766.1	59.2	15.1	91	n.	8	3.6			10 s		ne.	0.34	8.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.14	765.5	66.5	19.2	92	s.	4	1.8			10s;fg		s.	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.53	623.1	30.39	771.9	39.8	4.3	57	n.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.37	746.0	30.06	763.5	62.5	16.9	90	e.	4	1.8			10ks;s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	63	17.2	93	ne.	13	5.8			10 ks			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.08	764.0	66.5	19.2	82	se.	3	1.3			10 s			0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.42	747.3	30.14	765.5	58.5	14.7	81	se.	12	5.4			10 s		s.	0.08	2.0	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.28	743.7	30.12	765.0	59	15.0	81	e.	5	2.2		0	0			inap.	inap.	clear	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	30.02	762.5	62.0	16.7	93	ne.	20	8.9			10 s		ne.	1.95	49.5	threatening.	J. McGlone.
Custer, Fort, M. T	27.49	698.2	30.01	777.5	37	2.8	64	n.	3	1.3		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.41	747.0	30.06	763.5	58	14.4	87	ne.	2	0.9		5cs;ck	fg	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.33	643.4	30.03	762.7	57	13.9	83	n.	4	1.8			10 ks		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.62	726.9	30.37	771.4	31.5	— 0.3	71	ne.	2	0.9		3 c	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.89	657.6	30.45	773.4	43	6.1	76	ne.	1	0.4		0	5 s			0	0	fair	F. Des Willson.
Delaware Breakwater, Del	30.14	765.5	30.16	766.1	64	17.8	90	ne.	20	8.9		8 cs	0	ne.		0	0	cloudy	T. S. Townsend.
Denver, Colorado	25.27	641.8	30.38	771.6	52.0	11.1	52	n.	12	5.4			10 s		nw.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.22	742.2	30.11	764.8	60	15.6	93	calm	0	0		10 cs	sk.	nw.		0.03	0.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.46	748.3	30.15	765.8	61.0	16.1	84	ne.	4	1.8			10 s			0.09	2.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.63	701.8	30.18	766.6	62	16.7	90	nw.	6	2.7		0	2 s			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.39	746.5	30.09	764.3	58.3	14.6	78	e.	1	0.4			10 s		e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.30	745.7	30.10	764.5	53	11.7	86	calm	0	0		1 cs	8 ks		s	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.62	762.5	30.09	764.3	59.5	15.3	72	w.	6	2.7		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.43	696.7	30.12	765.0	55	12.8	93	nw.	8	3.6		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.43	671.3	30.08	764 0	60.0	15.6	84	ne.	6	2.7		0	0			0.15	3.8	clear	J. O'Dowd.
Erie, Pennsylvania	29.47	748.5	30.18	766.6	57	13.9	86	s.	5	2.2			10 n			0.13	3.3	light rain	C. A. Shaw.
Escanaba, Michigan	29.47	748.5	30.13	765 3	52.5	11.4	100	n.	4	1.8			fg.			0	0	dense fog	George Heathcote.
Galveston, Texas	29.95	760.7	29.99	761.7	80	26.7	82	s.	4	1.8			10 n		se.	0.18	4.6	light rain	E. O'C. Macnerney.
Grand Haven, Michigan	29.44	747.8	30.10	764.5	61.0	16.1	87	e.	5	2.2			10 s			0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.34	643.6	29.94	760.5	60.1	15.6	68	ne.	2	0.9		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	71.0	21.7	90	n.	24	10.7			10 s		ne.	0.02	0.5	cloudy	R. M. Crawford
Helena, Montana	26.37	669.8	30.54	775.8	52	11.1	55	sw.	4	1.8		0	0			0	0	clear	T. H. Jones.

Stations.	Barometer, Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.90	734.0	30.29	769.4	51.9	11.1	87	nw.	25	11.2		0	3 s			0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.04	763.0	66.0	18.9	84	se.	1	0.4			10 s		se.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29.98	761.5	78.0	25.6	97	se.	12	5.4		0	8 s		s.	0.93	23.6	cloudy	I. A. Reed.
Jacksonville, Florida	29.99	761.7	30.03	762.7	73.0	22.8	90	n.	9	4.0			10 s		n.	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.43	747.5	30.08	764.0	60.0	15.6	93	ne.	2	0.9		0	fg.			0	0	light fog	F. Z. Gosewisch.
Key West, Florida	29.93	760.2	29.95	760.7	80	26.7	79	ne.	6	2.7		3 ck	4 k	sw.	ne.	0.41	10.4	fair	A. W. Browne.
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	70	21.1	84	ne.	30	13.4			10ks;fg		ne	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.13	739.9	30.15	765.8	63.3	17.4	93	ne.	1	0.4		0	8 s			0.04	1.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.35	745.5	30.12	765.0	58	14.4	80	n.	4	1.8			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.22	742.2	30.10	764.5	58	14.4	86	calm	0	0		3 k	0	sw.		inap.	inap.	clear	T. S. Outram.
Lewiston, Idaho	29.61	752.1	30.44	773.2	40.0	4.4	73	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.77	756.1	30.08	764.0	63	17.2	93	calm	0	0		5 ck	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	60	15.6	87	calm	0	0		5 k	0	se.		0	0	fair	T. S. Collins.
Louisville, Kentucky	29.49	749.0	30.04	763.0	68	20.0	84	se.	1	0.4			10 ks		se.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.51	749.5	30.19	766.8	60	15.6	81	ne.	1	0.4			10 s		ne.	0.20	5.1	cloudy	Louis Duane.
Mackinaw City, Michigan	29.51	749.5	30.16	766.1	57.0	13.9	93	e	5	2.2			10 n		e.	0.03	0.8	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	70.0	21.1	90	ne.	16	7.2			10 s		ne.	0.22	5.6	cloudy	William Daly.
Maginnis, Fort, Montana	26.23	666.2	30.63	778.0	35	1.7	56	s.	6	2.7		5 c	0			0	0	fair	F. Burke.
Marquette, Michigan	29.44	747.8	30.16	766.1	50.0	10.0	93	calm	0	0			10 k		s.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.08	764.0	64	17.8	93	nw.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.10	764.5	60	15.6	100	e.	5	2.2			10n;fg			0.23	5.8	light rain	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.00	762.0	30.04	763.0	76.2	24.6	85	e.	4	1.8		7 cs	3 k	e.	e.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.87	758.7	30.10	764.5	69	20.6	90	e.	8	3.6			10 s		e.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.09	738.9	30.08	764.0	55	12.8	80	s.			2		10 s		s.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.11	612.4	30.26	768.6	49.0	9.4	47	nw.	10	4.5		5 c	0	w.		0	0	fair	S. W. Beall.
Nashville, Tennessee	29.50	749.3	30.08	764.0	67.0	19.4	90	se.	3	1.3		9 cs	0	sw.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	56	13.3	86	n.	8	3.6		7 c	0			0	0	fair	J. H. Sherman.
New London, Connecticut	30.17	766.3	30.22	767.6	56	13.3	86	n.	2	0.9		4 c	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	76.0	24.4	85	se.	1	0.4		5 c	2 k	nw.		inap.	inap.	fair	M. Herman.
New York, New York	30.05	763.3	30.22	767.6	64	17.8	78	n.	1	0.4		4 cs	3s;fg			0	0	fair	H. J. Peurod.
Norfolk, Virginia	30.09	764.3	30.12	765.0	67.0	19.4	00	ne.	10	4.5			10 s			inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.30	693.4	30.18	766.6	53.6	12.0	62	nw.	16	7.2		0	8 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.18	766.6	30.22	767.6	40.0	4.4	89	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.99	736.3	30.16	766.1	60.0	15.6	96	nw.	1	0.4			10 ks		n.	0.33	8.4	cloudy	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.92	760.0	30.24	768.1	57.0	13.9	93	calm	0	0		9 ck;k	hz.			0	0	cloudy	J. G. Linsley
Palestine, Texas	29.53	750.0	30.08	764.0	71.0	21.7	94	n.	8	3.6			10 ks		e.	0.07	1.8	threatening	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	76.2	24.6	82	ne	8	3.6		7c;cs	0	n.		0	0	fair	M. McGauran.
Philadelphia, Pa.	30.13	765.3	30.23	767.8	60	15.6	78	n.	5	2.2		8 cs	hz.	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.17	461.5	30.15	765.8	26	−3.3	84	ne.	16	7.2		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.38	746.2	30.17	766.3	60.0	15.6	81	calm	0	0			10 s		w.	0.02	0.5	cloudy	G. C. Schaeffer.
Poplar River, Montana					40	4.4	57	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.46	748.3	30.13	765.3	58.0	14.4	96	e.	2	0.9			10 s			0.08	2.0	cloudy	M. H. Perry
Portland, Maine	30.13	765.3	30.18	766.6	59.0	15.0	75	nw.	4	1.8		5c;cs	hz.	nw.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.09	764.3	30.16	766.1	65.0	18.3	48	e	6	2.7		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.90	632.4	30.00	762.0	53.5	11.9	70	s.	1	0.4		1 k	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.16	766.1	30.19	766.8	61	16.1	86	nw.	3	1.3		10 cs	sk.			0	0	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.64	752.8	29.99	761.7	66	18.9	40	n.	6	2.7		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.10	764.5	45	7.2	86	n.	1	0.4		0	0			0	0	clear	J. J. Naury.
Sacramento, California	29.90	759.4	29.97	761.2	63.0	17.2	68	calm	0	0		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.46	748.3	30.07	763.8	66.0	18.9	92	w.	6	2.7			10 ks		n.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.90	759.4	29.94	760.5	34	1.1	71	nw	16	7.2			10 s			inap.	inap.	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.23	742.4	30.08	764.0	59.0	15.0	87	se.	3	1.3			10 s		se.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.25	742.9	30.12	765.0	50	10.0	100	nw.	12	5.4			10 n		n.	0.38	9.7	light rain	C. B. Dilley
Salt Lake City, Utah	25.90	657.8	30.14	765.5	65	18.3	37	e.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.90	759.4	29.97	761.2	61.0	16.1	84	nw.	2	0.9		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.95	760.7	30.00	762.0	75	23.9	90	ne.	5	2.2		10 cs	0			0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.48	748.8	30.14	765.5	60	15.6	81	s.	6	2.7			10 s		s.	0.11	2.8	cloudy	B. F. Heugh.
Sandy Hook, New Jersey	30.18	766.6	30.20	767.1	63.0	17.2	78	e.	13	5.8		5 k	0	e.		0	0	fair	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	58	14.4	86	n	4	1.8		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.98	761.5	30.07	763.8	70.5	21.4	90	n.	9	4.0			10 ks		n.	0.03	0.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	20.91	683.5	30.52	775.2	29	−1.7	80	w.	3	1.3		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.84	757.9	30.08	764.0	68.0	20.0	93	ne.	3	1.3			10 s		ne.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.95	735.3	30.17	766.3	64	17.8	78	nw.	4	1.8		0	9 ks		nw.	0.04	1.0	cloudy	W. M. Mattingly.
Sitka, Alaska	29.78	756.4	29.84	757.9	51.5	10.8	80	e.	24	10.7			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.66	753.4	30.13	765.3	63.3	17.4	90	calm	0	0			10 s		se.	0	0	cloudy	J. B. Campbell
Smithville North Carolina	30.02	762.5	30.00	763.5	67.5	19.7	91	n.	9	4.0			10 s		ne.	0.18	4.6	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.37	720.6	30.41	772.4	38	3.3	73	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.38	746.2	30.05	763.3	64	17.8	90	ne.	10	4.5			9ks;s		w.	0	0	cloudy	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.12	688.8	30.08	764.0	58	14.4	100	nw	16	7.2			10 n		nw.	6.70	171.7	light rain	Louis Dorman.
Thomas, Camp, Arizona					61	16.1	42	se.			1	0	0			0	0	clear	R. O. Lord.
Toledo, Ohio	29.42	747.3	30.10	764.5	61	16.1	78	e.	5	2.2		4 ck	4 k	sw.	se.	0	0	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	30.00	762.0	30.02	762.5	41	5.0	73	nw.	10	4.5			10 n		nw.	0.22	5.6	light rain	Samuel Applegate.
Verde, Fort, Arizona					70	21.1	52	nw.			1	0	8 ks			0	0	cloudy	E. B. Montgomery.
Vicksburg, Mississippi	29.79	756.7	30.04	763.0	70.8	21.6	83	calm	0	0		0	9 s		w.	0	0	cloudy	James Kenesty.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.11	764.8	30.22	767.6	60.4	15.8	71	ne.	3	1.3			10 s		ne.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	20.40	670.5	30.22	767.6	56.5	13.6	45	n.	27	12.1		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.																			J. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	68.0	20.0	90	n.	9	4.0			10 s		ne.	0.24	6.1	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.92	734.6	30.21	767.3	56.3	13.5	79	nw.	23	10.3		0	3 s		nw.	inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.72	754.9	29.86	758.4	72.9	22.7	78	calm	0	0		0	1 k		sw.	0.01	0.3	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		nw.			1		1 k		n	0.02	0.5	clear	W. H. Jackson.
Bogota, U. S. C.	22.03	559.5			54.0	12.2	77	calm	0	0			9 s		w.	0.098	2.5		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.98	761.5	77.5	25.3	87	n.	1	0.4		8 c	2 s		e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	79	26.1	82	se.			2	5 ck	3 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	78	25.6	89	s.			2		10 ks		s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76.6	24.8	90	nw.			1	2 ck	ks	se.	nw.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory B. A.	29.89	759.2	29.96	761.0	35.5	1.9	95	n.	11	4.9		3 k	3 s	n.	n.	1.00	25.4		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 55′, E. 23° 42′	29.96	761.0	72	22.2	80	calm			0		9	nnw.				sm'h		showery.
H. M. S. Coquette, N. 36° 19′, E. 21° 00′	29.94	760.5	76	24.4		wsw.			2		3	wsw.				3	wsw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.99	761.7	79	26.1	82	ssw.			2		5	ssw.						d. clouds.
H. M. S. Flamingo, N. 51° 29′, W. 55° 27′	29.77	756.1	46	7.8	77	n.			2		2	n.				5	var.	d. clouds.
H. M. S. Griffon, N. 38° 20′, W. 71° 09′	30.12	765.0	71	21.7	75	ne.			4		3	wnw.				6	ene.	d. clouds.
H. M. S. Iris, off Port Said, Egypt	30.02	762.5	79	26.1	82	nnw.			3		2							d. clouds.
H. M. S. Tenedos, N. 49° 12′, W. 58° 27′	29.87	758.7	49	9.4	100	n.			4		5	n.				2	n.	d clouds.
H. M. S. Tyne, N. 33° 06′, W. 9° 29′	30.09	764.3	74	23.3	81	n.			2		0					3	wnw.	blue sky.
U. S. Navy Yard, Portsmouth, N.H.*	30.14	765.5	55	12.8	87	nw.	6.	2.7			2		nw.	0	0			fair.
U. S. S. Alliance, Halifax, N.S.	30.00	762.0	62	16.7	83	nw.			1		0			0	0	sm'h		clear.
U. S. S. Galena, N. 25° 52′, W. 62° 55′	29.97	761.2	80	26.7	96	se.			6		10		se.			r'gh	sse.	cloudy.
U. S. S. Jamestown, N. 30° 10′, W. 18° 45′	30.17	766.3	74	23.3	76	n.			3		2					sm'h	ne.	clear.
U. S. S. Kearsarge, N. 38° 47′, W. 10° 00′	30.15	765.8	68	20.0	90	w.			1		8					sm'h		fair.
U. S. S. Lancaster, Port Mahon, Minorca, Spain	30.06	763.5	79	26.1	86	se.			1		2		ne.			sm'h		fair.
U. S. S. Portsmouth, Hen & Chickens Light-ship, Mass	30.25	768.3	62	16.7	100	nw.			1		5		nw.					light haze.
U. S. S. Powhatan, St. Johns N.F.	29.70	754.4	52	11.1	93	nnw.			1		10		n.					misty.
U. S. S. Quinnebaug, Port Mahon, Minorca, Spain	30.17?	766.3?	76	24.4	73	sw.			1		0					sm'h		fair.
U. S. S. Saratoga, Lloyd's Point, Long Island	30.26	768.6	64	17.8	83	e.			2		2		e.	0	0	sm'h		fair.
U. S. S. Swatara, Charlottetown, P.E.I.	29.97	761.2	62	16.7	72	n.			2		2		n.	0	0	sm'h		clear.
U. S. S. Vandalia, Halifax, N.S.	30.01	762.2	60	15.6	100	n.			1		0							clear.
U. S. S. Yantic, St. Johns, N.F.	29.70	754.4	52	11.1	86	ene.			2		10							raining.
S. S. British Crown, N. 39° 07′, W. 72° 40′ †	30.16	766.1	70	21.1		ene.			3		2		e.	0	0	h'vy	ene.	clear.
S. S. British Princess, Liverpool, Eng†	29.79	756.7	57	13.9		e.			4		10		e.	7 h'r	7 h'r	mod.	e.	overcast.
S. S. Ohio, N. 43° 21′ W. 59° 24′†	29.93	760.2	57	13.9	94	wsw.			1		1		w.	0	0			clear.
S. S. Grecian, Glasgow, Scotland	29.87	758.7	58	14.4	88	e.			5		10			11 h'r	11 h'r			hazy
S. S. Nova Scotian, N. 39° 08′, W. 70° 32′	30.15	765.8	69	20.6		ne.			4		8		ne.			mod.	ne.	fair.
S. S. Polynesian, Montreal, Canada	30.24	768.1	63	17.2		calm			0		10			0	0			cloudy.
S. S. Prussian, N. 55° 20′. W. 7° 57′			58	14.4		e.			6		10		e.	18 h'r	18 h'r	cross	e.	raining.
S. S. Scandinavian, Lough Foyle, Ireland	29.74	755.4	56	13.3		ne.			6		10		ne.	9 h'r	9 h'r			misty.
S. S. Sardinian, N. 56° 37′ W. 35° 44′	29.98	761.5	52	11.1		e.			5		9		se.	1 h'r	1 h'r	r'gh	ene.	hazy.
S. S. Alvo, off Savanilla, U. S. C	29.84	757.9	77	25.0		se.			2		7		calm	0	0			dull.
S. S. Andes, N. 24° 56′, W. 67° 50′ *†	30.10?	764.5?	84	28.9		sse.			3		8		sse.	4 h'r	4 h'r	mod.	sse.	squally.
S. S. Avilla, Aux Cayes, Hayti, W.I*†	30.02	762.5	81	27.2		e.			1		5		e.	rain	rain	sm'h		
S. S. Australia, N. 41° 07′, W. 65° 11′*†	30.10	764.5	59	15.0		w.			4		2		n.	0	0			hazy.
S. S. Dorian, N. 40° 30′, E. 12° 03′	30.01	762.2	74	23.3		nw.			2		0			0	0	sm'h		clear.
S. S. Furnessia Liverpool, Eng†	29.81	757.2	67	19.4	84	ese.			3		10		ese.	8 h'r	8 h'r			hazy.
S. S. Cephalonia, N. 42° 55′, W. 55° 04′	29.85	758.2	68	20.0	90	w.			4		1		wsw.	0	0	sli't	w.	blue sky.
S. S. Bothnia, N. 50° 51′, W 22° 37′	29.55	750.6	61	16.1	94	n.			5		10		ne.	5 h'r	5 h'r	mod	nne.	hazy.
S. S. Pavonia, N. 40° 28′, W. 68° 05′*	30.09	764.3	67	19.4	74	e.			3		3		e.	0	0	sm'h		clear.
S. S. Scythia, N. 47° 44′, W. 38° 45′	29.45	748.0	61	16.1	88	ese.			6		10		ese.	4 h'r	4 h'r	sli't	ese.	cloudy.
S. S. Samaria, N. 45° 25′, W. 42° 25′*	29.15	740.4	64	17.8		ene.			7		9		e.	13 h'r	13 h'r	h'vy	ene.	cloudy.
S. S. Canada, N. 40° 37′, W. 71° 03′*	30.23	767.9	60.8	16		nw.			1		ks		nw.	0	0	sm'h	nw.	clear.
S. S. Bohemia, N. 43° 48′, W. 46° 11′†	29.54?	750.3?				nw.			3–8		6		nw.	0	0	h'vy	nw.	squally.
S. S. Gellert, N. 49° 00′, W. 28° 06′	29.60	751.8	56	13.3	75	ne.			3		6		ene.	0	0	mod.	ne	cloudy.
S. S. Rugia, N. 46° 51′, W. 42° 01′	29.25	742.9	59	15.0		e.			6		10		e.	3 h'r	3 h'r	mod	e.	drizzling.
S. S. Silesia, Hamburg, Germany			57.1	13.9		ne.			2		9		ne.	0	0			covered.
S. S. Westphalia, New York, N.Y.	30.22	767.6	62	16.7	100	ne.			1		5		ne.	0	0			fair.
S. S. City of Paris, Fire Island N.Y*	30.19	766.8				ene.			4		7			0	0	sli't	ese.	fine.
S. S. Nessmore, N. 47° 00′, W. 45° 33′*	29.43	747.5	55	12.8	100	nw.			5		10		nw.	12 h'r	12 h'r	sli't	nw.	raining.
S. S. Archimedes, N. 43° 21′. W. 45° 17′	29.39	746.5				wnw.			7–8		10		nnw.	light	light	h'vy	wnw.	drizzling.
S. S. Hevelius, N. 23° 00′, W. 23° 09′	30.00	762.0	79	26.1		ne			6		5?		ne.	0	0	sm'h		clear.?
S. S. Teniers, N. 15° 30′, W. 25° 35′	29.95	760.7	79.3	26.3	81	n.			5	c	4 k		nnw.	0	0	4	n.	d. clouds.
S. S. Sirius, N. 38° 00′. W. 10° 15′	30.08	764.0				wsw.			2		2		wsw.	3 h'r	3 h'r	long	wnw.	clear.
S. S. Rio Grande, N. 32° 47′. W. 76° 53′†	30.01	762.2	82	27.8		ne.			5		9		nne.	1 h'r	1 h'r	h'vy	ne.	gloomy.
S. S. Chalmette, New York, N. Y†	30.22	767.6	60	15.6		n.			4		3			0	0			clear.
S. S. New York, N. 32° 40′ W. 77° 30′*†	30.02	762.5	78	25.6		ne.			6		10		ne.	0	0	long	ne.	cloudy.
S. S. Lone Star, N. 38° 16′, W. 74° 24′ *†	30.18	766.6	68	20.0		ne.			2		5		ene.	0	0	r'gh	ne.	hazy.
S. S. Alleghany, Block Island, R.I†	30.23	767.8	62	16.7		calm			0		0			0	0	long	se.	hazy.
S. S. Archimede, Palermo, Sicily†	30.08	764.0	78	25.6		nnw.			3		3		nw.	1 h'r	1 h'r			clear.
S. S. City of Merida. N. 22° 43′, W. 84° 30′*†	29.58	761.5	84	28.9		ne.			2		5		sw.	1 h'r	1 h'r	mod	ne.	fine.
S. S. City of Washington, Vera Cruz, Mexico*†	29.85	758.2	84	28.9		n.			2		2		n.	1 h'r	1 h'r	sm'h		fine.
S. S. Cienfuegos, St. Jago, W.I*	29.96	761.0	80	26.7		n.			1		2							hazy.
S. S. Denmark, New York, N. Y.			62	16.7		nw.			3		4			0	0			fair
S. S. England, N. 44° 00′, W. 45° 08′	29.39	746.5				nnw.			7		5		nnw.	sq'lls	sq lls	high	nuw.	squally.
S. S. Greece, N. 44° 27′, W. 43° 45′	29.24	742.7	62	16.7	83	nne.			7		10		nne.	9 h'r	9 h'r	mod.	var	raining.
S. S. The Queen, N. 42° 42′, W. 53° 08′	29.75	755.6	55?	12.8?		w.			5		8		wnw.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Donau, N. 49° 38′ W. 18° 27′	29.42	747.3				wsw.			4		5		w.	0	0	mod	wsw.	fair.
S. S. Elbe, N. 42° 33′, W. 59° 22′	29.93	760.3	63.5	17.5	85	wnw.			6		0			0	0	mod.	wnw.	clear.
S. S. Hermann, N. 47° 13′, W. 43° 51′	29.37	746.0	57.2	14.0	66	e.			5		10		e.	6 h'r	6 h'r	mod.	e.	rainy.
S. S. Main, N. 40° 31′, W. 68° 54′	30.17	766.3	78.8	26.0		n.			1		0			0	0	sm'h		clear.
S. S. Ohio, N. 45° 07′, W. 44° 45′	29.15	740.4				var.			6		4		ne.	6 h'r	6 h'r	h'vy	n.	fair.
S. S. Rhein, N. 49° 50′ W. 13° 34′	29.48	748.8	59.0	15.0		wnw.			4		6		wsw.	2 h'r	2 h'r	mod.	wsw.	fair
S. S. Strassburg, N. 52° 13′, E. 3° 10′	29.77	756.1	63.5	17.5	83	s.			2		8		wsw.	0	0	1	s.	hazy
S. S. Werra, N. 41° 40′. W. 66° 39′	30.16	766.1	55.4	13.0		w.			2–3		4		wnw.	0	0	sm'h	w.	fair.
S. S. Weser, N. 33° 33′ W. 57° 58′	30.11	764.8	62.6	17.0		calm			0		8			1 h'r	1 h'r	sm'h		cloudy.
S. S. City of Augusta, Savannah, Ga†	30.08	764.0				nne.			3		10		ne.	0	0			clear?
S. S. Muriel, St. Thomas, W.I.	29.97	761.2	84	28.9		se.			3		0			0	0	sm'h		clear.
S. S. Orinoco, New York, N.Y.			68	20.0		n.			1		0			0	0			hazy.
S. S. Pennland, N. 50° 00′, W. 32° 54′			59	15.0	88	se.			4		7		se.	sh'rs	sh'rs	mod.	w.	fair.
S. S. Switzerland, N. 50° 01′, W. 4° 05′*†	29.79	756.7				s.			3		10		s.	0	0	long	wsw.	cloudy.
S. S. Vaderland, Antwerp, Belgium			68	20.0		se.			2		8		sw.	1 h'r	1 h'r			cloudy.
S. S. Waesland, N. 46° 43′, W. 46° 17′	29.55?	750.6?	49	9.4		nnw.			7		10		sw.	2 h'r	2 h'r	r'gh	var.	rainy.
S. S. P. Caland, Jersey City, N.J.	30.24	768.1	63.5	17.5	88	n			1									hazy.
S. S. W. A. Scholten, Rotterdam, Holland			64.4	18.0	85	sw.			1		4		e.					squally.
S. S. Caracas, La Guayra, Venezuela*†	30.00	762.0	84	28.9	83	calm			0		0			0	0	light	ne.	clear.
S. S. State of Georgia, N. 51° 02′, W. 40° 05′	29.54	750.3	55	12.8		ene.			5		7		ene.	light	light	light	ene.	showery.
S. S. State of Indiana, N. 51° 52′ W 37° 13′*†	29.65	753.1	53	11.7		e.			4		7		e.	0	0	mod.	e.	fair.
S. S. State of Nevada, Glasgow, Scotland †	29.86	758.4	56	13.3		ne.			6		10		ne.	7 h'r	7 h'r			cloudy.
S. S. Thingvalla, Horten, Norway			61.7	16.5		n.			5		3		n.	0	0			clear.
S. S. Romano, N. 48° 49′, W. 13° 44′			60	15.6		w.			5		4		w.	0	0	mod.	w.	fair.
S. S. Salerno, N. 45° 22′, W. 43° 16′ *†	29.15	740.4	60	15.6		ene.			9		10		ene.	2.0	51.	h'vy	e.	raining.
S. S. Dominion, N. 52° 28′, W 53° 08 *†	29.84	757.9	42	5.6		nw.			3		10		wnw.			sm'h	wnw.	cloudy.
S. S. Oregon, Montreal, Canada	30.17	766.3	66	18.9		sw.			2		0					short	w	clear.
S. S. Texas, N. 50° 57′, W. 57° 46′*†	29.83	757.7	43	6.1	75	wnw.			3		10			0	0	sm'h		overcast.
S. S. Lake Manitoba, Liverpool, Eng	29.64	752.8	57	13.9		se.			4		10		se.	8 h'r	8 h'r			
S. S. Daniel Steinmann, Antwerp, Belgium*†	29.82	757.4	07	19.4		ene.			3		6		e.	0	0			hazy.
S. S. Saxon, Philadelphia, Pa†	30.21	767.3				nne.			2		10			0	0			overcast.
S. S. Adriatic, N. 49° 10′, W. 25° 58′*†	29.72?	754.9?	59	15.0		nne.			4				n.	0	0	sm'h	n.	misty.
S. S. Celtic, Liverpool, Eng†	29.73	755.1	63	17.2	83	se.			4		10		se.	5 h'r	5 h'r	sm'h		raining.
S. S. Republic, N. 40° 40′, W. 71° 10′ *†	30.16	766.1	64	17.8	89	calm			0		8		w.	0	0	sm'h		d. clouds.
S. S. Iowa, N. 50° 37′, W. 38° 25′†	29.60	751.8	54	12.2		e.			4		8		e.	1 h'r	1 h'r	light	ne.	cloudy.
S. S. Amsterdam, N. 41° 49′, W. 63° 50′*	30.02	762.5	60.8	16		nw.			2									fair.
S. S. City of Alexandria, N. 23° 10′ W. 83° 20′ *†	29.93	760 2	84	28.9		e.			1									d. clouds
Bk. Arda, N. 50° 03′, W. 13° 25′†	29.41	747.0				var.			4		2?		w.	5 h'r	5 h'r	r'gh	w.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Alpheus Marshall, N. 32° 15′, W 40° 30′*†.....	29.99	761.7	78	25.6	100	wsw.	.....	.....	5	.....	9	.....	wsw.	2 h'r	2 h'r	mod.	wsw.	threatening.
Bk. Ariadne, N. 37° 53′, W. 66° 51′.....	30.14	765.5	75	23.9	77	e.	.....	.....	3	.....	5	.....	ese.	o	o	cross	var.	fair.
Schr. Arthur Burton, Boston, Mass†.....	30.23	767.8	.....	.....	.....	nw.	.....	.....	1	.....	mist.	.....	calm	o	o	sm'h	.....	clear.
Schr. Abbie H. Gheen, Chatham, Mass.†	30.23	767.8	62	16.7	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	smoky.
S. S. Antonio Lopez, N. 42° 32′, W. 15° 13′.....	29.90	759.4	66.5	19.2	81	wsw.	.....	.....	4	.....	6	.....	.....	½h'r	½h'r	mod.	wsw.	fair.
Bgt Achsah, N. 37° 47′, W. 66° 09′†	30.08	764.0	77	25.0	.....	ene.	.....	.....	4	.....	2	.....	ene.	3 h'r	3 h'r	cross	e.	clear.
Bk. Aureola, N. 4° 20′, W. 23° 50′ †.....	29.91	759.7	86	30.0	.....	ssw.	.....	.....	5	.....	8	.....	sse.	o	o	h'vy	se.	cloudy.
Bk. Adelaide, N. 14° 56′, W. 41° 34′*†.....	30.02	762.5	.....	.....	.....	se.	.....	.....	4	.....	1	.....	se.	1 h'r	1 h'r	mod.	e.	clear.
Bg. Belle of the Bay, N. 24° 23′, W. 79° 15′†	29.96	761.0	.....	.....	.....	nw.	.....	.....	5	.....	8	.....	ne.	o	o	sm'h	ne.	threatening.
S. S. Cannonbury, San Juan, Porto Rico, W. I*†	30.00	762.0	.....	.....	.....	calm	.....	.....	0	.....	3	.....	e.	½h'r	½h'r	sm'h	.....	clear.
Bk. Ceylon, N. 36° 47′, W. 52° 14′†.....	29.98	761.5	76	24.4	73	nnw.	.....	.....	5	.....	3	.....	nnw.	o	o	r'gh	nw.	clear.
Schr. C. R. Flint, N. 31° 56′, W. 58° 58′ †.....	30.10	764.5	78	25.6	.....	ene.	.....	.....	3	.....	10	.....	ese.	1 h'r	1 h'r	mod.	ese.	light rain.
Bk. Cato, N. 40° 35′, E. 2° 35′ †.....	30.03	762.7	.....	.....	.....	s.	.....	.....	4	.....	3?	.....	ssw.	.....	.....	.....	.....	cloudy?
Bk. Don Justo, N. 51° 50′, W. 36° 45′	.....	.....	.....	.....	.....	ese.	.....	.....	1	.....	10	.....	ese.	.....	.....	mod.	ese.	
Bk. Childwall, N. 17° 25′, W. 25° 47′.....	.....	.....	79	26.1	95	n.	.....	.....	6	.....	8	.....	n.	o	o	sm'h	n.	cloudy
S. S. D. J. Foley, N. 36° 18′, W. 75° 00′*†.....	30.07	763.8	72	22.2	90	nne.	.....	.....	4	.....	5	.....	nne.	o	o	cross	var.	fair.
Bkt. David A. Preston, Windsor, N. S.....	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	
Bk. Diamant, N. 37° 35′, W. 63° 28′.....	30.12	765.0	73.9	23.3	80	ene.	.....	.....	3	.....	4 k	.....	.....	o	o	3	ne.	fair.
S. Dynomine, N. 47° 00′, W. 11° 00′.....	29.56	750.8	61	16.1	82	sw.	.....	.....	6	.....	6	.....	.....	mod.	mod.	r'gh	wsw.	showery.
S. Dora, N. 40° 07′, W. 64° 56′*†.....	30.12	765.0	65.3	18.5	.....	nnw.	.....	.....	3–4	.....	.....	.....	.....	o	o	sm'h	n.	blue sky.
S. David Stewart, N. 24° 58′, W. 63° 50′.....	.....	.....	86	30.0	.....	var.	.....	.....	3	.....	3	.....	ssw.	o	o	mod.	sse.	clear
S. E. J. Spicer, Antwerp, Belgium.....	29.72?	754.9?	63	17.2	89	sw.	.....	.....	2	.....	5	.....	sw.	o	o	.....	.....	fair.
Schr. Edith R. Seward, Brunswick, Ga†.....	30.06	763.5	72	22.2	.....	nne.	.....	.....	3	.....	6	.....	nne.	½h'r	½h'r	.....	.....	fair.
Bk. E. D. Bigelow, Galveston, Texas†.....	30.01	762.2	87	30.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	o	o	.....	.....	gloomy.
Bk. Edmund Phinney, N. 37° 48′, W. 72° 20′†.....	30.12	765.0	75	23.9	.....	ene.	.....	.....	6	.....	5	.....	.....	light	light	r'gh	ene.	fair.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†...	30.23	767.8	62	16.7	.....	sw.	.....	.....	1	.....	4	.....	calm	o	o	.....	.....	clear.
S. Gatherer, N. 15° 39′, W. 32° 30′*.....	29.96	761.0	81	27.2	70	nne.	.....	.....	3	.....	1	.....	n.	o	o	sm'h	se.	clear
Bg. George, Arroyo, Porto Rico, W. I*†.....	29.98	761.5	81	27.2	.....	ene.	.....	.....	1	.....	2	.....	ene.	o	o	.....	.....	fair.
Bk. Galeon, N. 33° 18′, W. 14° 05′†.....	30.15	765.8	74	23.3	.....	n.	.....	.....	2	.....	0	.....	.....	o	o	.....	nw.	blue sky.
Bk. Grey Eagle, N. 14° 25′, W. 40° 12′.....	.....	.....	.....	.....	.....	sse.	.....	.....	1	.....	1	.....	e.	o	o	short	ne.	clear.
S. Hedwig, N. 32° 25′, W. 11° 42′.....	30.15	765.9	73.6	23.1	85	nne.	.....	.....	4	.....	8	.....	nne.	2 h'r	2 h'r	3	var.	light rain.
Schr. Isabel Alberto, Cedar Keys, Fla.†.....	30.03	762.7	.....	.....	.....	ene.	.....	.....	2	.....	3	.....	e.	o	o	.....	.....	clear.
Bk. Johanne, N. 54° 31′, W. 28° 21′*†.....	29.92	760.0	56	13.3	.....	ese.	.....	.....	4	.....	8	.....	e.	5 h'r	5 h'r	mod.	ese.	fine.
Schr. John L. Thomas, N 31° 56′, W. 78° 00′ *†.....	30.00	762.0	83	28.3	83	calm	.....	.....	0	.....	3	.....	.....	o	o	h'vy	ne.	threatening.
Schr. Jennie N. Huddell, Delaware Bay †.....	30.29?	769.4?	63	17.2	94	ne.	.....	.....	5	.....	5	.....	sw.	o	o	.....	.....	fair.
Bg. Josefa, N. 50° 38′, W. 24° 45′†.....	29.60	751.8	.....	.....	.....	n.	.....	.....	5	.....	9	.....	n.	4 h'r	4 h'r	cross	var.	drizzling.
Bkt. Kryolith, N. 54° 18′, W. 52° 14′ *†.....	29.84	757.9	.....	.....	.....	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	long	e.	hazy.
Bk. Lady Hincks, N. 28° 46′, W. 27° 40′ *†.....	30.13	765.3	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	o	o	.....	.....	fair.
Bg. L. & W. Armstrong, N. 31° 56′, W. 65° 02′ *†.....	30.00	762.0	.....	.....	.....	e	.....	.....	2	.....	2	.....	ene.	o	o	sm'h	ene.	fine.
S. S. Madrid, Kertch, Russia†.....	29.82	757.4	78	25.6	86	e	.....	.....	1	.....	8	.....	.....	o	o	.....	.....	fair.
Bk. Orpheus, N. 47° 51′, W. 44° 20′.....	29.23?	742.1?	52	11.1	.....	nw.	.....	.....	7	.....	10	.....	.....	18 h'r	18 h'r	mod.	ne.	raining.
Schr. Rollin Sanford, off Cape Romano, Fla.†	29.92	760.0	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	n.	o	o	.....	.....	squally.
Bg. Rising Sun, N. 39° 38′, W. 73° 53′†.....	30.15	765.8	70	21.1	.....	ene.	.....	.....	4	.....	2	.....	sw.	o	o	long	ene.	clear.
Bk. Rosalie, N. 48° 08′, W. 13° 18′*†.....	29.55	750.6	.....	.....	.....	wsw.	.....	.....	6	.....	4	.....	wsw.	10 h'r	10 h'r	long	sw.	fair.
Schr. S. B. Hubbard, Doboy Island, Ga.†.....	30.06	763.5	80	26.7	.....	nne.	.....	.....	5	.....	.....	.....	.....	rain	rain	.....	.....	threatening
Bk. Saga, N. 64° 32′, E. 21° 31′ *†.....	30.07?	763.8?	46	7.8	.....	n.	.....	.....	5	.....	3	.....	n.	o	o	cross	nne.	clear.
Bgt. Sunlight, N. 18° 54′, W. 61° 45′*†.....	30.02	762.5	.....	.....	.....	ene.	.....	.....	3	.....	2	.....	ene.	o	o	sm'h	.....	clear
Bk. Samuel B. Hale, N. 42° 45′, W. 68° 45′*†.....	30.20	767.1	.....	.....	.....	nw.	.....	.....	1	.....	.....	.....	sw.	o	o	sm'h	.....	hazy.
Bk. St. Lawrence, N. 35° 57′, W. 64° 22′*†.....	30.00	762.0	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	sw.	o	o	.....	var.	cloudy.
Bg. Teneriffe, N. 41° 15′, W. 66° 50′ *.....	30.22	767.6	.....	.....	.....	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	fine.
Bk. Tuck Sing, N. 29° 30′, W. 79° 47′ *†.....	29.90	761.0	.....	.....	.....	nnw.	.....	.....	2	.....	0	.....	.....	o	o	light	n.	fine.
Schr. Viola Reppard, Brunswick, Ga†	30.03	762.7	78	25.6	.....	ne.	.....	.....	4	.....	9	.....	ne.	o	o	.....	.....	cloudy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 13° 40′, W. 38° 25′.....	30.05	763.3	75.8	24.3	82	ene.	.....	.....	2	.....	3	ene.	.....	.....	.....	1	ene.	blue sky.
H. M. S. Opal, St. Helena, Africa.....	30.17	766.3	69	20.0	90	ese.	.....	.....	4	.....	4	ese.	.....	.....	.....	.....	.....	d clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.80	756.9	59.5	15.3	91	nne.	.....	.....	3–5	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
H. P. M. S Rainha de Portugal, Landana, L. Guinea..	29.97	761.2	75.6	24.2	78	ssw.	.....	.....	3	.....	8	ssw.	.....	o	o	3	.....	gloomy.
H. P. M. S. Bengo, Zaire, Lower Guinea.....	29.96	761.0	76.8	24.9	85	sw.	.....	.....	3	.....	10	.....	.....	o	o	1	.....	overcast.
U. S. S. Brooklyn, Montevideo, Uruguay *.....	29.78	756.4	60	15.6	94	nne.	12	5.4	.....	.....	10	.....	ne.	0.04	1.0	sm'h	.....	drizzling.
U. S. S. Nipsic, Montevideo, Uruguay *	29.73	755.1	60	15.6	80	nne.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	misty.
S. S. Hohenstaufen, S. 16° 57′, W. 38° 14′	30.12	765.0	73.4	23.0	100	e.	.....	.....	4	.....	7	.....	e.	o	o	mod	e.	fair.
Bk. E. L. Pettingill, S. 15° 02′, W. 36° 35′*†.....	30.20	767.1	76	24.4	.....	ese.	.....	.....	3	.....	2	.....	se.	o	o	sm'h	sse.	
Bk. Great Surgeon, S. 37° 34′ W. 2° 32′*†.....	30.36	771.1	55	12.8	.....	wnw.	.....	.....	3	.....	8	.....	wnw.	1 h'r	1 h'r	long	sw.	cloudy.
Bk. Godeffroy, S. 56° 31′, W. 64° 40′.....	.....	.....	33.8	1.0	72	wsw.	.....	.....	9	.....	8	.....	wsw.	snow	snow	cross	sw.	squally.
Schr. Jas. Slater, S. 0° 50′, W. 48° 12′†.....	29.99	761.7	83	28.3	.....	e.	.....	.....	2	.....	2	.....	e.	o	o	.....	.....	hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata.....	29.86	758.4	55	12.8	.....	sw.	.....	.....	7	.....	.....	.....	se.	6 h'r	6 h'r	chop	sw.	raining.
Bgt. Willie, S 4° 33′, W. 31° 50′*†.....	30.04	763.0	82	27.8	.....	se.	.....	.....	5	.....	2	.....	se.	o	o	r'gh	se.	clear.
Bk. Mohican, S. 8° 40′, W. 34° 30′.....	30.02	762.5	81	27.2	.....	sse.	.....	.....	4	.....	2	.....	se.	o	o	long	ssw.	smoky.
S. S. Olbers, Rio de Janeiro, Brazil...	30.09	764.3	71	21.7	92	calm	.....	.....	0	.....	6	.....	n.	o	o	sm'h	.....	dull.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.23	767.8	62	16.7	.....	ssw.	.....	.....	3	.....	4	s.	.....	.....	.....	1	wsw.	d. clouds.
Bg. John Wesley, S. 12° 32′, W. 35° 14′*†.....	30.02	762.5	78	25.6	.....	nne.	.....	.....	1	.....	8	.....	n.	¾ h'r	¾h'r	mod.	n.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Olga Bay, Siberia.....	29.90	759.4	50	10.0	86	ne.	.....	.....	1	.....	0	.....	.....	.....	.....	sm'h	.....	blue sky.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 36′.....	29.89	759.2	70	21.1	80	n.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	blue sky
H. M. S. Magpie, N. 5° 50′ E. 118° 07′.....	29.89	759.2	83.3	28.5	77	wnw.	.....	.....	1	.....	2	.....	nnw.	.....	.....	.....	.....	blue sky
H. M. S. Mutine, N. 3° 10′, W. 93° 00′.....	29.93	760.2	75	23.9	.....	ssw.	.....	.....	4	.....	10	.....	.....	.....	.....	2	ssw.	overcast.
H. M. S. Zephyr, N. 42° 18′, E. 138° 26′.....	29.91	759.7	62?	16.7?	94	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. P. M. S. Tamega, Canton, China	29.86	758.4	80.6	27.0	88	nw.	.....	.....	2	.....	3	.....	.....	o	o	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan.....	29.86	758.4	60	15.6	97	n.	.....	.....	3	.....	10	.....	ene.	0.96	24.4	.....	.....	raining
U. S. S. Essex, Roze Island, Corea	29.91	759.7	72	22.2	90	nw.	.....	.....	1	.....	2	.....	.....	.....	.....	sm'h	.....	clear.
U. S. S. Hartford, N. 6° 14′, W. 79° 23′ *.....	29.78	756.4	79	26.1	86	calm	.....	.....	0	.....	7	.....	.....	o	o	sm h	.....	
U. S. S. Monocacy, Che Foo, China.....	29.93	760.2	72	22.2	62	ssw.	.....	.....	1	.....	10	.....	calm	.....	.....	mod	s.	cloudy.
U. S. S. Palos, Hong Kong, China	29.85	758.2	80	26.7	91	ene.	.....	.....	1	.....	2	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Pensacola, N. 19° 47°, E 169° 04′*..	29.85	758.2	82	27.8	79	se.	.....	.....	1–2	.....	7	.....	ese.	o	o	sm'h	.....	fair.
U. S. S. Richmond, Yokosuka, Japan.....	29.75	755.6	66	18.9	89	n.	.....	.....	5	.....	10	.....	n.	0.90	22.9	.....	.....	raining.
S. S. Coptic, N. 43° 10′, W. 136° 14′.....	30.11	764.8	65.0	18.3	84	var.	.....	.....	2	.....	4	.....	se.	o	o	mod.	var.	clear.
S. S. Oregon, Columbia River, Oregon†.....	30.17	766.3	59	15.0	88	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Willamette, N. 42° 28′. W. 124° 54′†.....	30.00	763.5	55	12.8	93	nw.	.....	.....	1	.....	0	.....	.....	o	o	long	n.	fog; haze.
S. S Ancon, N. 34° 40′, W. 120° 44′†.....	29.96	761.0	56	13.3	94	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	mod.	wnw.	foggy.
S. S. State of California, N. 44° 40′, W. 124° 20′†.....	30.07	763.8	60	15.6	60	n.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	nw.	clear
S. S. Queen of the Pacific, Hunter's Point, Cal.†.....	29.81	757.2	50	10.0	.....	calm	.....	.....	0	.....	2	.....	.....	o	o	.....	.....	clear.
S. S. Victoria, San Francisco, Cal†.....	29.88	758.9	60	15.6	88	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	fair.
S. S. City of Pekin, N. 41° 10′, E. 151° 04′ †.....	29.90	759.4	66	18.9	79	nw.	.....	.....	2	.....	5	.....	nnw.	o	o	mod.	var.	fair.
S. S. City of Tokio, Hong Kong, China†.....	29.90	759.4	82	27.8	96	se.	.....	.....	1	.....	8	.....	se.	2 h'r	2 h'r	.....	.....	cloudy
S. S. City of Rio de Janeiro, N. 34° 23′, E. 139° 05′†.....	29.81	757.2	69	20.6	85	nne.	.....	.....	6	.....	10	.....	nne.	0.1	3.	mod.	nne.	raining.
S. S. Colima, N. 37° 38′. W. 122° 40†	29.93	760.2	57	13.9	94	baff	.....	.....	2	.....	10	.....	nw.	o	o	mod.	nw.	overcast.
S. S. Granada, Panama, Panama†.....	29.93	760.2	80	26.7	82	calm	.....	.....	0	.....	7	.....	n.	3 h'r	3 h'r	light	s.	rainy.
S. S. San Blas, N. 23° 35′, W. 111° 10′†.....	29.86	758.4	74	23.3	.....	nne.	.....	.....	5	.....	7	.....	nne.	o	o	mod.	nw.	cloudy.
S. S. Zealandia, N. 1° 00′, W. 105° 27′†.....	30.00	762.0	81	27.2	91	ese.	.....	.....	4	.....	hz	.....	.....	.....	.....	sm'h	.....	clear.
S. S. San Juan, N. 16° 55′, W. 99° 48′.....	.....	.....	79	26.1	.....	ne.	.....	.....	4	.....	7	.....	nne.	20 h'r	20 h'r	long	nnw.	fine.
S. Armenia, N. 7° 20′, W. 114° 40′*.....	29.82	757.4	80	26.7	87	s.	.....	.....	3	.....	10	.....	.....	4 h'r	4 h'r	mod.	se.	overcast.
S. Storm King, N. 25° 20′, W. 123° 15′*†.....	30.05	763.3	.....	.....	.....	n.	.....	.....	3	.....	9	.....	n.	o	o	long	nnw.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Saint David, N. 42° 52′, W. 137° 40′*†	30.25?	768.3?	68.3	20.2	95	sse.			2		10		s.	2 h'r	2 h'r	light	sw.	drizzling
S. E. B. Sutton, N. 34° —′, W. 123° —′*†	30.04	763.0				nw.			3		hz.			o	o	cf'd	nw.	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 08′, E. 156° 08′	29.92	760.0	79.3	26.3	93	ese.			1		8					3	se.	d. clouds.
U. S. S. Iroquois, Callao, Peru	30.06	763.5	61	16.1	88	calm			0		10							cloudy.
U. S. S. Lackawanna, Arica, Peru *	29.95	760.7	61	16.1	77	calm			0		10							cloudy.
U. S. S. Onward, Callao, Peru *†	30.12	765.0	60	15.6	88	calm			0		10							misty.
U. S. S. Wachusetts, Callao, Peru*	30.00	762.0	60	15.6	100	calm			0		10							overcast.
S. S. City of Sydney, Sydney, N. S. W*†	30.11	764.8	59	15.0	82	sw.			1		2 k		sw.					clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.03	762.7	64	17.8		se.			2					o	o	mod.	sse.	dense fog.
S. David Crocket, S. 46° 15′, W. 103° 59′*	29.62	752.3	45.5	7.5	88	ese.			8–9		10		ese.	16h'r	16 h'r	h'vy	ese.	drizzling.
S. Sovereign of the Seas, S. 28° 33′, W. 91° 29′*†	30.10	764.5	63	17.2	89	n.			5		8		nw.	o	o	long	ssw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 21° 20′, E. 49° 10′	30.22	767.6				ene.			2		5	ese.				5	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.05	763.3	78	25.6	82	nne.			2		2	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	77	25.0	91	ese.			3		2	ese.				2	ese.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.88	758.9	97.5	36.4	48	wsw.			1		0							blue sky.
U. S. S. Iuniata, Batavia, Java	29.93	760.2	83	28.3	100	nnw.			1		2		calm	o	o	sm'h		fair.
S. S. Galatia, N. 7° 52′ E. 82° 50′†	29.79	756.7	84	28.9	83	ssw.			4		5		sw.	4 h'r	4 h'r	mod.	ssw.	clearing.
S. S. Benledi, N. 9° 15′, E. 62° —′*	29.86	758.4	82.5	28.1	79	wsw.			4		4		wsw.	rain	rain	cross	var.	fair.
Bk. Pilgrim, S. 33° 45′, E. 27° 20′*†	30.30	769.6				e.			5		9		e.	8 h'r	8 h'r	light	wsw.	cloudy.

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 21, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.4	79.9	26.6	82	se.			1		0			0	0	clear	Roziere.
Algiers			30.03	762.8	81.7	27.6	54	nnw.			4		0			0	0	clear	Thève.
La Galle			30.02	762.5	81.3	27.4	60	e.			1		0			0	0	clear	Fonfrède.
Tunis			30.09	764.2	71.2	21.8	89	ene.			2		0			0	0	clear	Delord.
Saida			30.08	764.1															Pérès.
Tebessa			30.09	764.3	78.8	26.0	30	s.			3		0			0	0	clear	St. Martin.
Geriville					91.4	33.0	9	nw.			1		1			0	0	very fair	Forfert.
Laghouat			30.06	763.5	89.2	31.8	35	e.			1		3			0	0	pretty fair	Abraham.
Biskra			30.10	764.4	92.5	33.6	30	se.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.08	761.5	52.0	11.1	87	s.	4	1.8			1 s			0	0	fine	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.77	756.1	29.86	758.4	59.9	15.5	54	ne.	18	8.0			2			c	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744.0	29.82	757.3	74.8	23.8	47	sw.			5		3			0.583	14.8		Prof. Ivan Stozir.
Oracow, I. R Observatory	28.97	735.7	29.71	754.6	66.2	19.0	63	nw.	6.3	2.8			4			0.039	1.0		Dr. Wierzbiski
Eperies	28.92	734.6	29.78	756.4	63.3	17.4	72	s.			2	5 cs	fg.			map.	map.		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.48	723.3	29.86	758.4	67.6	19.8	48	n.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.49	723.6	29.80	756.8	61.9	16.6	84	calm			0		10			0.335	8.5	raining	The Staff.
Lemberg	28.79	731.2	29.74	755.4	65.8	18.8	51	w.			5		6			0.405	11.8		Dr. T. Stanecki.
Pola	29.79	756.6	29.89	759.3	75.0	23.9	62	wsw.			3		7			0	0		I. R. Hydrographic Office.
Szathmar	29.33	745.0	29.78	756.4	67.6	19.8	59	sw.			4		6			0.063	1.6		Joseph Midlinszky, S. J
Szegedin	29.56	750.8	29.83	757.6	71.0	22.0	59	s.			3		7			0	0		Karl Stu[illegible]cel.
Trieste	29.84	757.9	29.94	760.4	76.6	24.8	65	sw.			1		10			0	0		Royal Academy.
Vienna	29.10	739.1	29.80	756.8	66.6	19.2	68	w.			3		10			0.480	12.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.91	759.7	53.7	12.1	81	[illegible]	14	6.3			7			0.010	0.3	d. clouds	W. Roswell.
Armagh, Observatory	29.51	749.5	29.73	755.1	59.2	15.1	73	ene.	10	4.5			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.72	754.9	61.0	16.1	80	ese.	4	1.8			10					overcast	John Hartnup.
Bolton, Sharples	29.20	741.7	29.72	754.9	57.0	13.9	84	ene.	6	2.7			9					misty	Thomas Mackereth.
Bradford, Yorkshire	29.35	745.5	29.74	755.4	55.6	13.1	89	ne.			3		10			0.03	0.8	raining	M'Landsborough & Preston.
Bridgetown, Barbadoes	29.89	759.2	29.92	760.0	86.0	30.0	68	ne.			1		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.03	752.6	29.74	755.4	56.6	13.7	90	nw.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.57	751.1	29.74	755.4	56.7	13.7	87	sw.			1		9			blank	blank	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.52	749.8	29.75	755.6	62.5	16.9	80	sse.			1		5					d. clouds	The Staff.
Fort Napier, Natal	27.71	703.8	29.94	760.5	85.5	29.7	37	n.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.61	752.1	29.85	758.2	87.0	30.6	84	e.			1		7					d. clouds	J. W. Smith.
Galway, Queen's College	29.50	749.3	29.54	750.3	57	13.9	94	e.			2		5			0.07	1.8	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762.7	30.09	764.3	75.8	24.3	93	nw.			5		0					blue sky	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.64	752.8	29.84	757.9	53.6	12.0	71	ene.			4		10					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.56	750.8	29.73	755.1	55.3	12.9	97	nw.			1		10					raining	The Staff.
Guernsey	29.50	749.3	29.79	756.7	65.0	18.3	78	wsw.			1		4			blank	blank	d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.71	754.0	29.74	755.4	56.6	13.7	90	nw.	2	0.9			10					misty	The Staff.
Leicester, Museum	29.48	748.8	29.73	755.1	58.8	14.9	82	n.			1		9					overcast	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.96	761.0	76.4	24.7	77	ne.			2		2			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.80	756.9	29.84	757.9	80.8	27.1	91	s.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.23	742.4	29.74	755.4	56.7	13.7	87	ne.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.52	749.8	29.75	755.6	56.6	13.7	89	nnw.			1		10					overcast	The Staff.
Plymouth	29.07	753.6	29.74	755.4	62.2	16.8	91	ssw.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.82	757.4	29.92	760.0	51.3	10.7	79						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.86	758.4	29.92	760.0	81.0	27.6	53	wsw.			1		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.47	748.5	29.74	755.4	58.4	14.7	85	ne.			1		10			0.06	1.5	overcast	W. F. Cooper.
Silloth Rectory	29.74	755.4	29.77	756.1	54.6	12.6	87	ese.			[illegible]		10			0	0	overcas	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.76	755.9	56.1	13.4	81	ne.	5	2.2			10					overcast	W. C. Carlisle.
Strathfield Turgiss					59.4	15.2	89	w.			0.4		8					overcast	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.69	754.1	29.78	756.4	68	20.0	69	sw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.62	752.3	29.64	752.8	61.6	16.4	84	sse.	16	7.2			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.71	754.6	30.10	764.5	74.8	23.8	70	w.	5.0	2.2		2 c	1 n	w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.14	765.5	30.18	766.6	50	10.0	86	s.	2	0.9		0	3 s			0	0	blue sky	Hon. J. Ferguson
Charlottetown, P. E. Island	30.03	762.7	30.07	763.8	54	12.2	69	n.	15	6.7		0	4 s		ne.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.10	764.5	30.16	766.1	46	7.8	89	n.	7	3.1		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.78	756.4	29.97	761.2	53.3	11.8	97	e.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.15	765.8	30.20	767.1	46.5	8.1		w.			1					0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T	28.14	714.7			39	3.9	55	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.15	765.8	30.17	766.3	43	6.1	90	ne.	10	4.5		0	hz.			0	0	clear	J. McWilliams
Fort Garry, Manitoba*	29.47	748.5	30.31	769.9	48	8.9	83	w.	28	12.5			10 ks		n.	0.77	19.6	cloudy	James Stewart.
Fredericton, N. B	30.11	764.8	30.18	766.6	45.1	7.3	88	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.08	764.0	30.13	765.3	52	11.1	80	ne.	10	4.5		5 k	0	sw.		0	0	hazy	J. Chipman Seeley
Granton, Ontario	28.70	730.5	29.85	758.2	56.0	13.3	100	e.	5	2.2		9 cs	0	e.		0.11	2.8	raining	Jas. Grant.
Halifax, N. S*	29.95	760.7	30.08	764.0	50	10.0	86	nw.	6	2.7		7 k	0	ne.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.52	749.8	29.91	759.7	57.7	14.3	90	ne.			1	9 cs	0	nw.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.64	752.8	29.97	761.2	60	15.6	66	ne.	6	2.7		7 ck	0	s.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.96	761.0	30.00	762.0	54.5	12.5	77	n.			6	7 k	0	n.		0	0	d. clouds	C. H. Rigby.
London, Ontario	28.98	736.1	29.87	758.7	57.2	14.0	97	se.			2	0	8 s			0.24	6.1	d. clouds	F. B. Reed.
Medicine Hat	28.15	715.0	30.45	773.4	56?	10.0?	43	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.83	757.7	30.03	762.7	57	13.9	86	ne.	5	2.2		10 cs		sw.		0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.76	756.4	30.02	762.5	56.0	13.3	92	n.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.27	743.4	29.95	760.7	58	14.4	93	ne.	6	2.7		2 k	5 ks	sw.	sw.	0	0	fair	Rev. R. Mosley
Peterboro, Ontario	29.25	742.9	29.98	761.5	58.7	14.8	76	s.			1	2 c	0	s.		0	0	blue sky	Wm. O'Connor, M.A.
Port Dover, Ontario	29.22	742.2	29.90	759.4	60	15.6	94	calm	0	0		10 c	0	s.		0.15	3.8	fair	H. Morgan.
Port Stanley, Ontario	29.25	742.9	29.87	758.7	59	15.0	93	e.	12	5.4		5 k	2 k	sw.	sw.	0.80	20.8	cloudy	M. Payne.
Que Appelle, N. W. T	28.35	720.1	30.70	781.3	27	—2.8	100	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.74	755.4	30.10	764.5	55	12.8	90	n.	16	7.2			hz.			0	0	dense haze	Capt. Asne, R. N.
Rockliffe, Ontario*	29.56	750.8	30.01	762.2	54	12.2	93	calm	0	0			10 ks		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.07	763.8	30.12	765.0	50	10.0	74	n.	3	1.3		0	0			0	0	clear	
St. John, N. B	29.98	761.5	30.12	765.0	49.0	9.4	85	ne.	8	3.6		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.72?	754.9?	29.97?	761.2?	49	9.4	100	ne.					10 n			0.16	4.1	cloudy	The Commandant.
Saugeen, Ontario*	29.18	741.2	29.88	758.9	57	13.9	86	se.	10	4.5			10 ks			0.44	11.2	cloudy	
Stratford, Ontario	28.62	726.9	29.88	758.9	55.6	13.1	95	se.	7.0	3.1			10 s			0.181	2.6	raining	C. T. Macgregor, M. A
St. Pierre, N. F			29.80	756.9	50.0	10.0		ne.			4					0	0		The Commandant.
S. W. Point, Anticosti	30.08	764.0	30.12	765.0	46	7.8	93	ne.	2	0.9		0	7 k		n.	0	0	cloudy	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Sydney, C. B.	29.95	760.7	30.01	762.2	53	11.7	66	ne.	12	5.4		2 c	7 k		ne.	0.03	0.8	fair	T. C. Hill, C. E.
Toronto, Ontario*	29.57	751.1	29.95	760.7	59	15.0	87	ne.	5	2.2		2 ck	2 s	sw.		0.01	0.3	fair	Magnetic Observatory.
Woodstock, Ontario	28.87	733.3	29.91	759.7	57.3	14.1	96	e.	9.5	4.2		0	9 n			0.025	0.6	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.00	762.0	30.06	763.5	51	10.6	83	e.	4	1.8		5 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	65.5	18.6	89	calm	5.8	2.6			10			0.040	1.0	foggy	I. Garfelt.
Springbok Fontein	27.87	707.9			75	23.9	47									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.02	762.5	30.10	764.5	56.8	13.8	85	w.			2	10						cloudy	Samuel Redolez.
Iquique	29.97	761.3	30.00	762.0	62.4	16.9	71	sw.			3	5 k		ne.				fair	Rafael Moreno.
Niebla	29.56	750.7	29.66	753.4	46.4	8.0	86	e.			3	3 k		w.					Federico Köhling.
Punta Caldera	29.87	758.6	29.95	760.8	60.3	15.7	76	nw.			5		6 s		sw.			cloudy	Manuel Tobar.
Punta Corona	30.19	766.9	30.38	771.7				e.			2	10				0	0	cloudy	Ignacio Ayala.
Valparaiso																			Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.37	644.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.04	762.9	30.06	763.5	66.4	19.1	89	nw.	3.8	1.7			10			0.004	0.1	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.86	758.4	29.91	759.6	49.5	9.7	61	e.	9	4			3						Oversergent Fischer.
Fanoe	29.84	758.0	29.86	758.5	53.8	12.1	65	e.	9	4			5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.00	761.9	30.04	763.0	47.5	8.6	88	calm	0	0			10						A. O. Thorlacius.
Thorshavn	29.98	761.5	30.00	762.1	49.3	9.6	65	nw.	7	3			3						Overloerer Bergh.
Vestervig	29.84	757.9	29.93	760.2	49.6	9.8	70	ne.	13	6			1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.82	757.4			91.8	33.2		ne.	4.5	2.0			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.42	747.3	30.05	763.2	71.6	22	62	nw.			1	ck		nw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.45	747.9	29.90	760.9	65.1	18.4	75	s.			1		k		n.	0	0		M. Nicot, Director.
Avignon, Normal School	29.87	758.6	29.95	760.6	75.2	24	78	ssw.			1		10			0.059	1.5	covered	M. Giraud, Director.
Bar-sur-Seine	29.33	744.9	29.87	758.6	65.7	18.7	67	ssw.			2		8 kn		wnw.	0.091	2.3	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.54	750.2	29.79	756.7	65.8	18.8	70	w.			2		8		w.	0.063	1.6	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.97	735.9	29.86	758.4	65.8	18.8	70	ssw.			1					0.055	1.4		M. Gobin, Director.
Bordeaux, Observatory	29.72	754.9	29.98	761.4	68.4	20.2	67	sw.			1		10		wsw.	0.055	1.4	covered	M. Rayet, Director.
Bourges, Normal School	29.37	745.9	29.90	759.5	68.0	20	74	w.			1		k		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.61	752.0	29.85	758.2	69.1	20.6	81	sw.			4		5		sw.	0.047	1.2		M. de Kermarée, Dir.
Caen, Normal School	29.71	754.5	29.79	756.6	68.4	20.2	62	sw.			1		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.52	749.9	29.84	757.8	66.4	19.1	66	s.			6		8	ssw.	sw.	0.008	0.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.28	743.8	29.79	756.6	57.2	14	85	wnw.			1		10		e.	0.20	5.	raining	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.60	726.3	29.90	759.5	69.8	21.0	59	w.			1	ck	8 k		sw.	0.122	3.1		M. Alluard, Director.
Cluny, Normal School	29.10	739.1	29.93	760.3	63.3	17.4	73	sw.			1				w.	0.484	12.3		M. de Villemontée, Dir.
Commercy, Normal School	29.02	737.0	29.85	758.3	61.9	16.6	75	w.			6		10 kn	w.	w.	0.055	1.4	covered	Dr. Coulet, Director.
Gap, Normal School	27.47	697.8	29.94	760.4	66.2	19	66	s.			1		8 n			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.84	732.5	29.93	760.1	70.9	21.6	74	ssw.			1		7		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.9	29.97	761.1	60.1	15.6	93	sse.			1		10 kn		w.	0.20	5.	heavy rain	M. Ablard, Director
Guéret, Normal School	28.36	720.4	29.89	759.3	65.3	18.5	57	sw.			6		5 kn		sw.	0.39	10.	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.51	749.6	29.79	756.6	69.8	21	57	sw.			2		5		sw.	0.51	13.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.6	30.00	763.5	72.9	22.7	44	w.			3		5 k			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.75	755.7	29.85	758.3	66.2	19.0	72	sw.			2		8	w.	sw.	0.969	24.6	¾ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.90	734.1	29.94	760.4	66.2	19.0	72	e.			1	ck	10 n			0.244	6.2	covered	M. André, Director
Mans, Normal School	29.58	751.2	29.87	758.8	65.8	18.8		w.			4		5 kn		w.	0.04	1.	cloudy	M. Richard, Director
Marseille, Observatory	29.67	753.7	29.94	760.4	71.2	21.8	84	wsw.			1		8		var.	0.024	0.6		M. Stephan, Director.
Montlouis	24.86	631.4	29.70	754.4	61.7	16.5	36	e.	7.4	3.3			3	se.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.76	756.0	29.87	758.7	82.4	28	52	w.			4		5	e.		0	0	cloudy	M. Galzin, Director.
Nantes, Observatory	29.73	755.2	29.89	759.3	69.1	20.6	64	wsw.			2–4	c	9 kn		sw.	0.315	8.0		M. Larocque, Director.
Perpignan, Observatory	29.84	758.0	29.95	760.8	79.1	26.1	35	nw.	11.2	5.0			4	w.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	540.9			39.9	4.4		sw.			1		5		w.	0	0	fair	M. Vaussenat, Director.
Privas, Normal School	28.89	733.8	29.91	759.8	69.1	20.6	76	sse.			3		10 kn	nne.	s.	0.724	18.4	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.13	638.4			48.4	9.1	88	wsw.			3		5		wsw.	0.268	6.8		M. Alluard.
Rochefort, Naval Obs'y	29.88	759.0	29.91	759.8	67.3	19.6	76	sw.			2		5		wsw.	0.315	8.0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.69	754.2	29.90	759.5	66.9	19.4	100	sw.			2		8	sw.	sw.	0.795	20.2	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.87	707.9	30.00	762.1	55.8	13.2	85	nw.			1		5			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.76	756.0	29.81	757.2	62.6	17	80	sw.			1		10	sw.		0.248	6.3	raining	M. Moullot, Dir.
Saint Maur, Observatory	29.67	753.6	29.84	757.8	64.8	18.2	60	sw.			1		8		wsw.	0.028	0.7	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.32	744.7	30.04	763.1	74.5	23.6	45	wnw.			2		1	nw.		0	0	clear	M. Bailland, Director.
Tours	29.69	754.2	29.87	758.7	69.4	20.8	63	sw.			1		5	sw.	wsw.	0.264	6.7	cloudy	M. de Tastes.
Versailles, Observatory	29.35	745.4	29.84	757.8	64.4	18.0	60	nw.			2		8			0	0	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.87	758.7	30.02	762.5	73.6	23.1	60	nw.	5.8	2.6			7 k		w.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.39	721.1	29.80	757.0	62.2	16.8	78	w.			4		7	w.		0.126	3.2		Prof. Jnedt.
Bamberg	28.95	735.2	29.78	756.4	65.7	18.7	73	w			1		6 k		w.	0.587	14.9	raining	Prof. Dr. Hoh.
Berlin	29.56	753.3	29.80	756.9	56.5	13.6	60	calm			0		10			0.008	0.2		Dr. Lensch.
Breslau	29.26	743.2	29.79	756.6	62.4	16.9	62	n.			2		10			0	0	hazy	Royal University Obs'y.
Carlsruhe	29.38	746.2	29.82	757.5	66.0	18.9	73	sw.			2		10	sw.		0.161	4.1	raining	Albert Senz.
Cassel	29.03	737.4	29.74	755.5	62.6	17.0	86	n.			1		10	s.		0.161	4.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.39	746.6	29.75	755.6	66.7	19.3	74	w.			1		10			0.146	3.7		Physical Society.
Friedrichshafen	28.48	723.5	29.87	758.8	61.5	16.4	87	w.			3		10	w.		0.193	4.9	raining	Wilhelm, Chief Tel.
Hamburg	29.73	755.1	29.82	757.4	55.9	13.3	68	e.			3		8					sprinkling	E. Preller.
Kiel	29.83	757.6	29.84	758.0	54.9	12.7	66	e.			1		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.34	745.1	29.75	755.7	55.0	12.8	100	ne.			3		10			0.051	1.3	raining	H. Leppig, Asst.
Magdeburg	29.59	751.6	29.78	756.3	54.7	12.6	87	ene.			2		10	e.		0.067	1.7		Weather Observatory.
Memel	29.70	755.8	29.80	757.0	48.2	9.0	46	nnw.			5		10 k					squally	Issermann.
Munich	28.05	712.4	29.90	759.5	58.5	14.7	94	sw.			1		10	sw.		0.150	3.8	raining	Central Station.
Neufahrwasser	29.82	757.5	29.84	757.9	52.7	11.5	58	n.			2		7	w.		0.083	2.1		A. Lothes.
Neustadt, Palatinate	29.26	743.3	29.79	756.6	64.8	18.2	71	w.			2		10			0.850	21.6	raining	Dicknether.
Stuttgart	28.89	733.7	29.75	755.7	66.6	19.2	61	w.			1		8	w.		0.067	1.7		Prof. Dr. Schoder.
Wustrow	29.82	757.3	29.84	757.9	54.3	12.4	78	e.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.62	752.4	29.99	761.8	79.7	26.5		w.			1.5		2 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.73	755.2	29.78	756.4	84.0	28.9	69	sw.	18.0	8.0			0			0	0	blue sky	
Deesa	29.27	743.5	29.74	755.4	86.2	30.1	59	wnw.	7.0	3.4			8	w.		0	0	d. clouds	
Bombay	29.78	750.4	29.82	757.4	81.7	27.6	74	w.	7.0	3.4			5	w.		0	0	d. clouds	
Poona, Yarrowda	27.95	710.0	29.81	757.2	76.3	24.6	68	w.	23.0	10.3			5			0	0	d. clouds	
Trichinopoly	29.52	749.9	29.80	756.9	90.8	32.7	42	w.	0.2	0.1			6			0	0	d. clouds	
Bellary	28.28	718.2	29.72	754.8	89.0	31.7	35	sw.	10.0	4.5			10	se.		0	0	gloomy	
Belgaum	27.30	693.5	29.87	758.7	70.0	21.1	81	wsw.	7.0	3.4			10	e.	w.	0	0	d. clouds	
Lahore	28.97	735.7	29.69	754.2	90.1	32.3	49	calm	0	0			0			0	0	blue sky	
Roorkee	28.78	731.0	29.66	753.3	88.2	31.2	62	calm	0	0			0			0	0		
Agra	29.15	740.3	29.68	753.9	95.6	35.3	31	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.66	728.0	29.71	754.0	70.9	24.9	89	calm	0	0			9		e.	0.53	13.5	gloomy	
Jubbulpore	28.39	721.0	29.74	755.4	78.8	26.0	82	ne.	12.0	5.4			10		ne.	0.16	4.1	gloomy	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.32	744.7	29.69	754.1	90.6	32.6	57	calm	0	0			2	ne.		0	0		
Allahabad	29.38	746.3	29.69	754.2	82.7	28.2	89	calm	0	0			3			0.10	2.5	d. clouds	
Patna	29.52	749.7	29.70	754.3	86.8	30.6	74	ene.	2.5	1.1			0	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.71	703.8	29.70	754.4	80.5	26.9	76	sse.	4.8	2.2			4			0	0	d. clouds	
Cuttack	29.62	752.2	29.70	754.3	85.5	29.7	83	calm	0	0			9			0.08	2.0	d. clouds	
Calcutta, Alipore	29.70	754.2	29.72	754.8	84.4	29.1	83	ssw.	2.5	1.1			6		se.	0.35	8.9	d. clouds	
Dhubri	29.61	752.1	29.73	755.0	78.5	25.8	95	calm	0	0			4			1.85	47.0	d. clouds	
Chittagong	29.69	754.1	29.78	756.4	82.3	27.9	86	s.	3.8	1.7			6			0	0	d. clouds	
Sibsagar	29.39	746.4	29.72	754.9	83.2	28.4	92	nw.	2.0	0.9			10	sw.	sw.	2.3	58.4	overcast	
Jeypore	28.30	718.8	29.71	754.6	91.2	32.9	42	nw.	4.8	2.3			6		wnw.	0	0	d. clouds	
Zanzibar	30.04	763.0			84.7	29.3	51	sse.	4.2	1.9			1	ese.		0	0	d. clouds	
ITALIAN.																			
Udine	29.49	749.1	29.89	759.2	66.6	19.2	84	calm	0	0			10			0.138	3.5		Prof. Giovanni Clodig.
Milan	29.38	746.2	29.88	759.0	68.4	20.2	73	e.	4.3	1.9			10	sw.		0.004	0.1		Prof. G.V.Schiapparelli
Padua	29.76	755.9	29.87	758.6	72.5	22.5	67	sse.	2.5	1.1			10	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.1	29.87	758.6	67.5	19.7	73	nnw.	1.8	0.8			10	n.		0	0		Prof. F. F. Denza.
Genoa	29.71	754.7	29.96	759.4	69.6	20.9	88	s.	11.9	5.3			10	s.		0.622	15.8		Prof. G. M. Garibaldi
Mondovi	27.97	710.4	29.84	757.9	69.1	20.6	70	n.			2		6			0	0		Prof. D. C. Bruno.
Pesaro	29.86	758.5	29.91	759.7	76.5	24.7	51	sw.	8.1	3.6			8	w.		0	0		Prof. Luigi Guidi.
Florence	29.69	754.2	29.94	760.5	77.9	25.5	61	sw.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.85	758.2	29.93	760.3	73.4	23.0	73	s.	3.1	1.4			10	w.		0	0		Prof. P. Monte.
Rome	29.84	758.0	30.01	762.3	76.3	24.6	48	ssw.	8.1	3.6			6			0	0		Prof. P. Tacchini.
Lecce	29.70	755.8	30.00	762.0	78.8	26.0	48	w.	4.9	2.2			4	w.		0	0		Prof. C. de Giorgi.
Cosenza	29.16	740.7	30.03	762.7	72.7	22.6	65	ese.	1.8	0.8			2	se.		0	0		Prof. D. Conti.*
Cagliari	29.84	757.8	30.02	762.6	77.0	25.0	64	ese.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.84	758.0	30.08	764.1	75.6	24.2	58	ne.	3.1	1.4			1			0	0		Prof. G. Caccciatore.
Syracuse	29.99	761.8	30.04	762.9	77.0	25.0	72	sw.	3.1	1.4			4	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.53	750.1	30.04	763.1	72.5	22.5	72	sw.	1.3	0.6			3	wnw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.90	759.5	29.94	760.5	55.9	13.3	99	calm			0	9ck;cs	0	w.		0	0	cloudy	H. Hattori.
Awomori	29.90	759.4	29.93	760.2	59.7	15.4	80	sse.	1.5	0.7		0	1 ck		s.	0	0	clear	K. Ogawa
Hamamatsu	29.84	757.9	29.94	760.4	67.8	19.9	91	ene.			2	3 ck	5 s			0	0	cloudy	Sekigawa & Yamazaki.
Kagoshima	29.91	759.7	29.92	760.0	72.8	22.5	69	nw.			2	0	5 s			0	0	fair	G. Miyanonaza.
Kanazawa	29.80	756.9	29.90	759.5	63.2	17.3	87	calm	0	0		0	1 ck			0.010	0.2	fair	S. Endo.
Kioto	29.73	755.2	29.91	759.6	67.1	19.5	83	n.	1.5	0.6		0	6s;ck			0	0	fair	M. Tojima.
Kochi	29.90	759.3	29.92	759.8	71.9	22.2	75	wnw.	3.5	1.5			10 s		sw.	0	0	overcast	K. Kusunose.
Miasaka	29.92	760.0	29.95	760.7	68.1	20.1	87	ese.			1		9 s		w.	0	0	cloudy	K. Masasaki
Miyako	29.90	759.3	30.00	762.1	61.1	16.2	92	calm	0	0			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.75	755.6	29.95	760.7	66.3	19.1	82	calm	0	0		0	1 s			0	0	clear	S. Takehayasu
Niigata	29.87	758.7	29.90	759.4	64.3	17.9	86	ne.	5.6	2.5		0	3ks;s			0	0	fair	Satoo & Tomikawa.
Nobiru	29.96	761.0	29.98	761.4	59.1	15.1	95	e.	4.2	1.9		1 ck	3 s			0.010	0.3	fair	Yoshino & Midzushina.
Numazu	29.92	759.9	29.95	760.8	68.1	20.1	69	ese.			2	2 ck	8 s			0	0	cloudy	R. Kaneda.
Osaka	29.89	759.1	29.90	759.5	70.1	21.2	86	ne.	1.4	0.6			10 s			0	0	cloudy	H. Omura.
Sakai	29.91	759.6	29.92	759.8	63.4	17.4	88	nw.			2	0	0			0.110	2.8	clear	Yamawchi&Sakamoto.
Shimonoseki	29.80	757.0	29.95	760.7	66.9	19.4	81	calm			0	0	0			0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	29.91	759.6	29.98	761.5	64.2	17.9	88	e.	3.3	1.4		0	5 s			0	0	fair	The Staff.
Wakayama	29.85	758.1	29.90	759.4	71.0	21.7	79	calm	0	0		3 ck	6 ck			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.02	762.5	30.21	767.3	71.8	22.1	66	ese.	22.5	10.1		0	8 ks;kn		ese.	0.05	1.3	cloudy	The Staff.
MEXICAN.																			
Leon	24.30	617.2	29.93	760.2	60.8	16.0	84	wsw.	0.9	0.4		5 c	5cn;s	e.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.60	751.9	29.86	758.4	79.0	26.1	91	ne.	1.6	0.8		8 cs	0	n.		0.630	16.0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata					80	26.7	94	calm			0	0	3 k			0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.74	755.3	29.74	755.3	60.4	15.8		w			3					0.016	0.4		
Groningen	29.70	754.4	29.70	755.9	52.9	11.6		ese.			1					0.154	3.9		
Helder	29.70	754.4	29.70	754.4	58.5	14.7		ese.			4					0.031	0.8		
Hellevoetsluis	29.73	755.1	29.73	755.1	63.1	17.3	82	sw.			2					0.071	1.8		
Utrecht	29.68	753.8	29.72	755.0	65.8	18.8	74	ssw.			2		8			0.272	6.9	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	759.9			80.6	27.0	70	nne.	0	0			4			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.86	758.5	29.93	760.1	48.6	9.2	84	ssw.	18.6	8.3			10					raining	
Brono	29.78	756.3	29.82	757.3	44.2	6.8	74	calm			0		9			0	0		
Christiania	29.78	756.5	29.93	760.2	49.3	9.6	43	sw.	4	2			7			0	0		
Gjesvær	29.74	755.5	29.77	756.1	38.5	3.6		sw.			4		10						
Lodingen	29.72	754.9	29.77	756.1	43.0	6.1	60	s.			5		10			0	0		
PORTUGUESE.																			
Angra, Azores					71.8	22.1	86	w.	4.9	2.2			4			1.378	35.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.15	765.7	30.23	767.9	74.1	23.4	56	sw.	2.5	1.1			5			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.83	757.7	30.17	766.2	67.8	19.9	74	sw.	14.3	6.4			4	n.		0	0		The Staff.
Ponta Delgada, Azores	29.92	759.9	29.99	761.7	74.1	23.4	90	w.	8.7	3.9			10			0.189	4.8		
Saint Paul de Loando	29.79	756.6	29.99	761.8	75.9	24.4	80	sw.			2		10			0	0		
San Salvador, Congo	28.16	715.3	30.01	762.3	73.9	23.3	73	s.			1		8						
Serra da Estrella	25.41	645.3	30.12	765.1	52.0	11.1	83	w.	15.0	6.7			10			0.004	0.1		
RUSSIAN.																			
Akmolinski	28.92	734.5	29.97	761.1	64.6	18.1	32	calm	0	0		0	0			0	0		Major K. Lasarew.
Archangel	29.87	758.8	29.89	759.3	40.3	4.6	71	w.	2	1		0	8 ks			0	0		Capt. Sselliwerstow
Ashurada	29.97	761.1	29.87	758.7	79.8	26.4	69	w.	9	4		0	1 k			0	0		
Astrakhan	30.01	762.3	29.94	760.5	70.0	21.1	53	s.	7	3			10 s;n			blank	blank		Capt. Wisganow.
Baku	30.00	762.1	29.96	760.9	74.5	23.6	77	s.	22	10		0	0			0	0		
Barnaul	29.64	752.9	30.14	765.5	58.8	14.9	36	sw.	2	1			0			0	0		Meteorological Obs'y
Bielosersk	29.08	738.5	29.54	750.4	43.9	6.6	85	ene.	7	3			10 s			0.260	6.6		
Dorpat	28.89	733.8	29.13	740.0	36.3	2.4	96	wnw.	18	8			10 n			0.213	5.4	rain & snow	Observatory.
Ekaterinburg	28.90	735.5	29.90	759.5	58.1	14.5	61	w.	9	4			10 n			0.020	0.5		Meteorological Obs'y.
Elissawetgrad	29.35	745.5	29.79	756.6	68.0	20.0	38	w.	10	7		0	5 ks			0	0		
Irkutsk	28.61	726.7	30.32	770.1	34.0	1.1	66	nw.			2		3			0.012	0.3		
Kasalinsk					75.2	24.0	25	ne.	4	2		0	0						
Kasan	29.52	749.8	29.78	756.4	66.6	19.2	50	se.	13	6			10			0	0		Observatory.
Kem	29.82	757.4	29.87	758.7	39.0	3.9	62	nne.	13	6		0	5 k			blank	blank		
Kertch	29.82	757.3	29.84	757.9	74.8	23.8	35	wnw.	7	3		0	4 ks			0	0		Lagorio & Sastyrea.
Kieff	29.07	738.3	29.68	753.9	63.7	17.6	52	sw.	13	6		0	5 ks;n			0	0		Observatory.
Koslov	29.11	739.3	29.59	751.6	66.7	19.3	60	s.	9	4		0	7 ks			0	0		
Libau	29.71	754.6	29.73	755.2	47.5	8.6	52	nnw.			9		10			0.862	21.9		E. Quaas.
Lugan	29.44	747.8	29.64	752.8	70.7	21.5	40	sw.	22	10			8			0.004	0.1		Meteorological Obs'y
Moscow	29.03	737.2	29.48	748.8	60.4	15.8	75	sw.	2	1			10 ks			0.098	2.5		Meteorological Obs'y
Nikolaiev	29.86	750.9	29.87	758.7	77.5	22.5	50	nne.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					41.0	5.0	86	calm	0	0		0	0						Iwanow.
Pekin, China	29.86	758.5	30.00	762.1	59.5	15.3	60	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.07	753.7	30.01	762.2	80.1	26.7	20	calm	0	0		0	1 k			0	0		
Petrozavodsk	29.37	746.0	29.57	751.1	37.9	3.3	93	ene.	45	20			10			1.378	35.0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.20	741.7	29.69	754.2	52.3	11.3	84	nw.	13	6			10 n			0.012	0.3		
Poti	29.89	759.3	29.93	760.1	76.5	24.7	88	w.	4	2		0	6 n			0	0		
St. Petersburg	29.10	739.2	29.13	739.8	48.9	9.4	86	e.	9	4			10 n			1.886	47.9		Central Physical Obs'y.
Samarkand	27.63	701.9	30.05	763.3	66.4	19.1	62	calm	0	0		0	0			c	0		
Semipalatinsk	29.50	749.3	30.15	765.7	63.1	17.3	30	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.71	754.5	29.91	759.7	76.2	21.2	66	wnw.	20	9		0	3 ks			0	0		
Staroi Bykhov	28.99	736.3	29.54	750.2	51.8	11.0	90	w.	16	7			9 ks;n			0.201	5.1		
Tashkend Laboratory	28.37	720.6	29.97	761.3	76.1	24.5	33	calm	0	0		0	1 k			0	0	light clouds	Terch, A. M
Tiflis	28.45	722.7	29.80	757.0	77.4	25.2	47	nw.	9	4		0	4 ks			0	0		Physical Observatory.
Vernoe	27.48	698.0	29.92	759.9	64.4	18.0	54	calm	0	0		4 c	0			0	0		
Viatka	29.23	742.5	29.86	758.4	51.4	10.8	63	ese.	7	3			9			0.126	3.2		
Warsaw	29.35	745.4	29.76	756.0	56.1	13.4	73	w.	7	3		0	8 k			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.80	756.8	30.09	764.3	34.5	1.4	93	ese.	4	2			10			0.106	2.7	rain & snow	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.2	77.0	25.0	78	ssw.	7.6	3.4		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.95	760.8	30.01	762.3	80.6	27.0	47	se.	2.5	1.1		2	3	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.3	30.08	764.0	59.7	15.4	75	sw.	8.1	3.6			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.02	762.5	74.8	23.8	41	sw.	10.5	4.7		4	0	w.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.85	758.3	30.00	762.0	87.8	31.0	46	s.	2.5	1.1		2	1	e		0	0	light clouds	Olayo Diaz, Director.
Oviedo	29.21	742.0	29.97	761.3	61.7	16.5	87	s.	7.8	3.5		8 k	6 k	w.	w.	0.055	1.4	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.06	738.2	29.95	760.6	62.6	17.0	90	ssw.	22.4	10.0			10			0.909	23.1	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.81	757.2	29.88	758.0	74.8	23.8	88	s.	2.2	1.0		cs	2 k;sk	wnw.	nnw.	0.44	11.2	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	80.0	26.7	89	nw.	2.2	1.0			10 n			1.370	34.8	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.8	75.3	23.9	67	nw.	11.9	5.3		1	1	ne.	sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I.	29.89	759.2	29.98	761.5	80.6	27.0	86	se.	3.4	1.5		5 cs	3 k	se.	se.	0	0	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.88	758.9	29.92	759.9	38.8	3.8	51	n.			4		0			0	0		
Umea	29.84	757.9	29.89	759.2	43.9	6.6	40	nnw.			4		6			0	0		
Hernosand	29.83	757.6	29.88	758.9	49.6	9.8	42	ne.			4		1			0.150	3.8		
Stockholm	29.66	753.4	29.84	757.9	43.9	6.6	49	n.			6		2			0.657	16.7		
Wisby	29.77	756.1	29.83	757.6	45.0	7.2	61	n.			6		7			0.417	10.6		
Sub-series.																			
Upsala	29.78	756.5	29.87	758.7	37.6	3.1	93	nnw.	9.8	4.4			8	n.	n.	0.031	0.8		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.54	725.0	29.95	760.6	62.6	17.0	86	e.			1		10			0.374	9.5	covered	The Observatory.
Turkish.																			
Constantinople			29.97	761.3	76.5	24.7	46	sw.	4	2.0			3		sw.	0	0		The Observatory.
Valona			30.15?	765.9?	72.5	22.5		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.6	84.6	29.2	43	w.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	29.94	760.5	30.02	762.5	58	14.4	83	n.	1	0.4		9 c	0	w.		0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.87	758.7	58	14.4	87	e.	15	6.7			10 s			0.29	7.4	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	29.95	760.7	53	11.7	69	ne.	3	1.3		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.71	703.8	30.56	776.2	35	1.7	66	e.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.78	731.0	29.95	760.7	67.0	19.4	92	calm	0	0			10 s		ne.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.92	760.0	29.93	760.2	60	15.6	87	calm	0	0		8cs;ck	0			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	66.5	19.2	90	ne.	1	0.4		7 cs	0			0	0	fair	D. J. Young.
Baltimore, Maryland	29.92	760.0	29.97	761.2	61	16.1	78	ne.	3	1.3		8 ck	fg.	w.		0	0	cloudy	Geo. W. Prager.
Barnegat City, New Jersey	29.93	760.2	29.95	760.7	62.0	16.7	90	ne.	4	1.8		8 c	fg.			0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.61	752.1	29.63	752.6	47.0	8.3	91	s.	10	4.5		0	2 k			1.10?	27.9?	clear	Geo. Chernick.
Bennett, Fort, Dakota	28.72	729.5	30.31	769.9	45.0	7.2	86	nw.	24	10.7			10 n		nw.	inap.	inap.	light rain	A. Pritchard.
Benton, Fort, Montana	27.76	705.1	30.60	777.2	43	6.1	26	calm	0	0		1 cs	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.55	725.2	30.35	770.9	49	9.4	58	n.	22	9.8			10 s		n.	0	0	cloudy	Cyrus Crane.
Block Island, Rhode Island	29.94	760.5	29.97	761.0	61.5	16.4	86	n.	13	5.8		1 c	0	nw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.52	699.0	30.29	769.4	47	8.3		w.	4	1.8		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.86	758.4	30.01	762.2	59.0	15.0	84	n.	7	3.1		7 cs	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.97	761.2	69.0	20.6	93	n.	11	4.9			10 n		n.	0.30	7.6	light rain	E. C. Imlay.
Buffalo, New York	29.19	741.4	29.92	760.0	56.5	13.6	77	ne.	8	3.6		2 ck	4 ks	sw.	sw.	inap.	inap.	fair	Wm. Finn.
Buford, Fort, Dakota	28.64	727.4	30.62	777.7	36	2.2	72	w.	5	2.2		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.65	753.1	30.05	763.3	57.1	13.9	69	n.	6	2.7		0	2 s		n.	0.12	3.0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.92	760.0	30.12	765.0	66.4	19.1	57	nw.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	29.90	759.4	29.92	760.0	67.0	19.4	90	ne.	10	4.5		4 cs	4 ks	sw.	ne.	0	0	cloudy	A. K. Anderson.
Cape May, New Jersey	29.91	759.7	29.94	760.5	58.0	14.4	80	ne.	7	3.1		5ck;cs	0			0	0	fair	W. E. Smith.
Cape Mendocino, California	29.27	743.4	29.95	760.7	75	23.9	48	calm			0	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.88	758.9	29.90	759.4	71.0	21.7	90	n.	9	4.0		1 c	0	sw.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.84	757.9	29.90	759.4	67.5	19.7	60	n.	10	4.5		4 c	3 s	se.	n.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.10	739.1	29.94	760.5	64.0	17.8	90	ne.	1	0.4		10 cs	fg.	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.10	739.1	29.91	759.7	67.0	19.4	93	w.	2	0.9		7 k	2 ks	sw.	sw.	inap.	inap.	cloudy	B. L. Gouiding.
Cheyenne, Wyoming	24.46	621.3	30.32	770.1	30.2	— 1.0	45	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.15	740.4	29.84	757.9	53.0	11.7	83	sw.	6	2.7		0	4 ks		sw.	0.22	5.6	fair	Wm. Norrington.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	62	16.7	93	ne.	8	3.6		0	6 ks		w.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.21	741.9	29.86	758.4	65.0	18.3	90	n.	4	1.8			10 s			0.54	13.7	cloudy	L. Dunne.
Cleveland, Ohio	29.13	739.9	29.85	758.2	60.5	15.8	83	se.	7	3.1			10 k		sw.	0.74	18.8	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.00	736.6	29.84	757.9	61	16.1	87	s.	1	0.4		0	fg.			0.03	0.8	clear	D. Cuthbertson.
Concho, Fort, Texas	28.35	720.1	30.25	768.3	54.4	12.4	69	n.	5	2.2		0	0			0.80	20.3	clear	J. McGlone.
Custer, Fort, M. T.	27.47	697.7	30.59	777.0	31	— 0.6	71	ne.	4	1.8		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.20	741.7	29.85	758.2	49	9.4	77	w.	8	3.6		0	4 ks		nw.	0.03	0.8	fair	R. R. Martin.
Davis, Fort, Texas	25.48	647.2	30.18	766.6	51	10.6	64	n.	8	3.6		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.63	727.2	30.38	771.6	42.5	5.8	57	e.	2	0.9		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.84	656.3	30.40	772.1	37	2.8	75	ne.	6	2.7		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	65	18.3	90	ne.	8	3.6		4ck;cs	0	ne.		0	0	fair	T. S. Townsend.
Denver, Colorado	25.20	640.1	30.31	769.9	41.0	5.0	54	n.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.98	736.1	29.87	758.7	47	8.3	68	w.	8	3.6			10 s		w.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.15	740.4	29.84	757.9	64.0	17.8	90	e.	8	3.6		0	8 s		e.	0.10	4.1	cloudy	E. R. Brace.
Dodge City, Kansas	27.75	704.8	30.30	769.6	42	5.6	60	nw.	12	5.4		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.10	739.1	29.80	756.9	50.2	10.1	77	sw.	5	2.2			10 s		sw.	0.29	7.4	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.08	738.6	29.82	757.4	56	13.3	86	ne.	36	16.1			10 s		ne.	1.15	29.2	cloudy	N. B. Conger.
Eastport, Maine	30.04	763.0	30.11	764.8	52.0	11.1	69	ne.	6	2.7		0	sk		ne.	0	0	clear	D. C. Murray.
Elliott, Fort, Texas	27.57	700.3	30.26	768.6	44	6.7	68	nw.	6	2.7		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.60	675.6	30.25	768.3	54.0	12.2	74	se.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.19	741.4	29.90	759.4	62	16.7	60	se	4	1.8		8 cs	0	sw.		0.26	6.6	cloudy	C. A. Shaw.
Escanaba, Michigan	29.13	739.9	29.79	756.7	59.0	15.0	94	e.	17	7.6			10 s		ne.	0.39	9.9	cloudy	George Heathcote.
Galveston, Texas	29.96	761.0	30.00	762.0	70	21.1	76	ne.	16	7.2			10 n		n.	1.79	45.5	light rain	E. O'C. Macinerney.
Grand Haven, Michigan	29.14	740.1	29.80	756.9	57.0	13.9	93	w.	13	5.8			10 n		w.	0.92	23.4	light rain	Wm. H. Fallon.
Grant, Fort, Arizona	25.40	645.1	30.00	762.0	60.2	15.7	56	se.	28	12.5		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.87	758.7	29.89	759.2	70.0	21.1	90	ne.	16	7.2			10 s		e.	0	0	cloudy	R. A. Crawford.
Helena, Montana	26.32	668.5	30.49	774.4	48	8.9	38	ne.	4	1.8		0	0			0	0	clear	J. H. Jones.

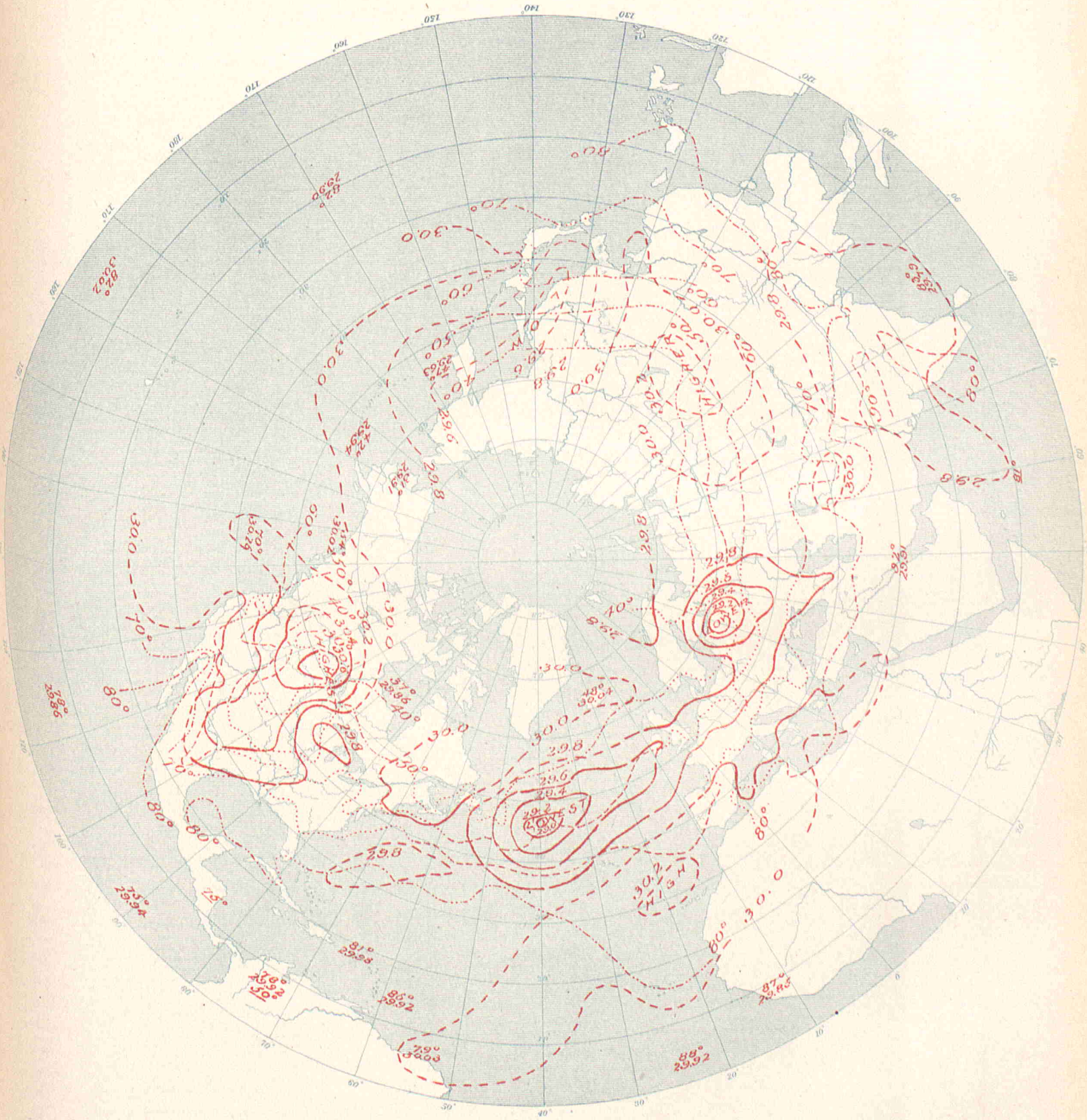
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.61	726.7	29.99	761.7	44.2	6.8	95	nw.	31	13.9			10 n			0.08	2.0	light rain	S. W. Glenn.
Indianapolis, Indiana	29.10	739.1	29.88	758.9	55.4	13.0	80	nw.	4	1.8			10 s		nw.	0.20	5.1	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.98	761.5	30.01	762.2	68.1	20.1	85	n.	26	11.6			10 s		n.	1.38	35.1	cloudy	I. A. Reed.
Jacksonville Florida	29.85	758.2	29.89	759.2	70.0	21.1	90	nw.	6	2.7			10 s			0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.26	743.2	29.91	759.7	47.0	8.3	77	w.	6	2.7		0	0			0.01	0.3	clear	F. Z. Gosewisch.
Key West, Florida	29.82	757.4	29.84	757.9	81	27.2	79	ne.	4	1.8		2 k	0	ne.		0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.91	759.7	29.93	760.2	70.0	21.1	78	ne.	18	8.0		0	8 ks;hz			0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.90	734.0	29.92	760.0	65.3	18.5	98	sw.	5	2.2			10 s		sw.	0.73	18.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.97	735.8	29.74	755.4	53	11.7	80	s.	6	2.7			10 s		s.	0.56	14.2	cloudy	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.07	763.8	45.5	7.5	65	nw.	3	1.3		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.56	750.8	30.38	771.6	43.0	6.1	68	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.07	763.8	63	17.2	68	nw.	4	1.8		4 ck	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	64	17.8	78	calm	0	0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.34	745.2	29.88	758.9	59	15.0	78	w	13	5.8		3 k	7 s	sw.	nw.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.28	743.7	29.96	761.0	59.8	15.4	82	calm	0	0		5 cs	3 s	sw.		0	0	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.22	742.2	29.87	758.7	57.0	13.9	93	e.	14	6.3			10 s		e.	0.03	0.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.91	759.7	29.92	760.0	67.0	19.4	93	ne.	9	4.0			10 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	26.09	662.7	30.49	774.4	33	0.6	62	ne.	4	1.8		2 c	0			0	0	clear	F. Burke.
Marquette, Michigan	29.11	739.4	29.83	757.7	54.5	12.5	96	e.	6	2.7			fg.			0.12	3.0	dense fog	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.04	763.0	60	15.6	60	nw	18	8.0			10 s		nw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.06	738.1	29.80	756.9	53	11.7	86	w.	9	4.0		0	9 ks		sw.	0.92	23.4	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.88	758.9	29.92	760.0	72	22.2	83	n.	5	2.2			10 s		sw.	0.07	1.8	cloudy	H. U. Jones.
Montgomery, Alabama	29.69	754.1	29.92	760.0	71	21.7	94	s.	2	0.9			10 s		s.	0.01	0.3	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.00	736.6	29.99	761.7	40	4.4	100	n.			6		10 n		n.	1.94	49.3	light rain	H. Bessant.
Mt. Washington, N. H.	23.94	608.1	30.10	764.5	44.0	6.7	80	e.	14	6.3		5 c	0			0	0	fair	S. W. Beall.
Nashville, Tennessee	29.38	746.2	29.95	760.7	63.0	17.2	68	nw.	12	5.4			10 ks		nw.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.86	758.4	29.97	761.2	59	15.0	75	n.	11	4.9		4 c	0	s.		0	0	fair	J. H. Sherman.
New London, Connecticut	29.95	760.7	30.00	762.0	60	15.6	75	n.	4	1.8		2 c	hz.	ne.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.87	758.7	29.92	760.0	75.0	23.9	71	n.	7	3.1			10 n		n.	inap.	inap.	light rain	M. Herman.
New York, New York	29.80	756.9	29.97	761.2	65	18.3	73	n.	3	1.3		7 cs	fg.			0	0	fair	H. J. Peurod.
Norfolk, Virginia	29.91	759.7	29.94	760.5	65.9	18.8	90	calm	0	0		0	7s;fg		n	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.42	696.5	30.30	769.6	38.6	3.7	70	w.	12	5.4		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.20	767.1	30.24	768.1	44.0	6.7	93	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.83	732.3	30.00	762.0	49.2	9.6	59	nw.	8	3.6			10 s		nw.	0	0	cloudy	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.65	753.1	29.97	761.2	57.5	14.2	96	calm	0	0			fg.			0	0	dense fog	J. G. Linsley.
Palestine, Texas	29.57	751.1	30.12	765.0	61.0	16.1	53	nw.	14	6.3		2 ck	0			0.62	15.7	clear	L. M. Pindell.
Pensacola, Florida	29.88	758.9	29.91	759.7	72.4	22.4	83	nw.	4	1.8			10 s		nw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.87	758.7	29.97	761.2	62	16.7	81	n.	5	2.2		6cs;ck	0	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.10	459.7	30.08	764.0	24	−4.4	80	ne.	28	12.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.10	739.1	29.90	759.4	62.6	17.0	73	calm	0	0		5 cs	0	w.		0	0	fair	G. O. Schaeffer.
Poplar River, Montana					34	1.1	53	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.16	740.7	29.82	757.4	60.0	15.6	93	se.	1	0.4			10 s		s.	0.12	3.0	cloudy	M. H. Perry.
Portland, Maine	30.03	762.7	30.08	764.0	58	14.4	70	ne.	11	4.9		4 c	0			0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.08	764.0	30.15	765.8	57.0	13.9	56	n.	8	3.6		0	sk.			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.97	634.2	30.07	763.8	60	15.6	58	e.	8	3.6		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.94	760.5	29.97	761.2	61.5	16.4	86	ne.	6	2.7		8 ck	sk.	w.		0	0	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.65	753.1	30.00	762.0	68	20.0	30	n.	5	2.2		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.58	751.3	30.13	765.3	48	8.9	81	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.91	759.7	29.98	761.5	68.0	20.0	55	se.	2	0.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	30.00	762.0	54.0	12.2	74	w.	14	6.3		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.87	758.7	29.91	759.7	31	−0.6	88	ne	4	1.8		2 cs	0			inap.	inap.	clear	A. P. Leavitt.
St. Paul, Minnesota	28.85	732.8	29.70	754.4	49.5	9.7	96	nw.	7	3.1			10 n		nw	0.90	22.9	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.37	746.0	30.24	768.1	45	7.2	90	n.	17	7.6			10 s			0.96	24.4	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.94	658.9	30.19	766.8	64	17.8	36	nw	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.84	757.9	29.91	759.7	65.0	18.3	93	n	5	2.2			fg.			0	0	dense fog	F. R. Day.
Sanford, Florida	29.79	756.7	29.84	757.9	71	21.7	87	sw.	9	4.0		0	8 ks		sw.	inap.	inap.	cloudy	J. B. Marbury.
Sandusky, Ohio	29.18	741.2	29.84	757.9	64	17.8	84	s.	8	3.6		3 ck	5 k	s	s.	0.38	9.7	clearing	B. F. Hough.
Sandy Hook, New Jersey	29.93	760.2	29.96	761.0	63.0	17.2	84	e.	11	4.9		5 k	3 k	e.	e.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.90	759.4	29.97	761.2	65	18.3	68	nw.	6	2.7		3c;ck	0	e.		0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.82	757.4	29.91	759.7	68	20.0	90	n.	6	2.7		0	5 k		n.	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.81	681.0	30.42	772.7	29	−1.7	80	w.	4	1.8		2 cs	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.80	756.9	30.04	763.0	64.5	18.1	64	n.	8	3.6		0	3 s		n	0.02	0.5	clear	E. N. Meekins.
Sill, Fort, Indian Territory	29.05	737.9	30.27	768.8	46	7.8	77	n.	12	5.4		0	hz.			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.96	761.0	30.02	762.5	53.5	11.9	73	s.	20	8.9			10 ks		s.	0.43	10.9	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.70	754.4	30.17	766.3	52.5	11.4	66	n.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.86	758.4	29.90	759.4	65.0	18.3	90	n.	6	2.7		4 cs	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.38	720.8	30.42	772.7	46	7.8	71	n.	1	0.4		0	sk.			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.95	760.7	50	10.0	72	w.	9	4.0		0	0			inap.	inap.	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.32	693.9	30.28	769.1	52	11.1	80	nw.	6	2.7		0	0			0.55	14.0	clear	Louis Dorman.
Thomas, Camp, Arizona					68	20.0	57	se			4	0	5 s			0	0	fair	R. C. Lord.
Toledo, Ohio	29.13	739.9	29.81	757.2	63	17.2	93	e.	4	1.8			fg.			0.78	19.8	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.92	760.0	29.94	760.5	42	5.6	73	s	12	5.4		6 cs	0			0.02	0.5	fair	Samuel Applegate.
Verde, Fort, Arizona					64	17.8	47	w.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	66.0	18.9	90	nw.	2	0.9		0	4 s		w.	0.11	2.8	fair	James Keneaty.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.86	758.4	29.98	761.5	55.0	12.8	88	calm	0	0		9 k	hz.	sw.		0	0	cloudy	B. M. Pursell.
West Las Animas, Colorado	20.46	672.1	30.28	769.1	38.5	3.6	48	n.	8	3.6		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	29.86	758.4	29.91	759.7	65.0	18.3	90	ne.	4	1.8		7 c;ck	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.66	728.0	29.95	760.7	42.1	5.6	100	nw.	25	11.2			10 n		/nw.	0.02	0.5	light rain	E. H. Thompson.
Yuma, Arizona	29.74	755.4	29.88	758.9	86.4	30.2	32	ne.	14	6.3		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1		3 k		nw.	0.04	1.0	fair	W. H. Jackson.
Bogota, U. S. C.	22.05	560.1			50.4	10.2	72	s.	2	1		1 cs	2 s			0.150	3.8		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.92	760.0	82.0	27.8	85	e.	5	2.2		6 cs	4 s	w.	se.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	79	26.1	82	se.			2	4 c	5 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.30	745.7	29.92	760.0	78	25.6	89	s.			1	2 ck	6 ks	s.	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	90	se.			1	4 ck		se.		0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A.	29.80	756.9	29.86	758.4	36.5	2.5	95	n.	9	4.0		1 c	0	n.		0	0		Fortescue & W[illegible]

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 39° 15′, E. 22° 49′	30.02	762.5	77	25.0	69	ene.			1		2	ene.				sm'h		d. clouds.
H. M. S. Coquette, N. 36° 10′, E. 18° 04′	30.07	763.8	75	23.9		nnw.			2		2					sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.78	756.4	78	25.6	91	ssw.			4		8	ssw.						d. clouds.
H. M. S. Griffon, N. 37° 15′, W. 69° 40′	29.81	757.2	77	25.0	69	nne.			4-6		3	nne.				7	nne.	squally.
H. M. S. Iris, off Port Said, Egypt	30.01	762 2	80	26.7	78	ene.			3		0							blue sky.
H. M. S. Tenedos, N. 50° 45′, W 57° 46′	30.08	764.0	51	10.6	86	nne.			4		10					2	n.	drizzling.
H. M. S. Tyne, N. 30° 03′, W. 12° 59′	30.08	764.0	73	22.8	72	ne.			4		1					3	nne.	blue sky.
U. S. Navy Yard, Portsmouth, N. H *	30.00	762.0	59	15.0	82	ne.	24	10.7			8		ne.	0	0			cloudy.
U. S. S. Alliance, N. 43° 32′, W. 64° 48′	30.05	763.3	55	12.8	87	ene.			4		2		calm	0	0	sm'h	ene.	clear.
U. S. S. Galena, N. 26° 55′ W. 64° 40′			79	26.1	95	ssw			3		2		ssw.			var.	s.; w.	fair.
U. S. S. Jamestown, N. 29° 01′, W. 20° 13′	30.25	768.3	76	24.4	82	n.			3		2					sm'h	ne.	clear.
U. S. S. Kearsarge, Lisbon, Portugal	30.15	765.8	72	22.2	76	wnw.			3		5		wnw.					fair.
U. S. S. Lancaster, Port Mahon, Spain	30.01	762.2	79	26.1	78	wsw.			3		2		calm			sm'h		fair.
U. S. S. Portsmouth, Woods Holl, Mass	29.99	761.7	63	17.2	100	nne.			2		5		ne.					fair.
U. S. S. Powhatan, St. Johns, N. F	29.76	755.9	52	11.1	100	n.			3-4		10							rainy.
U. S. S. Quinnebaug, Port Mahon, Spain	30.11?	764.8?	77.0	25.0	77	wsw.			2		2		wsw.			sm'h		fair.
U. S. S. Saratoga, N. 40° 58′, W. 73° 26′	30.00	762.0	64	17.8	89	ne.			3		5?		ne.	0	0	sm'h		clear?
U. S. S. Swatara, Charlottetown, P. E. I	30.05	763.3	56	13.3	81	ne.			2		2		nnw.	0	0			clear.
U. S. S. Vandalia, Halifax, N. S	30.06	763.5	54	12.2	94	n.			2		2							fair.
U. S. S. Yantic, N. 45° 35′, W. 54° 10′			50	10.0	93	nnw.			5		10					sm'h		overcast
S. S. British Crown, N. 39° 48′, W 67° 08′†	29.84	758.9	73	22.8		ene.			5		2		ene.	0	0	mod	ene.	clear.
S. S. British Prince, N. 51° 43′, W. 15° 07′*†	29.58	751.3	60	15.6		se.			2		7		ese.	0	0	mod.	sse.	cloudy.
S. S. Ohio, N. 41° 52′ W. 66° 14 †	29.87?	758.7?	61	10.1	94	e.			2		3		e.	0	0			clear.
S. S. Grecian, N. 55° 55′ W. 9° 20′	29.79	756.7	57	13.9	94	ese.			4		10			15 h'r	15 h'r	sm'h		hazy.
S. S. Nova Scotian, N. 41° 43, W. 66° 09′	29.97	761.2	59	15.0		ene.			3		10		ne.			sm'h		cloudy.
S. S. Polynesian, Montreal, Canada	30.04	763.0	64	17.8		ne.			3		5?		s.	0	0			cloudy?
S. S. Prussian, Greenock, Scotland	29.86	758.4	56	13.3		ene.			3		9		ene.	13 h'r	13 h'r			cloudy.
S. S. Scandinavian, N. 53° 13′, W. 10° 01′	29.70	754.4	56.5	13.6		ene.			5		10		e.	2 h'r	2 h'r			d. clouds.
S. S. Sardinian, N. 56° 37′, W. 27° 42′	29.82	757.4	50	10.0		ene.			6		10		ene.	0	0	long	ne.	overcast.
S. S. Alvo, N. 10° 38′, W. 78° 17′ *	29.85	758.2	80	26.7		wsw.			2		6		calm	0	0	long	e.	hazy.
S. S. Andes, N. 22° 30′, W. 67° 20′ *†	30.10?	764.5?							2		5		sse.	0	0	sm'h	sse.	squally.
S. S. Avilla, N. 18° 11′, W. 73° 43′ *†	29.95	760.7	82	27.8		e.			1		4		e.	rain	rain	sm'h		
S. S. Assyria, N 36° 59′, W. 9° 04′	30.17	766.3	73	22.8	81	nw.			3		2		nw.	0	0	3	w.	clear.
S. S. Australia, N. 40° 52′, W. 69° 36′ *†	29.91	759.7	62	16.7		n.			2		6		n.	0	0			hazy.
S. S. Dorian, Palermo, Sicily	30.09	764.3																
S. S. Furnesia, Liverpool, Eng †	29.81?	757.2?	69	20.6	85	s.			1		7		s.	4 h'r	4 h'r			cloudy.
S. S. Cephalonia, N. 42° 44′, W. 61° 31′	29.97	761.2	58	14.4	88	nne.			3		5		nne.	0	0	sl't	wnw.	d. clouds.
S. S. Bothnia, N. 51° 20′, W. 15° 02′	29.53	750.0	63	17.2	?	ese.			4		10		ese.	5 h'r	5 h'r	mod.	ne.	gloomy.
S. S. Pavonia, N. 41° 06′, W. 61° 05′ *	29.94	760.5	68	20.0	74	nnw.			4		3		n.	0	0	sm'h		clear.
S. S. Scythia, N. 45° 50′, W. 45° 13′	29.23	742.4	57	13.9	100	wnw.			4		10		wnw.	12 h'r	12 h'r	mod	var.	hazy.
S. S. Samaria, N. 47° 25′ W. 36° 55′*	29.17	740.9	66	18.9		e.			5		1		e.	3 h'r	3 h'r	rg'h	ene.	clear.
S. S. Canada, N. 42° 08′, W. 65° 04′*	29.99	761.8	62.6	17		ne.			5	ck	0	ne.		0	0	sm'h	ne.	clear
S. S. Bohemia, N. 45° 02′, W. 40° 35′ †	29.19?	741.4?				var.			5-9		7		w.	2 h'r	2 h'r	h'vy	w.	squally.
S. S. Gellert, N. 49° 50′, W. 20° 20′	29.47	748.5	56	13.3	87	e.			1		10			2 h'r	2 h'r	mod.	n.	covered.
S. S. Rugia, N. 45° 14′, W. 48° 41′	29.52	749.8	50	10.0		nnw.			6		10		nnw.	12 h'r	12 h'r	r'gh	nnw.	cloudy
S. S. Silesia, Hamburg, Germany	29.87	758.7	55.8	13.2		ne.			3		8		ne.	0	0			cloudy.
S. S. Westphalia, N. 41° 12′ W. 68° 35′	29.97	761.2	64	17.8	83	ene.			3		2		e.	0	0	sm'h	ene.	fair.
S. S. City of Paris, N. 40° 34′, W. 68° 13′*	29.95	760.7				ne.			4		3			0	0	sl't	sse.	fine.
S. S. Nessmore, N. 45° 05′, W. 50° 51′ *	29.60	751.8	55	12.8	?	nw.			6		10		nw.	10 h'r	10 h'r	r'gh	nw.	misty.
S. S. Archimedes, N. 43° 06′, W. 40° 56′	29.28	743.7				wsw.			6-7		5		wsw.			high	var.	squally.
S. S. Hevelius, N. 27° 07,′ W. 21° 30′ *†	30.15	765.8	76	24.4		ene.			4		6?		ene.	0	0	sm'h		clear?
S. S. Teneirs, N. 12° 39′, W. 26° 21′	30.00	762.0	80.4	26.9	85	sw.			4	ck	7 k		nnw.	0	0	4	e.	squally.
S. S. Sirius, N. 35° 10′, W. 14° 05′	30.18	766.6				wsw			2		1		wsw.	0	0	long	wnw.	clear.
S. S. Rio Grande, N. 35° 10′, W. 74° 00′†	29.89	759.2	76	24.4		ne.			6		8		ne.; w.	driz.	driz.	h'vy	ne.	overcast.
S. S. Chalmette, New York, N. Y			65	18.3		ne.			3		6			0	0			fair.
S. S. New York, N 35° 28′ W. 75° 00′ *†	29.92	760.0	72	22.2		nne.			5		5		ne.	0	0	long	ne.	fair.
S. S. Lone Star, N. 34° 29′, W. 76° 13′ *†	29.95	760.7	72	22.2		nne.			3		10					r'gh	ne.	drizzling.
S. S. Alleghany, Boston, Mass †	30.03	762.7	60	15.6		nne.			2		4?		ne.	0	0			cloudy.
S. S. Archimede, Palermo, Sicily†	30.15	765.8	84	28 9		ne.			2		1		ne.	0	0			clear
S. S. City of Merida, N. 21° 20′, W. 89° 30′*†	29.90	759.4	80	26.7		e.			2		2		e.	0	0	light	ne.	fine.
S. S. City of Washington, Vera Cruz, Mexico *†	29.85	758.2	80	26.7		n.			5		10		nnw	4 h'r	4 h'r	light	nw.	squally.
S. S. Cienfuegos, N. 21° —′, W. 79° 28′*	29.93	760.2	80	26.7		sse.			2		9		wnw.	8 h'r	8 h'r			raining.
S. S. Denmark, New York, N. Y †	30.01	762.2	65	18.3		n.			2		3			0	0			fair.
S. S. England, N. 45° 40′, W. 39° 21′	29.17	740.9				w.			6		2		w.	4 h'r	4 h'r	cross	var.	clear.
S. S. Greece, N. 43° 19′, W. 47° 54′	29.45	748.0	54	12.2	100	nw.			7		9		nw.	12 h'r	12 h'r	mod	var.	cloudy
S. S. Helvetia, N. 51° 06′ W. 15° 50′	29.49	749.0	60	15.6	94	wsw.			3		10		wsw.	9 h'r	9 h'r	mod.	wsw.	clearing.
S. S. The Queen, N. 41° 42′, W. 58° 55′	29.78?	756.4?	56	13.3		n			4		5		nnw.	0	0	mod.	nnw.	fair.
S. S. Donau, N. 49° 35′, W. 9° 47′	29.70	754.4				ssw.			3		6		w.	10 h'r	10 h'r	mod.	ssw.	fair.
S. S. Elbe, N. 41° 00, W. 67° 10′	29.92	760.0	61.7	16.5	89	nne.			4		4		ne.	0	0	sm'h	nne.	hazy.
S. S. Fulda, N. 49° 55′, W. 8° 11′	29.66	753.3	60.8	16.0	89	ssw.			3		5		sw.	4 h'r	4 h'r	mod.	ssw.	fair.
S S. Hermann, N. 45° 18′, W. 50° 24′	29.57	751.1	54.5	12.5	82	nnw.			4		10		nnw.	20 h'r	20 h'r	r'gh	nnw.	rainy.
S. S. Ohio, N. 46° 09′, W. 38° 18′	29.13	739.9				sw.			6		7		sw.	8 h'r	8 h'r	long	ssw.	fair.
S. S. Rhein, N. 49° 36′, W 20° 49′	29.48	748.8	59.0	15.0		nne.			2		4		ne.	3 h'r	3 h'r	mod	ne.	fair.
S. S. Strassburg, N. 50° 10′ W 2° 31′	29.73	755 1	68.5	20.3	58	wsw.			4		8		wsw.	5 h'r	5 h'r	4	w.	hazy.
S. S. Werra, N. 43° 36′, W 59° 00′	29.94	760.5	51.8	11.0		nne.			4		3?		nne.	0	0	sm'h	nne.	covered?
S. S. Weser, N. 31° 37′. W. 62° 44′	29.93	760.2	80.6	27.0		sw.			4		5		sw.	½ h'r	½ h'r	mod.	sw.	fair.
S. S. City of Augusta, Savannah, Ga†	29.90	759.4				nnw.			2		4		nw.	0	0			fair.
S. S. Muriel, Saint Thomas, W. I	29.95	760 7	84	28.9		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, New York, N. Y			68	20.0		ene.			1		2			0	0			clear.
S. S. Pennland, N. 48° 43′, W. 40° 44′			59	15.0	88	se.			8		10		e.	8 h'r	8 h'r	str'ng	e.	threatening.
S. S. Vaderland, Antwerp, Belgium			64	17.8		ssw.			2		10		sw.	4 h'r	4 h'r			raining.
S. S. Waesland, N. 47° 58′. W. 41° 00′	29.25	742.9	60	15.6		ne.			9		10		ne.	2 h'r	2 h'r	high	ene.	squally.
S. S. P. Caland, Jersey City, N. J	30.01	762.2	64.9	18.3	82	ne.			3									hazy.
S. S. W. A. Scholten, Rotterdam, Holland			65.3	18 5	85	wsw.			2		5		e.	4 h'r	4 h'r			hazy.
S. S. Caracas, Puerto Cabello, Venezuela*†	30.00	762.0	81	27.2	87	w.			1		1			0	0	light	ne.	clear.
S. S. State of Georgia, N. 48° 55′, W. 47° 21′	29.49	749.0	54	12.2		ne.			7		10			light	light	r'gh	ne.	light rain.
S. S. State of Indiana, N. 53° 07′, W. 31° 20*†	29.50	749.3	54	12.2		ene.			6		6		e.	0	0	r'gh	ene.	fair.
S. S. State of Nevada, Glasgow, Scotland †	29.82	757.4	56	13.3		ne.			4		10		ne.	driz.	driz.			cloudy.
S. S. Thingvalla, Christiansand, Norway †	29.93	760.2	55.4	13.0		n.			3		3		n.	0	0			clear.
S. S. Romano, N. 48° 06′, W. 18° 20′			61	16.1		w.			5		7?		w.	0	0	mod.	w.	clear?
S. S. Salerno, N. 46° 39′. W. 39° 43′ *†	28.95	735.3	62	16.7		se.			9		10		se.	2.0	51.	h'vy	s.	raining.
S. S. Dominion, N 50° 41′, W. 58° 17′*†	29.99	761.7	51	10.6		nne.			3		10		ene.			mod	ne.	cloudy.
S. S. Texas, N 49° 03′, W. 63° 55′ *†	30.10	764.5	46	7.8	92	nw.			6				nw.			sm'h		cloudy.
S. S. Lake Huron, N. 49° 20′, W. 65° 37′	30.18	766.6	46	7.8		ene.			1		0			0	0	sm'h		clear
S. S. Lake Manitoba, N. 56° 07′, W. 9° 25′	29.72	754.9	57	13.9		ene.			4		10		ene.	12 h'r	12 h'r	mod.	e.	raining.
S. S. Daniel Steinmann, Antwerp, Belgium *†	29.74	755.4	63	17.2		sw.			3		10			2 h'r	2 h'r			cloudy.
S. S. Saxon, Philadelphia, Pa †	29.97	761.2				nne.			1		5			0	0			fair.
S. S. Adriatic, N. 49° 30′, W. 18° 00′*†	29.54	750.3	62	16.7		ene.			6				ne.	0	0	mod.	n.	overcast.
S. S. Celtic, Queenstown, Ireland †	29.68	753.9	61	16.1	77						5		sw.	3 h'r	3 h'r	sm'h		fair.
S. S. Iowa, N. 48° 50′, W. 46° 05′†	29.46	748.3	56	13.3		ne.			6		10		ne.	11 h'r	11 h'r	r'gh	ne.	cloudy
S. S. Amsterdam, N. 40° 30′, W. 69° 34′ *	29.93	760.2	62.6	17		ne			2									fair.
S. S. City of Alexandria, Havana, Cuba *†	29.83	757.7	79	26.1		calm			0									d. clouds.
Bk. Arda, N. 50° 29′. W. 15° 38′ †	29.56	750.8				var.			2		2		w.	sh'rs	sh'rs	mod.	w.	squally.
Bk. Alpheus Marshall N. 31° 08′ W 36° 15′ *†	30.05	763 3	79	26.1	95	ssw.			4		6		ssw.	1 h'r	1 h'r	mod.	wnw.	fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 39° 08′, W. 67° 18′	29.97?	761.2?	71	21.7	75	ne.			5		5		ne.	0	0	sm'h	se.	fair.
Schr. Arthur Burton, Boston, Mass						nw.			1		2		calm	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Race Point, N. F.†	30.03	762.7	60	15.6		ene.			3									clear.
S. S. Antonio Lopez, N. 43° 49′, W. 7° 50′	29.95	760.7	63.5	17.5	91	ssw.			6		10			8 h'r	8 h'r	mod.	ssw.	drizzling.
Bgt. Achsah, N. 39° 52′, W. 68° 27′†	29.88	758.9	74	23.3		ne.			6		4		ne.	0	0	short	ne	fair.
Bk. Aureola, N. 3° 20′, W. 25° 10′†	29.92	760.0	88	31.1		sse.			6		5		s.	0	0	mod.	se.	fair.
Bk. Adelaide, N. 14° 21′, W. 40° 54′*†	30.07	763.8				ene.			4		0			0	0	light	e.	clear.
Bg. Belle of the Bay, N. 24° 04′, W. 79° 50′ †	29.86	758.4				sw.			1		7		se.	light	light	sm'h	ne.	threatening
S. S. Cannonbury, San Juan, Porto Rico, W. I *†	29.96	761.0				calm.			0		2		e.	0	0	sm'h		clear.
Bk. Ceylon, N. 35° 30′, W. 50° 05′†	29.86	758.4	80	26.7	70	w.			5		8		sw.	0	0	r'gh	wnw.	cloudy.
Schr. C. R. Flint, N. 30° 45′, W. 57° 21′†	29.96	761.0	81	27.2		w.			4		5		wsw.	2 h'r	2 h'r	mod	se.	fair.
Bk. Cato, N. 41° 48′, E. 4° 05′ †	29.98	761.5				n.			1		1		n.					clear.
Bk. Don Justo, N. 49° 46′, W. 41° 10′						e.			4		10		e.			r'gh	var.	overcast.
Bk. Childwall, N. 15° 49′, W. 25° 18′			80	26.7	91	sse.			4		6		s.	0	0	sm'h		fair.
S. S. D. J. Foley, N. 38° 38′, W. 75° 00′*†	29.96	761.0	69	20.6	85	ne.			2		4		ne.	0	0	long	ne.	fair.
Bkt. David A. Preston, Windsor, N. S						n.			2		0			0	0			clear.
Bk. Diamant, N. 37° 31′, W. 63° 14′	29.79	756.7	74.5	23.6	76	ene.			4		10		w.	0	0	3	ne.	covered.
S. Dynomine, N. 45° 00′, W. 10° 10′			64.2	17.9	96	s.			6		10			mod.	mod.	r'gh	wsw.	raining.
S. Dora, N. 39° 01′, W 67° 05′*†	29.87	758.7	70.3	21.3		ene.			5		3		e.	0	0	sm'h	ne.	gloomy.
S. David Stewart, N. 26° 38′, W. 65° 34′			86	30.0		sw.			4		4?		sw.	0	0	mod.	ssw	cloudy.?
S. E. J. Spicer, Antwerp, Belgium	29.67	753.6	62	16.7	100	ssw.			3		10		sw.	4 h'r	4 h'r			misty.
Schr. Edith R. Seward, St. Simon's Island, Ga.†	29.92	760.0	69	20.6		n.			2		7		ne.	0	0			cloudy.
Bk. E. D. Bigelow, Galveston, Texas †	29.96	761.0	75	23.9		n.			5		4		n	3 h'r	3 h'r			gloomy.
Bk. Edmund Phinney, N. 39° 17′, W. 73° 41†′	30.00	762.0				ene.			2		5			0	0	mod.	ene.	fair.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†.	29.98	761.5	60	15.6		calm			0		3		calm	0	0			clear
S. Gatherer, N. 17° 15′, W. 34° 05′*.	29.98	761.5	82	27.8	67	nne.			2		1		n.	0	0	sm'h	ese.	clear.
Bg. George, Salinas, Porto Rico. W. I*†	29.95	760.7	82	27.8		ene			1		2		ene.	0	0			fair.
Bk. Galeon, N. 32° 15′, W. 14° 35′ †	30.22	767.6	72	22.2		nnw.			1		2		nnw.	0	0		nw.	blue sky.
Bk. Grey Eagle, N. 13° 50′, W. 39° 20′						ese.			2		0			0	0	short	ne.	clear.
S. Hedwig, N 30° 45′ W. 13° 44′	30.22	767.5	73.6	23.1	74	ne.			4		4		ne.	0	0	2	ne.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla †	29.91	759.7				ne.			2		2		ne	0	0			clear.
Bk. Johanne, N. 52° 32′, W. 33° 15′*†	29.60	751.8	56	13.3		ese.			4		5		e; se.	0	0	mod.	e.	fine.
Schr. John L. Thomas, N. 32° 05′, W 78° 06′*†	29.86	758.4	82	27.8	83	ene.			2		10		ene.	18 h'r	18 h'r	h'vy	ne.	rainy.
Schr. Jennie N. Huddell, Delaware Bay †	29.99	761.7	69	20.6	80	ne.			2		5		sw.	0	0			fair.
Bk. John H. Pearson, N. 42° 22′, E. 4° 34′						wnw.			4				nw.			short	nw.	cloudy.
Schr. Jas Slater, N. 0° 18′, W. 48° 00′†	29.99	761.7				ene.			5		10		ene.	0	0	r'gh	e.	hazy.
Bg. Josefa, N. 50° 21′, W. 28° 58′ †	29.42	747.3				e.			6		10			6 h'r	6 h'r	hv'y	e.	raining.
Bkt. Kryolith, N. 52° 16′, W. 51° 12′*†	30.00	762.0				nne.			4		10		ene.			long	ene.	foggy.
Bk. Lady Hincks, N. 27° 54′, W. 28° 05′ *†	30.17	766.3							2					0	0			fair.
Bg. L. & W. Armstrong, N. 23° 21′, W. 65° 48′ *†	29.94	760.5				sse.			2		2		se.	0	0	sm'h	se.	clear.
S. S. Madrid, Kertch, Russia†	29.86	758.4	70	21.1	85	w.			2		1		w.	2 h'r	2 h'r			fair.
Bk. Orpheus, N. 45° 21′, W. 47° 37′			55	12.8		n.			5		6		nne.	6 h'r	6 h'r	mod.		fair.
Schr. Rollin Sanford, N. 26° 15′, W. 82° 00′ †	29.82	757.4				n.			2		2		calm.	0	0	sm'h		fair.
Bk. Rosalie, N. 46° 44′, W. 13° 45′*†.	29.67	753.6				ssw.			4		10		s.	1 h'r	1 h'r	mod.	wsw.	cloudy.
Schr. S. B. Hubbard, Doboy Island, Ga			80	26.7		ne.			5					0	0			fine.
Bk. Saga, N. 62° 18′, E. 19° 50′ *†	29.96?	761.0?	43	6.1		var.			4–6		7		nne.	16 ½	h'r	cross	nne.	snow & hail.
Bgt. Sunlight, N. 20° 37′, W. 63° 08′ *†	29.98	761.5				ne.			2		2		ne.	0	0	mod.	se.	clear.
Bk. Samuel B. Hale, N. 41° 53′, W. 66° 43′*†	30.10?	764.5?				ne.			3				ne.	0	0	short	ne.	clear.
Bk. Scud, N. 40° 05′, W. 73° 30′ *†	29.95	760.7	71	21.7		ne.			4		4		calm	0	0	long	se.	hazy.
Bk. St. Lawrence, N. 35° 29′, W. 63° 52′ *†	29.70	754.4				var.			6					6 h'r	6 h'r	con.		cloudy.
Bk. Southern Belle, off Cape San Sebastian, Spain†.	29.90	759.4	75	23.9		n.			2							sm'h		cloudy.
Bg. Teneriffe, N. 40° 30′, W. 68° 10′*	29.96	761.0				ne.			4		0					sm'h		fine.
Bk. Tuck Sing, N. 30° 49′, W. 79° 14′*†	29.87	758.7				nnw.			1		8		w.	1 h'r	1 h'r	h'vy	nne.	squally.
S. S. Tower Hill, off Beachy Head, Eng*†	29.76	755.9				wsw.			6		6		nw.			r'gh	wsw.	raining.
Schr. Viola Reppard, Brunswick, Ga†	29.94	760.5	74	23.3		nw.			2		4		se	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Port Camamu, Brazil	29.99	761.7	74.5	23.6	90	nnw.			1		4							d. clouds.
H. M. S. Opal, St. Helena, Africa	30.08	764.0	69	20.6	85	ese.			3		4		ese.					blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.17	766.3	53.5	11.9	90	s.			6–7		10							misty.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.97	761.2	76.1	24.5	81	ssw.			3		9		ssw.	0	0	3		overcast.
H. P. M. S. Bengo, Zaire, Lower Guinea	29.90	759.4	76.5	24.7	86	wsw.			3		10			0	0	1		overcast.
H. P. M. S. Douro, S. 3° 29′, E. 9° 28′	29.99	761.8	75.2	24.0	91	ssw.			4		10			0	0	4	s.	overcast.
U. S. S. Brooklyn, Montevideo, Uruguay*.	30.12	765.0	54	12.2	80	s.	24	10.7			10		s.	0.06	1.5	rg'h	s.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.16	766.1	53	11.7	86	sse.			6		10		n.			r'gh		
S. S. Hohenstaufen, St. Antonio, Brazil	30.08	764.0	77.0	25.0	96	ene.			4		4		ene.	0	0	sm'h	ene.	fair.
Bk. E. L. Pettingill, S. 17° 00′, W. 37° 00′*†	30.15	765.8	76	24.4		ne.			3		5		e.	0	0	sm'h	sse.	
Bk. Great Surgeon, S. 38° 01′, W. 0° 47′*†	30.40	772.1	55	12.8		ssw.			2		5		ssw.	½ h'r	½ h'r	mod.	sw.	fair.
Bk. Godeffroy, S. 55° 39′, W. 63° 23′	29.65	753.1	32.0	0.0	85	sw.			6–7		6		sw.	snow	snow	r'gh	sw.	squally.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.16	766.1	52	11.1		sse.			4		10		s.	10 h'r	10 h'r	sm'h		cloudy.
Bkt. Willie, S. 6° 55′, W. 33° 20′*†	30.05	763.3	82	27.8		e.			5		4		e.	0	0	mod.	se.	fair.
Bk. Mohican, S. 10° 40′, W. 34° 20′	30.02	762.5	82	27.8		ese.			6		4?		e.	0	0	r'gh	se.	cloudy.?
S. S. Olbers, Rio de Janeiro, Brazil	29.99	761.7	75.5	24.2	90	s.			4		6		s.	0	0	sm'h		fine.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.02	762.5	68	20.0		s.			2		0					1	wsw.	blue sky.
Bg. John Wesley, S. 10° 29′, W. 35° 22′*†	29.99	761.7	79	26.1		ene.			4		6		n.	¼ h'r	¼ h'r	mod.	ne.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Olga Bay, Siberia	29.51	749.5	62	16.7	61	sse.			1		10	se.				sm'h		overcast.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 36′	29.91	759.7	64.5	18.1	60	nw.			6		1					1	nw.	squally.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.92	760.0	83.7	28.7	81	nw.			1		4		nw.					d. clouds.
H. M. S. Mutine, N. 2° 10′, W. 91° 55	29.94	760.5	75	23.9		s.			3		10					2	s.	overcast.
H. M. S. Zephyr, N. 41° 45′, E. 140° 43′	29.93	760.2	66	18.9	?	sse.			4		0					2	se.	blue sky.
H. P. M. S. Tamega, Canton, China	29.91	759.6	83.3	28.5	77	n.			3		8			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.03	762.7	69	20.6	80	e.			1		5		ne.	inap.	inap.			fair.
U. S. S. Essex, Roze Island, Corea	29.92	760.0	67	19.4	79	nw.			5		2					sm'h	nw.	clear.
U. S. S. Hartford, N. 8° 42′, W 79° 30′*	29.84	757.9	81	27.2	91	calm			0		7			3 h'r	3 h'r	sm'h	s.	cloudy.
U. S. S. Monocacy, Che Foo, China	30.07	763.8	63	17.2	62	w.			3		0					mod.	w.	clear.
U. S. S. Palos, Hong Kong, China	29.93	760.2	81	27.2	87	e.			1		5		ese.					fair.
U. S. S. Pensacola, N. 19° 42′, E. 107° 47′ *	29.90	759.4	82	27.8	79	ese.			2		5		ese.	0	0	sm'h		fair.
U. S. S. Richmond, Yokosuka, Japan	29.96	761.0	70	21.1	80	ne.			1		7		ne.	1.50	38.1			fair.
S. S. Coptic, N. 40° 43′, W. 129° 43′	30.11	764.8	65.5	18.6	81	n.			4		4		n.	0	0	sm'h	n.	clear.
S. S. Oregon, N. 43° 20′, W. 124° 25′†	30.08	764.0	62.5	16.9	86	n.			2							sm'h		clear.
S. S. Willamette, N. 38° 36′, W. 123 38′ †	29.98	761.5	58	14.4	94	calm			0		0			0	0	sm'h		haze; fog.
S. S. Ancon, N. 36° 51′, W. 122° 16′†	29.96	761.0	57	13.9	87	nnw.			1		0					light	w.	clear.
S. S. State of California, Portland, Oregon †	30.21	767.3	55	12.8	87	w.			1		0							clear.
S. S. Queen of the Pacific, Hunter's Point, Cal.†	29.97	761.2	63	17.2	89	calm			0		2			0	0			clear.
S. S. Victoria, San Francisco, Cal.†	29.86?	758.4?	62	16.7	88	nnw.			2		5		nnw.					fair.
S. S. City of Pekin, N. 38° 30′, E. 146° 05′†	30.00	762.0	67	19.4	79	e.			2		10		ne.	0	0	small	n.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.96	761.0	83	28.3	87	se.			1		3		se.	1 h'r	1 h'r			clear.
S. S. City of Rio de Janeiro, Yokohama, Japan †	30.02	762.5	69	20.6	80	n.			2		7		ne.	0	0	sm'h		cloudy.
S. S. Grenada, Panama, Panama †	29.86	758.4	78	25.6	86	calm			0		7		ne.	4 h'r	4 h'r	light	s.	rainy.
S. S. San Blas, N. 23° 08′, W. 106° 50′ †.	29.90	759.4	81	27.2		ne.			4		7		ne.	0	0	sm'h	n.	hazy.
S. S. Zealandia, N. 5° 15′, W. 104° 30′†	30.02	762.5	82	27.8	91	calm			0		0					sm'h		clear.
S. S. San Juan, N. 17° 18′, W. 101° 39′			78	25.6		ese.			2	5 ck?			ese.	1 h'r	1 h'r	light	ne.	cloudy.?

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Armenia, N. 6° 45′, W. 114° 40′ *	29.86	758.4	78	25.6	78	s.			4		10		s.	0	0	mod.	se.	overcast.
S. Storm King, N. 24° 22′, W. 122° 57′ *†	30.00	762.0				n.			2		10		n.	0	0	long	nnw.	cloudy.
S. St. David, N. 42° 39′, W. 135° 36′ *†	30.26	768.6	70.3	21.3	95	se.			1		10		w.	2 h'r	2 h'r	light	wnw.	foggy.
S. E. B. Sutton, N. 32° 30′ W. 122° 30′*†	30.03	762.7	62	16.7	94	sw.			2		0			0	0	long	nw.	foggy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 58′, E. 156° 21′	29.96	761.0	81.3	27.4	89	s.			1		5					1	se.	d. clouds
U. S. S. Iroquois, Callao, Peru	30.06	763.5	62	16.7	88	sse.			2		10							cloudy.
U. S. S. Lackawanna, Arica, Peru*	30.00	762.0	60	15.6	82	e.			1		10							cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	60	15.6	88	s.			2		10		s.					cloudy.
U. S. S. Wachusetts, Callao, Peru*	30.02	762.5	61	16.1	94	se.			1		10		calm					overcast.
S. S. City of Sydney, Sydney, N. S. W *†	30.10	764.5	58	14.4	82	sw.			1		0							clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	65	18.3		se			2					0	0	mod.	se.	dense fog.
S. David Crockett, S. 46° 40′, W. 104° 35′*	29.40	746.7	45	7.2	88	se.			7		8		se.	12 h'r	12 h'r	h'vy	se.	drizzling.
S. Sovereign of the Seas, S. 27° 16′, W. 91° 17′*†	30.10	764.5	64	17.8	100	nnw.			4		8		nnw.	3 h'r	3 h'r	long	ssw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 49′, E. 51° 20′	30.19	766.8				sse.			3		7	ese.				5	ese.	d. clouds
H. M. S. Euryalus, Zanzibar, Zanzibar	30.05	763.3	81	27.2	74	sse.			2		1	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.03	762.7	80	26.7	87	se.			3		2	sse.				3	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.91	759.7	91.5	33.1	57	nw.			1		0							misty.
U. S. S. Juniata, Batavia, Java	29.95	760.7	84	28.9	96	ene.			2		0			0	0	sm'h		clear.
S. S. Galatia, N. 11° 37′, E. 84° 35′†	29.79	756.7	83	28.3	83	wsw.			3		5		wnw.	0	0	mod.	ssw.	fine.
S. S. Benledi, N. 10° —′, E. 59° —′*	29.81	757.2	81	27.2	85	wsw.			5–6		6		sw.	4 h'r	4 h'r	r'gh	var.	squally.
Bk. Pilgrim, S. 35° 36′, E. 23° 35′*†	30.15	765.8				e.			4		3		e.	0	0	long	wsw.	fine.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 22, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	30.06	763.6	80.2	26.8	80	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Roziere.
Algiers	.....	.....	30.04	763.1	79.9	26.6	58	w.	.....	.....	4	.....	0	.....	.....	0	0	clear	Thève.
La Galle	.....	.....	30.00	762.0	84.2	29.0	63	e.	.....	.....	1	.....	0	.....	.....	0	0	clear	Fonfrède.
Tunis	.....	.....	30.07	763.7	82.0	27.8	38	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Delord.
Saida	.....	.....	30.08	764.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Pérès.
Tebessa	.....	.....	30.11	764.7	86.0	30.0	26	s.	.....	.....	4	.....	1	.....	.....	0	0	very fair	St. Martin.
Geriville	.....	.....	.....	.....	90.3	32.4	14	nw.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Forfert.
Laghouat	.....	.....	30.07	763.7	92.1	33.4	27	e.	.....	.....	2	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.10	764.5	86.7	30.4	46	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia	.....	.....	30.07	763.8	52.3	11.3	85	calm	0	0	.....	.....	10 s	.....	.....	0.045	1.2	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.79	756.6	29.88	758.9	55.0	12.8	97	ese.	4	1.8	.....	.....	10	.....	.....	0	0	thnd'r&l'tng	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.24	742.7	29.78	756.3	62.6	17.0	95	e.	.....	.....	2	.....	10	.....	.....	0.173	4.4	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.4	29.72	754.9	49.3	9.6	40	e.	6.3	2.8	.....	.....	10	.....	.....	1.232	31.3	.....	Dr. Wierzbiski
Eperies	28.82	732.1	29.68	753.9	58.6	14.8	74	n.	.....	.....	1	.....	10 ks	.....	.....	1.453	36.9	.....	Julius Mikolik.
Gratz	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Andreas Rospini.
Hermannstadt	28.34	719.8	29.73	755.1	63.3	17.4	72	nw.	.....	.....	5	.....	10	.....	.....	0.043	1.1	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.39	721.2	29.69	754.2	62.8	17.1	70	calm	.....	.....	0	.....	5	.....	.....	0.039	1.0	fair	The Staff.
Lemberg	28.57	725.7	29.56	750.7	45.9	7.7	93	e.	.....	.....	4	.....	10	.....	.....	1.118	28.4	.....	Dr. T. Stanecki.
Pola	29.67	753.5	29.78	756.2	74.5	23.6	75	ssw.	.....	.....	2	.....	10	.....	.....	0.098	2.5	raining	I. R.Hydrographic Office.
Szathmar	29.15	740.3	29.59	751.6	68.0	20.0	58	w.	.....	.....	6	.....	4	.....	.....	0.071	1.8	.....	Joseph Midlinszky, S. J
Szegedin	29.50	749.2	29.77	756.1	67.6	19.8	67	nw.	.....	.....	2	.....	8	.....	.....	0.118	3.0	.....	Karl Stoczel.
Trieste	29.72	754.9	29.82	757.4	72.1	22.3	77	w.	.....	.....	1	.....	10	.....	.....	0.465	11.8	.....	Royal Academy.
Vienna	29.04	737.5	29.73	755.2	66.7	19.3	58	w.	.....	.....	3	.....	3	.....	.....	0.024	0.6	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.67	753.6	29.77	756.1	52.5	11.4	75	nw.	8	3.6	.....	.....	7	.....	.....	0.045	1.2	d. clouds	W. Boswell.
Armagh, Observatory	29.59	751.6	29.82	757.4	54.8	12.7	90	ene.	1	0.4	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.76	755.9	57.0	13.9	75	e.	4	1.8	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.22	742.2	29.75	755.6	55.6	13.1	76	ene.	3	1.3	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	29.35	745.5	29.75	755.6	55.7	13.2	75	ne.	.....	.....	2	.....	10	.....	.....	0	0	overcast	McLandsborough&Preston.
Bridgetown, Barbadoes	29.88	758.9	29.91	759.7	85.0	29.4	68	se.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	Corpl. W. I. Oull, A. H.O
Cardington	29.62	752.3	29.73	755.1	57.4	14.1	81	n.	.....	.....	0.4	.....	9	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.52	749.8	29.69	754.1	57.5	14.2	80	nw.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.53	750.0	29.76	755.9	60.8	16.0	80	n.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.69	703.3	29.91	759.7	81.5	27.5	61	e.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.57	751.1	29.79	756.7	88.0	31.1	76	w.	.....	.....	1	.....	3	.....	.....	.....	.....	thunder	J. W. Smith.
Galway, Queen's College	29.72	754.9	29.75	755.6	58	14.4	88	ne.	.....	.....	1	.....	3	.....	.....	0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762.7	30.08	764.0	77.5	25.3	89	w.	.....	.....	5	.....	0	.....	.....	.....	.....	blue sky	Sgt. F. Norris, A. H.O.
Glasgow, Observatory	29.58	751.3	29.78	756.4	56.2	13.4	63	w.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.53	750.0	29.70	754.4	58.4	14.7	76	n.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.46	748.3	29.76	755.9	65.0	18.3	73	e.	.....	.....	1	.....	4	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.68	753.9	29.72	754.9	59.0	15.0	70	n.	7	3.1	.....	.....	9	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.48	748.8	29.73	755.1	57.2	14.0	77	n.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.98	761.5	80.6	27.0	64	sw.	.....	.....	3	.....	4	.....	.....	0	0	d. clouds	Corpl. Keene, A. H. O.
Nassau, Bahamas	29.86	758.4	29.90	759.4	82.8	28.2	73	s.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.24	742.7	29.76	755.9	55.4	13.0	90	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	fogky	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.50	749.3	29.73	755.1	58.1	14.5	76	ne.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.66	753.4	29.73	755.1	60.8	16.0	85	n.	.....	.....	2	.....	2	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.71	754.0	29.81	757.2	48	8.9	74	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.80	756.9	29.86	758.4	80.0	26.7	60	sw.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.52	749.8	29.80	756.9	56.9	13.8	76	ne.	.....	.....	1	.....	6	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.74	755.4	29.77	756.1	57.6	14.2	68	ene.	.....	.....	2	.....	3	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.76	755.9	56.8	13.8	70	ne.	1	0.4	.....	.....	10	.....	.....	.....	.....	overcast	W. C. Carlisle.
Strathfield Turgiss	.....	.....	.....	.....	59.4	15.2	84	n.	.....	.....	1.1	.....	5	.....	.....	.....	.....	d. clouds	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	29.75	755.6	29.84	757.9	68	20.0	69	w.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.76	755.9	29.78	756.4	60.7	15.9	81	n	3	1.3	.....	.....	7	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.07	763.8	77.0	25.0	73	sw.	5.0	2.2	.....	1 c	1 n	.....	sw.	0	0	clear	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	30.22	767.6	30.26	768.6	45	7.2	92	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	Hon. J. Ferguson
Charlottetown, P. E. Island	30.14	765.5	30.18	766.6	53	11.7	91	nw.	6	2.7	.....	.....	10 u	.....	sw.	0.080	2.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.19	766.8	30.25	768.3	46	7.8	96	nw.	3	1.3	.....	.....	fg	.....	.....	0	0	foggy	G. A. Blair.
Cornwall, Ontario	29.93	760.2	30.19	766.8	48.2	9.0	91	e.	.....	.....	1	2 c	0	.....	.....	0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.19	766.8	30.24	768.1	46.5	8.1	.....	nw.	.....	.....	2	.....	.....	.....	.....	0	0	overcast	H. A. Johnson.
Edmonton, N. W. T.	27.96	710.2	.....	.....	32	0.0	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.21	767.3	30.23	767.8	39	3.9	96	nw.	5	2.2	.....	0	2 k	.....	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.60	751.8	30.40	773.7	38	3.3	92	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	James Stewart.
Fredericton, N. B.	30.20	767.1	30.27	768.8	49.0	9.4	86	nw.	1.0	0.4	.....	0	0	.....	.....	0	0	blue sky	Prof.Thos. Harrison
Grand Manan, N. B.	30.20	767.1	30.25	768.3	51	10.6	86	n.	6	2.7	.....	5 k	fg.	nw.	.....	0	0	light fog	J. Chipman Seeley
Granton, Ontario	29.01	736.8	30.09	764.3	59.0	15.0	88	e.	2	0.9	.....	8 cs	0	e.	.....	0.12	3.0	d. clouds	Jas. Grant.
Halifax, N. S*	30.07	763.8	30.20	767.1	52	11.1	93	nw.	5	2.2	.....	7 k	0	n.	.....	inap.	inap.	cloudy	A. Allison.
Hamilton, Ontario	29.66	753.4	30.04	763.0	60.2	15.7	90	ne.	.....	.....	1	2 c	0	ne.	.....	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.85	758.2	30.19	766.8	57	13.9	93	ne.	1	0.4	.....	0	0	.....	.....	0	0	hazy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.09	764.3	30.13	765.3	58.3	14.6	92	nw.	.....	.....	3	8 k	0	nw.	.....	0	0	d. clouds	C. H. Rigby.
London, Ontario	29.22	742.2	30.11	764.8	59.7	15.4	94	calm	0	0	.....	0	8 n	.....	.....	0.01	0.3	d. clouds	E. B. Reed.
Medicine Hat	28.02	711.7	30.38	771.6	36	2.2	61	calm	0	0	.....	0	0	.....	.....	0	0	blue sky	John Ewart.
Montreal, Quebec*	30.02	762.5	30.23	767.8	51	10.6	83	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.98	761.5	30.22	767.6	57.2	14.0	85	ene.	.....	.....	.....	0	0	.....	.....	0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.45	748.0	30.14	765.5	59	15.0	84	e.	10	4.5	.....	2 k	0	w.	.....	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.44	747.8	30.17	766.3	58.7	14.8	87	se.	.....	.....	1	2 c	0	se.	.....	0	0	blue sky	Wm. O'Connor,M.A.
Port Dover, Ontario	29.41	747.0	30.09	764.3	61	16.1	88	calm	0	0	.....	5 c	0	sw.	.....	0	0	fair	H Morgan.
Port Stanley, Ontario	29.42	747.3	30.05	763.3	62	16.7	81	e.	12	5.4	.....	.....	10 k	.....	s.	0.32	8.1	cloudy	M. Payne.
Que Appelle, N. W. T.	28.19	716.0	30.55	776.0	33	0.6	96	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.88	758.9	30.24	768.1	51	10.6	86	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.75	755.6	30.22	767.6	50	10.0	93	calm	0	0	.....	7 cs	fg.	sw.	.....	0	0	fair	W. H. McIntyre.
St. Andrews, N. B.	30.19	766.8	30.24	768.1	50	10.0	81	n.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	
St. John, N. B	30.10	764.5	30.24	768.1	52.0	11.1	93	w.	4	1.8	.....	10 k	.....	.....	.....	0	0	overcast	G. Hutchinson.
Saint John's, N. F.	29.82?	757.4?	30.06?	763.5?	50	10.0	86	ne.	.....	.....	.....	0	5 ks	.....	.....	0.02	0.5	fair	The Commandant.
Saugeen, Ontario*	29.38	746.2	30.08	764.0	57	13.9	93	e.	6	2.7	.....	7 k	0	.....	.....	inap.	inap.	cloudy	C. J. Macgregor, M. A
Stratford, Ontario	28.83	732.3	30.09	764.3	57.9	14.4	94	se.	5.0	2.2	.....	0	5 s	.....	.....	0.026	0.7	d. clouds	The Commandant.
St. Pierre, N. F.	.....	.....	30.04	763.0	51.1	10.6	.....	ne.	.....	.....	2	.....	.....	.....	.....	0	0	.....	Miss Grace Pope
S. W. Point, Anticosti	30.16	766.1	30.19	766.8	51	10.6	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	

STATIONS.	Barometer. Corrected for instrumental error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Sydney, C. B.	30.09	764.3	30.15	765.8	53	11.7	90	calm	0	0			10 n			0.05	1.3	light rain	T. C. Hill, C. E.
Toronto, Ontario*	29.77	756.1	30.14	765.5	60	15.6	90	e.	6	2.7		5 cs	hz	sw.		0	0	fair	Magnetic Observatory.
Woodstock, Ontario	29.08	738.6	30.13	765.3	59.8	15.4	93	e.	3.5	1.6		0	9 ks			0.07	1.8	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.17	766.3	30.23	767.8	48	8.9	89	ne.	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.08	764.0	30.11	764.8	65.5	18.6	89	w.	7.4	3.3			10 s			0	0	cloudy	I Garfelt.
Springbok Fontein	27.89	708.4			74	23.3	40									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.96	761.0	30.04	763.0	55.4	13.0	90	e.			1	10						cloudy	Samuel Redolez.
Iquique	30.00	761.9	30.02	762.6	59.0	15.0	75	sw.			3							cloudy	Rafael Moreno.
Niebla	29.65	753.1	29.76	755.8	48.2	9.0	95	e.			2		5		e.	0.291	7.4	raining	Federico Kühling.
Punta Caldera	29.97	761.1	30.05	763.3	55.4	13.0	86	ne.			1	8 c		ne.				fair	Manuel Tobar.
Punta Corona	29.89	759.3	30.08	764.1				n.			3		10			0	0	cloudy	Ignacio Ayala.
Valparaiso	29.93	760.1	30.07	763.7	55.8	13.2	86	sw.			0							cloudy	Paez-i-Ampuero.
Chinese (Sub-series).																			
Sung-shu-chwang	25.42	645.7																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.13	765.2	30.15	765.8	66.9	19.4	79	e.	2.9	1.3			10			0	0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.69	754.0	29.73	755.2	52.0	11.1	72	sse.	13	6			8						Oversergent Fischer.
Fanoe	29.63	752.6	29.65	753.1	52.7	11.5	81	e.	9	4			8						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.86	758.5	29.91	759.6	48.2	9.0	80	s.	9	4			2						A. O. Thorlacius.
Thorshavn	29.89	759.3	29.92	759.9	43.5	6.4	64	n.	13	6			3						Overloerer Bergh.
Vestervig	29.58	751.3	29.67	753.6	52.7	11.5	89	se.	4	2			2						Loerer Oesterbol.
Egyptian.																			
Cairo	29.78	756.3			95.4	35.2		ne.	7.6	3.4			1 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.36	745.7	29.99	761.8	63.0	17.2	100	nw.			4		k		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.40	746.7	29.91	759.7	60.4	15.8	87	w.			1		k		e.	0.803	20.4		M. Nicot, Director.
Avignon, Normal School	29.80	756.9	29.88	758.9	75.9	24.4	65	s.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.07	738.3	29.61	752.1	61.9	16.6	78	var.			6		8 kn		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.39	746.6	29.65	753.1	61.5	16.4	83	n.			1		8		nw.	0.331	8.4	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.78	730.9	29.66	753.3	64.4	18	90	sw.			8					0.031	0.8		M. Gobin, Director.
Bordeaux, Observatory	29.63	752.6	29.89	759.1	68.9	20.5	79	sw.			2		8		w.	0.114	2.9	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.25	743.0	29.79	756.7	64.4	18	73	w.			2		k		w.	0.413	10.5		M. Malet, Director.
Brest, Naval Observatory	29.59	751.5	29.83	757.7	64.8	18.2	86	w.			2		9		w.	0.394	10.0		M. de Kermarée, Dir.
Caen, Normal School	29.63	752.7	29.72	754.8	64.0	17.8	76	nw.			1		5		nw.	0.433	11.0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.21	741.8	29.52	749.7	60.8	16.0	87	s.			2		8			0.598	15.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.04	737.5	29.53	750.1	57.9	14.4	80	e.			1		10			0.91	23.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.50	724.0	29.81	757.2	69.1	20.6	57	w.			4		8			0.067	1.7		M. Alluard, Director.
Cluny, Normal School	28.92	734.6	29.74	755.4	70.0	21.1	46	sw.			8				sw.	0.331	8.4		M. de Villemontée, Dir.
Commercy, Normal School	28.71	729.1	29.54	750.3	58.6	14.8	91	s.			1		10	s.	s.	0.283	7.2	raining	Dr. Coulet, Director.
Gap, Normal School	27.42	696.5	29.93	760.2	57.2	14	79	s.			1		9 n			0.04	1.		M. Jarach, Director.
Gréasque, du Rhone	28.79	731.3	29.87	758.6	75.2	24.0	44	nw.			4		7		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.11	739.4	29.86	758.5	62.6	17	86	ese.			1		10 kn		w.	0.55	14.	raining	M. Ablard, Directoor
Guéret, Normal School	28.26	717.8	29.82	757.4	63.0	17.2	66	sw.			6		5 kn		sw.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.44	747.8	29.72	754.8	64.4	18	53	nw.			2		2		nw.	0.04	1.	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.40	746.7	30.03	762.7	72.3	22.4	87	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.2	29.80	756.8	64.0	17.8	82	w.			1		10	calm	nw.	0.012	0.3	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.77	730.8	29.80	756.8	68.4	20.2	61	ssw.			2		8 kn			0.346	8.8	very cloudy	M. André, Director
Mans, Normal School	29.48	748.7	29.78	756.3	66.0	18.9		w.			4		5 kn		nw.	0.909	23.1	cloudy	M. Richard Director
Marseille, Observatory	29.63	752.5	29.89	759.2	72.3	22.4	64	wsw.			1–2		6		w.	0	0		M. Stephan, Director.
Montlouis	24.95	633.8	29.80	756.8	60.8	16.0	20	w.	9.4	4.2			5	w.		0.213	5.4		M. Cave for Dr. Fines.
Montpellier, Normal School	29.73	755.1	29.84	757.8	80.2	26.8	66	wnw.			4		0			0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.67	753.5	29.83	757.6	61.5	16.4	91	w.			0–2		10 n			0.972	24.7	rainy	M. Larocque, Director.
Perpignan, Observatory	29.78	756.5	29.89	759.2	81.5	27.5	41	nw.	20.6	9.2			9		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.4			39.6	4.2		nw.			2		10		nw.	0.276	7.0	rain & fog	M. Vausseuat, Director.
Privas, Normal School	28.81	731.7	29.84	758.0	67.3	19.6	72	s.			1		10 kn	s.	s.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.97	634.3			47.7	8.7	93	w.			6		10			0.130	3.3		M. Alluard.
Rochefort, Naval Obs'y	29.81	757.2	29.84	758.0	68.0	20.0	71	wsw.			3		8		wsw.	0.051	1.3	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.63	752.4	29.84	757.8	61.9	16.6	100	sw.			1		10		sw.	0.874	22.2	raining	M. Brotier, Director.
Rodez, Normal School	27.80	706.0	29.92	759.9	55.8	13.2	86	nw.			1		10		ne.	0.63	16.	raining	M. Seger, Director.
Rouen, Normal School	29.64	752.9	29.69	754.1	62.2	16.8	73	nw.			1		5	w.		0.634	16.1	cloudy	M. Moullot, Dir.
Saint Maur, Observatory	29.50	749.4	29.67	753.6	62.6	17.0	76	nw.			2		4		wnw.	0.606	15.4		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	73.6	23.1	56	w.			6		8	nw.		0	0	very cloudy	M. Baillard, Director.
Tours	29.60	751.9	29.78	756.4	65.5	18.6	66	wsw.			4		8		w.	0.717	18.2	very cloudy	M. de Tastes.
Versailles, Observatory	29.21	741.8	29.70	754.3	60.4	15.8	81	n.			1		8			0.508	12.9	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.85	758.3	30.00	762.1	69.4	20.8	78	nw.	15.9	7.1			10 k		w.	0.063	1.6	covered	M. Cartier, Director.
German.																			
Ansbach	28.25	717.6	29.67	753.6	59.0	15.0	84	sw.			2		10	sw.		0	0		Prof. Jnedt.
Bamberg	28.80	733.1	29.70	754.3	63.1	17.3	66	nw.			2		5 k		nw.	0.327	8.3	raining	Prof. Dr. Hoh.
Berlin	29.58	751.2	29.72	754.8	54.0	12.2	76	se.			2		7			0.067	1.7		Dr. Lensch.
Breslau	29.22	742.3	29.75	755.6	48.7	9.3	89	ese.			2		10			0.394	10.0	foggy	Royal University Obs'y.
Carlsruhe	29.16	740.7	29.61	752.0	59.0	15.0	91	se.			1		10	sw.		0.693	17.6	heavy rain	Albert Senz.
Cassel	28.90	734.1	29.61	752.2	60.4	15.8	76	sw.			2		8	sw.		0.673	17.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.26	743.1	29.61	752.1	59.0	15.0	91	se.			1		10			0.303	7.7		Physical Society.
Friedrichshafen	28.30	718.8	29.68	753.8	61.0	16.1	84	ne.			2		6	w		0.406	10.3		Wilhelm, Chief Tel.
Hamburg	29.57	751.1	29.66	753.4	54.9	12.7	81	se.			4		10			0	0	hazy	E. Preiler.
Kiel	29.65	753.0	29.66	753.4	55.4	13.0	70	se.			2		9			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.26	743.2	29.67	753.7	59.0	15.0	86	ene.			1		8	se.		0.579	14.7		H. Leppig, Asst.
Magdeburg	29.48	748.7	29.67	753.5	54.5	12.5	91	ese.			2		10	e.		0.291	7.4		Weather Observatory.
Memel	29.79	756.7	29.84	757.9	49.8	9.9	67	n.			3		10 k						Issermann.
Munich	27.90	708.7	29.74	755.5	64.2	17.9	58	calm			0		10	w.		0.189	4.8		Central Station.
Neufahrwasser	29.81	757.1	29.82	757.5	53.1	11.7	62	e.			1		7			0	0		A. Lothes.
Neustadt, Palatinate	29.06	738.1	29.58	751.3	58.5	14.7	92	ese.			1		10					raining	Dicknether.
Stuttgart	28.69	728.7	29.56	750.9	58.1	14.5	86	e.			1		10			0.276	7.0		Prof. Dr. Schoder.
Wustrow	29.69	754.0	29.71	754.5	54.5	12.5	54	ese.			3		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.58	751.4	29.95	760.7	80.2	26.8		sw.			2.5		1			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.77	756.2	29.82	757.5	85.8	29.9	69	wsw.	23.0	10.3			0			0	0	blue sky	
Deesa	29.26	743.2	29.72	754.9	93.6	34.2	42	nne.	6.0	2.7			6	n.		0	0	d. clouds	
Bombay	29.81	757.2	29.85	758.2	79.8	26.6	76	wnw.	7.0	3.1			10		wnw.	0	0	overcast	
Poona, Yarrowda	27.99	711.0	29.86	758.6	73.8	23.2	75	nw.	19.0	8.5			9			0	0	d. clouds	
Trichinopoly	29.56	750.9	29.84	757.8	91.3	32.9	48	nw.	0.1	0.04			8			0	0	d. clouds	
Bellary	28.31	719.0	29.75	755.6	88.0	31.1	30	w.	10.0	4.5			0			0	0	blue sky	
Belgaum	27.32	694.0	29.88	759.1	71.1	21.7	76	wsw.	11.0	4.9			3	e.	w.	0	0	d. clouds	
Lahore	28.96	735.5	29.68	753.9	91.1	32.8	44	calm	0	0			0			0	0	blue sky	
Roorkee	28.78	731.0	29.66	753.3	88.8	31.6	60	calm	0	0			0			0	0		
Agra	29.14	740.2	29.68	754.0	97.9	36.6	27	nw.	2.0	0.9			1		nw.	0	0	d. clouds	
Nagpur	28.68	728.4	29.71	754.6	84.9	29.4	69	calm	0	0			5		w.	0.34	8.6	d. clouds	
Jubbulpore	28.39	721.2	29.73	755.2	85.6	29.8	64	calm	0	0			7			0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Lucknow	29.31	744.5	29.68	753.9	89.1	31.7	65	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.39	746.6	29.70	754.4	86.2	30.1	78	calm	0	0	.....	.....	1	.....	.....	0	0	d. clouds	
Patna	29.50	749.4	29.69	754.0	88.4	31.3	69	calm	3.1	1.4	.....	.....	4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.71	703.9	29.70	754.4	81.5	27.5	72	ese.	3.9	1.7	.....	.....	9	wnw.	ese.	0	0	d. clouds	
Cuttack	29.64	752.9	29.72	754.9	87.1	30.6	74	calm	0	0	.....	.....	8	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.70	754.5	29.72	755.0	85.3	29.6	76	s.	3.0	1.3	.....	.....	9	.....	s.	0	0	d. clouds	
Dhubri	29.60	752.0	29.72	755.0	78.5	25.8	95	calm	1.0	0.4	.....	.....	10	.....	wsw.	0.47	11.9	gloomy	
Chittagong	29.68	754.0	29.77	756.2	83.5	28.6	83	calm	3.2	1.4	.....	.....	7	.....	.....	0	0	d. clouds	
Sibsagar	29.38	746.3	29.72	754.8	84.6	29.2	83	sw.	2.0	0.9	.....	.....	5	w.	w.	0.02	0.5	d. clouds	
Jeypore	28.31	719.1	29.71	754.7	93.6	34.2	32	nnw.	3.6	1.6	.....	.....	0	.....	.....	0	0	blue sky	
Zanzibar	30.03	762.7	.....	.....	85.4	29.7	48	ssw.	6.7	3.0	.....	.....	3	ssw.	ne.	0	0	d. clouds	
ITALIAN.																			
Udine	29.37	746.1	29.77	756.2	69.8	21.0	75	calm	0	0	.....	.....	10	.....	.....	0.732	18.6	.....	Prof. Giovanni Olodig.
Milan	29.29	743.9	29.79	756.7	69.8	21.0	68	se.	3.1	1.4	.....	.....	9	sw.	.....	0	0	.....	Prof. G. V. Schiapparelli
Padua	29.71	754.5	29.81	757.2	69.1	20.6	70	sw.	0.7	0.3	.....	.....	9	.....	.....	0.075	1.9	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.90	734.0	29.78	756.5	65.8	18.8	90	nnw.	3.8	1.7	.....	.....	9	ne.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.59	751.5	29.77	756.2	70.2	21.2	70	e.	9.8	4.4	.....	.....	10	se.	.....	0.008	0.2	.....	Prof. G. M. Garibaldi.
Mondovi	27.91	708.9	29.78	756.4	64.9	18.3	75	n.	.....	.....	4	.....	7	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.75	755.6	29.80	756.8	77.5	25.3	50	sw.	13.0	5.8	.....	.....	10	nw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.58	751.2	29.82	757.5	77.9	25.5	45	sw.	.....	.....	6	.....	9	sw.	.....	0	0	.....	Prof. Costantino Pittei.
Leghorn	29.70	754.4	29.78	756.5	75.0	23.9	61	s.	9.4	4.2	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.72	754.8	29.89	759.1	78.8	26.0	56	ssw.	11.9	5.3	.....	.....	7	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.69	754.0	29.93	760.2	80.4	26.9	27	w.	8.7	3.9	.....	.....	4	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.97	761.2	75.9	24.4	66	wsw.	3.1	1.4	.....	.....	3	sw.	.....	0	0	.....	Prof. D. Conti.*
Cagliari	29.73	755.2	29.92	760.0	79.0	26.1	63	s.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.72	754.9	29.96	761.0	82.0	27.8	50	sw.	16.8	7.5	.....	.....	2	.....	.....	0	0	.....	Prof. G. Caccialore.
Syracuse	29.91	759.6	29.95	760.7	83.8	28.8	69	wsw.	3.1	1.4	.....	.....	4	w.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R.	29.43	747.4	29.94	760.4	71.1	21.7	83	wsw.	3.1	1.4	.....	.....	9	ssw.	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.92	759.9	29.96	760.9	62.6	17.0	97	calm	.....	.....	0	.....	10ks;s	.....	w.	0.484	12.3	cloudy	H. Hattori.
Awomori	29.88	758.9	29.91	759.7	57.1	13.9	92	sw.	3.8	1.7	.....	0	1 ks	.....	w.	0.189	4.8	clear	K. Ogawa
Hamamatsu	29.84	757.9	29.94	760.4	66.8	19.3	92	ne.	.....	.....	2	1 ck	0	.....	.....	0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.00	762.0	30.01	762.3	65.1	18.4	82	nw.	.....	.....	2	0	2 s	.....	.....	0	0	clear	G. Miyanomaza.
Kanazawa	29.88	758.8	29.98	761.4	65.3	18.5	93	calm	0	0	.....	1 ck	4ck;ks	.....	.....	0.016	0.4	fair	S. Endo.
Kioto	29.83	757.6	30.00	762.0	69.5	20.8	71	nnw.	3.9	1.7	.....	0	4s;ck	.....	.....	0	0	fair	M. Tojima.
Kochi	29.96	760.9	29.98	761.4	69.8	21.0	71	nne.	12.0	5.4	.....	0	7 cs;s	.....	.....	0	0	cloudy	K. Kusunose.
Miasaka	29.98	761.6	30.01	762.3	67.7	19.8	84	wnw.	.....	.....	2	0	7ks;s	.....	e.	0	0	cloudy	K. Masusaki
Miyako	29.85	758.2	29.96	761.0	60.6	15.9	96	w.	0.4	0.2	.....	0	0	.....	.....	0.008	0.2	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.86	758.4	30.06	763.5	64.8	18.2	55	ne.	1.8	0.8	.....	0	2 s	.....	.....	0	0	clear	S. Takehayasi
Niigata	29.93	760.2	29.97	761.2	69.3	20.7	84	sw.	1.9	0.8	.....	.....	10 s	.....	sw.	0.020	0.5	overcast	Satoo & Tomikawa.
Nobiru	29.92	760.0	29.94	760.4	67.8	19.9	92	s.	3.7	1.6	.....	.....	10s;ks	.....	.....	0	0	cloudy	Yoslino & Midzushina.
Numazu	29.91	759.7	29.94	760.6	65.4	18.6	92	ese.	.....	.....	2	0	3 s	.....	.....	0	0	clear	R. Kaneda.
Osaka	29.97	761.3	29.99	761.7	67.8	19.9	82	n.	4.0	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	H. Omura.
Sakai	30.03	762.8	30.04	763.0	50.8	13.8	82	nw.	.....	.....	2	0	0	.....	.....	0.106	2.7	clear	Yamawchi & Sakamoto.
Shimonoseki	29.92	759.9	30.06	763.6	63.8	17.7	64	calm	.....	.....	0	0	4 s	.....	nw.	0	0	fair	S. Sakazo.
Tokei Obs'y, Yeddo	29.87	758.8	29.95	760.7	67.2	19.6	95	n.	4.4	2.0	.....	0	2 s	.....	.....	0.079	1.9	clear	The Staff.
Wakayama	29.92	760.0	29.97	761.3	71.7	22.1	70	e.	7.9	3.5	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	73.8	23.2	60	ese.	22.0	9.8	.....	0	1 k	.....	.....	0.16	4.1	clear	The Staff.
MEXICAN.																			
Leon	24.26	616.2	29.94	760.5	58.6	14.8	77	ese.	0.9	0.4	.....	.....	10ck;s	.....	.....	0.019	0.5	covered	Prof. M. Leal.
Mazatlan	29.51	749.5	29.76	756.0	78.5	25.8	89	ssw.	1.6	0.8	.....	.....	10 n	.....	.....	0.118	3.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	80	26.7	97	ne.	.....	.....	1	0	2 k	.....	s.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.62	752.4	29.62	752.4	61.7	16.5	.....	ssw.	.....	.....	3	.....	.....	.....	.....	0.161	4.1	.....	
Groningen	29.54	750.4	29.60	751.8	58.8	14.9	.....	ese.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	29.60	751.7	29.60	751.7	58.8	14.9	.....	s.	.....	.....	1	.....	.....	.....	.....	0.083	2.1	.....	
Hellevoetsluis	29.62	752.3	29.62	752.3	61.7	16.5	85	calm	.....	.....	0	.....	.....	.....	.....	0	0	.....	
Utrecht	29.57	751.1	29.62	752.3	57.7	14.3	89	sw.	.....	.....	1	.....	8	.....	.....	0.008	0.2	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.95	760.8	.....	.....	81.5	27.5	84	nne.	0	0	.....	.....	6	.....	.....	0	0	.....	Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.53	750.1	29.60	751.7	44.6	7.0	85	s.	6.3	2.8	.....	.....	10	.....	.....	0.827	21.0	raining	
Brono	29.40	746.8	29.44	747.8	44.2	6.8	85	sw.	.....	.....	2	.....	10	.....	.....	0.449	11.4	.....	
Christiania	29.43	747.6	29.58	751.3	52.0	11.1	55	sw.	9	4	.....	.....	10	.....	.....	0	0	.....	
Gjæsvær	29.53	750.0	29.55	750.6	39.0	3.9	.....	ssw.	.....	.....	6	.....	1	.....	.....	.....	.....	.....	
Lodingen	29.38	746.3	29.43	747.5	46.0	8.1	56	s.	.....	.....	6	.....	10	.....	.....	0.571	14.5	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	72.5	22.5	91	sw.	23.0	10.3	.....	.....	10	.....	.....	0.118	3.0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santos.
Funchal, Madeira	30.17	766.2	30.25	768.4	74.7	23.7	63	sw.	6.3	2.8	.....	.....	1	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.2	30.15	765.7	67.0	19.8	98	sw.	8.1	3.6	.....	.....	10	.....	.....	0.197	5.0	.....	The Staff.
Ponta Delgada, Azores	29.87	758.8	29.95	760.6	74.8	23.8	85	ssw.	21.7	9.7	.....	.....	3	ese.	.....	0.205	5.2	.....	
Saint Paul de Loando	29.81	757.2	30.02	762.4	70.3	21.3	99	wsw.	.....	.....	2	.....	7	.....	.....	0	0	.....	
San Salvador, Congo	28.13	714.5	29.96	761.0	79.5	26.5	59	calm	0	0	.....	.....	9	.....	.....	.....	.....	.....	
Serra da Estrella	25.42	645.6	30.11	764.8	54.5	12.5	98	w.	21.0	9.4	.....	.....	10	.....	.....	1.323	33.6	.....	
RUSSIAN.																			
Akmolinski	29.00	736.5	30.04	763.0	68.9	20.5	23	wnw.	2	1	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.45	748.1	29.47	748.6	34.5	1.4	69	ne.	18	8	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow
Astrakhan	30.04	762.9	29.94	760.5	80.6	27.0	73	wnw.	11	5	.....	0	2 k	.....	.....	0	0	.....	
Baku	30.00	761.9	29.93	760.1	81.1	27.3	32	w.	11	5	.....	0	1 s	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	30.03	762.7	29.98	761.5	75.4	24.1	66	n.	13	6	.....	0	0	.....	.....	0	0	.....	
Bieloserk	29.70	754.4	30.19	766.9	61.5	16.4	36	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y
Dorpat	28.78	731.1	29.25	742.9	41.7	5.4	86	w.	2	1	.....	.....	9 ks	.....	.....	0.055	1.4	.....	
Ekaterinburg	29.41	747.1	29.66	753.4	41.7	5.4	63	w.	11	5	.....	.....	10 ks	.....	.....	blank	blank	.....	Observatory.
Elissawetgrad	28.77	730.8	29.70	754.3	66.4	19.1	29	s.	27	12	.....	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Irkutsk	29.30	744.1	29.72	755.0	72.3	22.4	44	sw.	11	5	.....	.....	10 ks	.....	.....	0	0	.....	
Kasalinsk	28.03	727.3	30.23	770.4	37.0	3.1	95	calm	.....	.....	0	.....	9	.....	.....	0.091	2.3	.....	
Kasan	.....	.....	.....	.....	78.1	25.6	21	e.	.....	.....	.....	0	0	.....	.....	.....	.....	.....	
Kem	29.22	742.3	29.48	748.9	62.1	16.7	42	sw.	20	9	.....	0	3 k	.....	.....	0.220	5.6	.....	Observatory.
Kertch	29.54	750.2	29.59	751.5	39.9	4.4	51	ne.	31	14	.....	3 c	0	.....	.....	0.047	1.2	.....	
Kieff	29.89	759.2	29.91	759.8	73.0	22.8	60	s.	4	2	.....	0	4 k	.....	.....	0	0	.....	Lagorio & Sastyres.
Koslov	29.02	737.2	29.65	753.1	55.4	13.0	68	ne.	7	3	.....	.....	10ksn	.....	.....	0.185	4.7	.....	Observatory.
Libau	29.14	740.2	29.63	752.7	59.0	15.0	37	wsw.	31	14	.....	0	0	.....	.....	0	0	.....	
Lugan	29.77	750.1	29.79	759.7	48.9	9.4	46	w.	.....	.....	3	.....	10	.....	.....	0.008	0.2	.....	E. Quaas.
Moscow	29.59	751.0	29.79	759.6	73.9	23.3	28	sw.	22	10	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y.
Nikolaiev	29.66	738.0	29.83	750.1	44.1	6.7	64	sw	13	6	.....	.....	10 n	.....	.....	0.024	0.6	.....	Meteorological Obs'y
Nikolaievsk-on-the-Amoor	29.67	753.6	29.74	755.4	73.9	23.3	48	sw.	22	10	.....	cs	5 n	.....	.....	0	0	light clouds	Capt. Kurdakow.
Pekin, China	.....	.....	.....	.....	55.6	13.1	80	e.	22	10	.....	.....	9 n	.....	.....	.....	.....	.....	Iwanow.
Petro-Alexandrovsk	29.91	759.6	30.05	763.2	62.1	16.7	44	nw.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petrozavodsk	29.71	754.5	30.04	763.0	81.7	27.6	18	e.	1.1	0.5	.....	0	2 k	.....	.....	0	0	.....	
	29.16	740.6	29.30	745.7	35.8	2.1	94	nne.	22	10	.....	.....	10	.....	.....	0.276	7.0	.....	Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.26	743.3	29.76	756.0	45.3	7.4	55	ne.	9	4			10 s			0	0		
Pott	29 92	760.0	29.95	760.8	77.7	25.4	79	nw.	4	2		0	5 ks			0	0		
St. Petersburg	29.45	748.0	29.47	748.6	41.4	5.2	55	nnw.	16	7			10 n			0.181	4.6		Central Physical Obs'y.
Samarkand	27.64	702.0	30.02	762 5	73.6	23.1	38	e.	3.4	1.5		0	0			0	0		
Semipalatinsk	29.52	749.9	30.17	766.3	63.9	17.7	32	n.	4	2			0			0	0		Major Lasarew
Sevastopol	29.66	753.4	29.87	758 6	72.3	22.4	65	s.	27	12		0	3 ks			0	0		
Starol Bykhov	29.15	740.5	29.71	754.5	50.5	10.2	47	w.	13	6		8 ck	0			0.102	2.6	light clouds	
Tashkend Laboratory	28.41	721.6	30.01	762.2	77.4	25.2	42	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.57	725.6	29.93	760.2	74.5	23.6	45	nnw.	11	5		0	5 k			0	0		Physical Observatory.
Vernoe	27.57	700.3	30.03	762.8	62.4	16.9	52	calm	0	0		0	6 n			0	0		
Viatka	28.72	729 5	29.34	745.1	52.7	11.5	65	sw.	9	4			8			0.130	3.3		
Warsaw	29.36	745.8	29.78	756.5	51.3	10.7	49	ne.	7	3		6 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.87	758 7	30.16	766.0	48.2	9.0	75	wnw.	4	2			2			blank	blank		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.82	757 4	29.92	759.9	79.9	26.6	57	ssw.	15.4	6.9		2 c	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	29.98	761.5	30.04	763.0	76.3	24.6	52	nw.	4.5	2.0		2	6	se.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.13	689.0	30.02	762.5	68.9	20.5	68	sw	12.5	5.6			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.00	762.0	79.3	26.3	42	sw.	12.5	5.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.86	758.4	29.99	761.8	90.0	32.2	41	wsw.	3.1	1.4		1	2	e.		0	0	light clouds.	Olayo Diaz, Director.
Oviedo	29.20	741.6	30.00	761.9	70.7	21.5	75	e.	7.6	3.4		10 n	4 n	e.	e.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.13	739.8	30.00	761.9	71.4	21.9	75	sw.	9.4	4.2			7			0.827	21.0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.82	757.4	29.89	759.1	75.0	23.9	87	sse.	0.9	0.4		cs	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.2	29.95	760.6	80.0	26.7	87	sw.	8.8	3.9		0	1 ks			0.157	4.0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30 06	763.4	30.15	765.8	73.9	23.3	66	nw.	16.7	7.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.93	760.1	30.02	762.4	80.2	26.8	89	calm	0	0		3 cs	2 k	e.	e.	0	0		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.68	753.9	29.72	754.9	38.5	3.6	51	se.			2		0			0	0		
Umea	29.62	752.4	29.07	753.7	42.8	6.0	65	s.			4		8			0	0		
Hernosand	29.56	750.9	29.61	752.2	46.7	8.2	57	sw.			4		10			0	0		
Stockholm	29.53	750.1	29.71	754.6	45.0	7.2	66	sw.			2		10			0.016	0.4		
Wisby	29.73	755.1	29.79	756.6	47.5	8.6	58	w.			4		3			0	0		
Sub-series.																			
Upsala	29.60	751.7	29.68	753.9	40.5	4.7	95	ssw.	11.2	5.0			10		wsw.	0.075	1.9	raining	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.40	721.3	29.78	756.5	69.3	20.7	58	ssw.			4		7			0.307	7.8	cloudy	The Observatory.
Turkish.																			
Constantinople			29.91	759.7	76.1	24.5	62	sw.	12	5.5			2		sw.	0	0		The Observatory.
Valona			30.07?	763.7?	77.5	25.3		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	83.8	28.8	57	w.			1	2 cs		w.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.71	703 8			68	20.0	70	w.			0.5	4 cs	5 ks	w.	w.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.18	766.6	30.26	768.6	56	13.3	63	s.	2	0.9			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.44	747.8	30.10	764.5	58	14.4	93	e.	5	2.2			10 n			0.28	7.1	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	29.91	759 7	40	4.4	70	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.56	700 0	30.40	772.1	35	1.7	66	sw.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.77	730.7	29.94	760.5	66.0	18.9	87	se.	8	3.6			10 ks		se.	0.01	0.3	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.13	765.3	30.14	765 5	63	17.2	78	ne.	22	9.8		5 ck	5 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.78	756.4	29.97	761 2	70.0	21.1	77	ne.	3	1.3			10 s		sw.	0	0	cloudy	D. J. Young.
Baltimore, Maryland	30.11	764.8	30.10	766.1	62	16.7	87	ne.	10	4.5			10 s		e.	0	0	cloudy	Geo. W. Fisher.
Barnegat City, New Jersey	30.14	765.5	30.16	766.1	61.0	16.1	81	e.	28	12.5		5 ck	5 s	e.	e.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.06	763.5	30.08	764.0	46.9	8.3	90	w.	4	1.8		0	6 k		w.	0	0	fair	Geo. Chernick.
Bennett, Fort, Dakota	28.72	729.5	30.31	769.9	46.0	7.8	86	nw.	14	6.3			10 s		nw.	0.17	4.3	cloudy	A. Pritchard.
Benton, Fort, Montana	27.60	701.0	30.44	773.2	43	6.1	53	s.	3	1.3		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.58	725.9	30.38	771.6	40	4.4	82	n	7	3.1		0	0			0	0	clear	Cyrus Crammer.
Block Island, Rhode Island	30.19	766 8	30.22	767.6	58	14.4	74	ne.	23	10.3		4ck;cs	1 s		ne.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.02	762.5	50.3	10.2		se.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.11	764.8	30.26	768.6	47.0	8.3	100	nw.	3	1.3			fg.			0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.04	763.0	58.0	14.4	70	n.	8	3.0		0	0			0.07	1.8	clear	E. C. Imlay.
Buffalo, New York	29.39	746.5	30.12	765.0	59.4	15.2	73	e.	8	3.6		2 cs	sk.	sw.		0	0	clear	Wm. Finn.
Buford, Fort, Dakota	28.52	724.4	30.50	774.7	31	— 0.6	88	n.	2	0.9		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.55	750.6	29.95	760.7	53.6	12.0	63	s.	0	2.7		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.77	756.1	29.97	761.2	72.2	22.3	45	e.	8	3.6		0	sk.			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	70.0	21.1	90	ne.	25	11.1			10 ks		ne.	0	0	cloudy	A. A. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	64 0	17.8	87	ne.	17	7.6			10 s		n.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.23	742.4	29.91	759.7	75	23.9	43	calm			0	0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.84	757.9	29.86	758.4	75.0	23.9	94	ne	5	2.2		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.82	757.4	29.87	758.7	70.0	21.1	94	n.	8	3.6			10 s		n	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	29.99	761.7	63.0	17.2	92	ne.	5	2.2			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.12	739.6	29.93	760.2	63.0	17.2	90	calm	0	0			10 s			0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.31	617.5	30.17	766.3	38.7	3.7	25	n.	16	7.2			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.30	744.2	29.99	761.7	58.5	14.7	72	ne.	6	2.7		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	66	18.9	93	ne.	12	5.4			8 s;fg			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.34	745 2	29.98	761.5	61.0	16.1	87	e.	3	1.3			10 s			0.01	0.3	cloudy	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.02	762.5	62.5	16.9	69	s.	10	4.5			10 s		s.	0.10	2.5	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.16	740.7	30.00	762.0	64	17.8	75	nw.	2	0.9			10 s			0	0	cloudy	D. Cuthbertson
Concho, Fort, Texas	28.20	716 3	30.10	764.5	47.4	8.6	86	nw.	10	4.5		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T	27.29	693.2	30.41	772 4	29	— 1.7	59	e.	6	2.7		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.31	744.5	29.96	761.0	50	10.0	86	e.	10	4.5			10 s		e.	0.11	2.8	cloudy	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.96	761.0	41	5.0	63	sw.	2	0.9		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.50	723 9	30.25	768.3	41.5	5.3	48	ne.	2	0.9		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.72	653.3	30.28	769.1	41	5.0	86	ne.	6	2.7			10 s		ne.	0	0	cloudy	F. Des Willson
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	66	18.9	90	ne.	25	11.2			10 s		ne.	0	0	cloudy	T. S. Townsend.
Denver, Colorado	25.03	635.8	30.14	765 5	44.0	6.7	27	n.	3	1.3			10 s		nw.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.08	738.6	29.97	761.2	48	8.9	86	e.	9	4.0			10 n		e.	0.05	1.3	light rain	F. W. Conrad.
Detroit, Michigan																inap.	inap.		E. R. Brace.
Dodge City, Kansas	27.49	698.2	30.04	763.0	47	8.3	100	nw.	22	9.8			10 n		nw.	0.02	0.5	light rain	J. H. Bryce.
Dubuque, Iowa	29.32	744.7	30.02	762.5	46.3	7.9	80	n.	1	0.4		0	4 ks;s		sw.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.46	748 3	30.20	767.1	51.5	10.8	100	ne.	32	14.3			10 n		ne.	0.14	3 6	light rain	N. B. Conger.
Eastport, Maine	30.18	766.6	30.25	768.3	52.0	11.1	73	n.	2	0.9		0	sk.		n.	0	0	clear	D. C. Murray.
Elliott, Fort, Texas	27.33	694.2	30.02	762.5	53	11.7	44	n.	20	8.9			10 s		n.	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.40	670 5	30.05	763.3	51.0	10.6	74	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.34	745.2	30.00	763 5	63	17.2	68	s.	12	5.4		7 cs	0	w.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.43	747.5	30.09	764.3	58.0	14.4	93	n.	14	6.3		0	4 s		n.	0.19	4.1	fair	George Heathcote.
Galveston, Texas	29.94	760.5	29.98	761.5	67	19.4	45	ne.	14	6.3		0	hz.			0.01	0.3	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.36	745.7	30.02	762 5	56.0	13.3	93	ne.	6	2.7		4 ck	0	e.		0.02	0.5	fair	Wm. H. Fallon.
Grant, Fort, Arizona	25.26	641.6	29.86	758.4	51.9	11.1	58	n.	3	1.3		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.92	760.0	29.94	760.5	74.0	23.3	90	ne.	10	4.5		0	9 s		e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.15	664.2	30.32	770.1	50	10.0	41	ne.	4	1.8		0	0			0	0	clear	T. H. Jones.

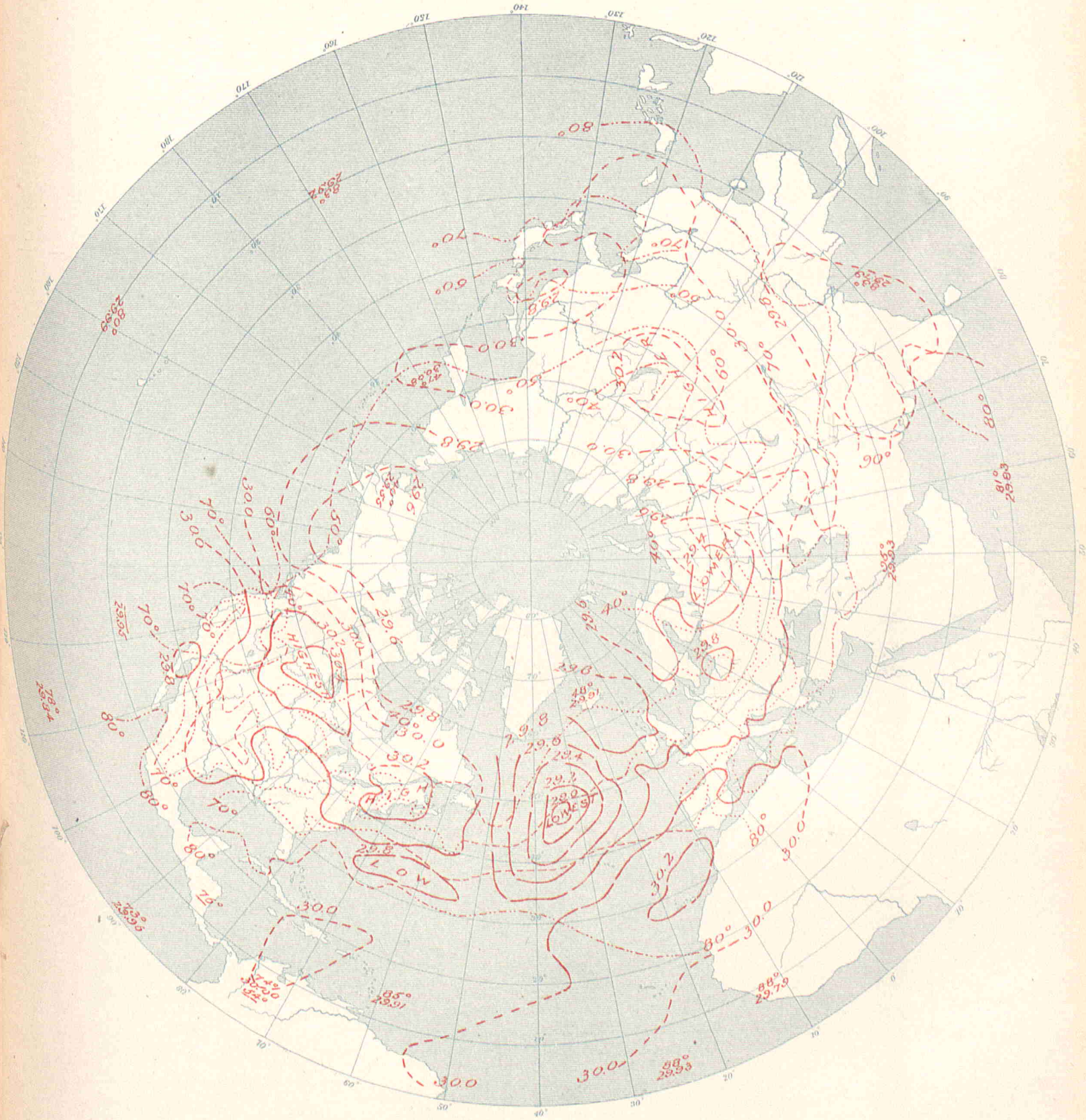
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.78	731.0	30.16	766.1	50.1	10.1	96	n.	12	5.4			10 n			0.67	17.2	light rain	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.86	758.4	52.0	11.1	80	ne.	3	1.3			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	64.0	17.8	58	n.	18	8.0		0	0			0	0	clear	I. A. Reed.
Jacksonville, Florida	29.81	757.2	29.85	758.2	70.0	21.1	95	n.	4	1.8		1 cs	5 s		n.	0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.26	743.2	29.91	759.7	50.0	10.0	86	ne.	1	0.4			10 n		ne.	0.08	2.0	light rain	F. Z. Gosewisch.
Key West, Florida	29.84	757.9	29.86	758.4	80	26.7	74	calm	0	0		4 k	0	s.		0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	71.5	21.9	87	ne.	24	10.7		0	9 ks		ne.	0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.94	735.1	29.96	761.0	63.8	17.7	95	nw.	2	0.9			10 n		sw.	0.02	0.5	light rain	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.04	763.0	40	4.4	89	n.	2	0.9			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.01	736.8	29.89	759.2	44	6.7	93	n.	12	5.4			10 n		ne.	0.34	8.6	light rain	T. S. Outram.
Lewiston, Idaho	29.41	747.0	30.24	768.1	45.0	7.2	60	calm	0	0		0	sk.			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.60	751.8	29.91	759.7	51	10.6	66	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.46	748.3	29.85	758.2	79	26.1	33	ne.	14	6.3		5 k	0	n.		0	0	fair	T. S. Collins.
Louisville, Kentucky	29.37	746.0	29.92	760.0	57	13.9	93	ne.	6	2.7			fg.			0	0	dense fog	L. M. Dey.
Lynchburg, Virginia	29.40	746.7	30.08	764.0	62	16.7	87	ne.	5	2.2			10 s		ne.	0	0	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.47	748.5	30.12	765.0	56.9	13.8	90	e.	6	2.7			10 s		se.	0.08	2.0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.92	760.0	29.93	760.2	73.0	22.8	90	n.	16	7.2			10 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.92	658.4	30.32	770.1	38	3.3	34	nw.	4	1.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.44	747.8	30.16	766.1	52.0	11.1	93	nw.	4	1.8			10 s			0.33	8.4	cloudy	J. Gilligan.
Memphis, Tennessee	29.58	751.3	29.92	760.0	55	12.8	69	s.	4	1.8		0	fg.			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.29	744.0	30.03	762.7	48	8.9	93	n.	9	4.0		0	1s;fg		n.	0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.84	757.9	29.88	758.9	68.6	20.3	78	n.	6	2.7		5 k	2 s	n	n.	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.66	753.4	29.89	759.2	68	20.0	90	ne.	2	0.9		2 cs	6 s		ne.	0.01	0.3	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.25	742.9	30.24	768.1	45	7.2	93	n.			2		10 s		n.	0.47	11.9	cloudy	H. Bessant.
Mt. Washington, N. H.	24.04	610.6	30.19	766.8	40.0	4.4	93	n.	10	4.5		0	3 k		n.	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.35	745.5	29.92	760.0	56.0	13.3	90	w.	2	0.9		4 ck	0	s.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765.0	30.23	767.8	49	9.4	93	ne.	7	3.1		6 c	0			0	0	fair	J. H. Sherman.
New London, Connecticut	30.22	767.6	30.27	768.8	53	11.7	86	nw.	2	0.9		6 c	hz.			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.82	757.4	29.87	758.7	70.0	21.1	53	ne.	11	4.9		2 ck	0	w.		0.02	0.5	clear	M. Herman.
New York, New York	30.04	763.0	30.21	767.3	56	13.3	86	ne.	14	6.3			10s;fg			0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	29.97	761.2	30.00	762.0	69.4	20.8	91	ne.	6	2.7		0	5 k		e.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.23	691.6	30.11	764.8	45.6	7.6	88	nw.	20	8.9			10 n			0.05	1.3	light rain	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	44.0	6.7	93	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.87	733.3	30.04	763.0	44.5	6.9	88	n.	4	1.8			10 n		n.	0.49	12.4	light rain	A. Pollak.
Oogkamie, Alaska																			P. H. Ray.
Oswego, New York	29.86	758.4	30.18	766.6	58.5	14.7	84	se.	4	1.8		hz.	hz.			0	0	dense haze	J. G. Linsley.
Palestine, Texas	29.49	749.0	30.04	763.0	50.0	10.0	77	nw.	3	1.3		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.83	757.7	29.86	758.4	70.8	21.6	92	n.	6	2.7			10 s		w.	inap.	inap.	cloudy	M. McGauran.
Philadelphia, Pa	30.09	764.3	30.19	766.8	58	14.4	90	ne.	12	5.4		7cs;ck	0	w.		0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	17.89	454.4	29.87	758.7	13	—10.6	100	ne.	13	5.8			fg.		ne.	0	0	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.28	743.7	30.07	763.8	63.3	17.4	56	calm	0	0		9 cs	0	w.		inap.	inap.	cloudy	G. O. Schaeffer.
Poplar River, Montana					33	0.6	41	w.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.34	715.2	30.02	762.5	61.0	16.1	87	e	4	1.8			10 s			0.10	2.5	cloudy	M. H. Perry
Portland, Maine	30.22	767.6	30.27	768.8	53.0	11.7	72	nw.	2	0.9		0	hz.			0	0	dense haze	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	58.2	14.6	57	n.	6	2.7		0	sk.			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.87	631.7	29.97	761.2	42	5.6	62	w.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.20	767.1	30.23	767.8	58	14.4	74	ne.	6	2.7		1 c	1 k	w.	ne.	0	0	clear	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.56	750.8	29.91	759.7	72	22.2	26	n.	9	4.0		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGaun.
Roseburg, Oregon	29.46	748.3	30.01	762.2	51.3	10.7	81	ne.	1	0.4		0	sk.			0	0	dense smoke	J. J. Naury.
Sacramento, California	29.81	757.2	29.88	758.9	71.0	21.7	55	n.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.29	744.0	29.90	759.4	57.7	14.3	60	s.	7	3.1		10 cs	0			0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.52	749.8	29.55	750.6	40	4.4	89	se.	33	14.8			10 s		se.	0.04	1.0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.24	742.7	30.09	764.3	40.0	9.4	96	nw.	1	0.4			10 n			0.33	8.4	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.53	750.0	30.40	772.1	37	2.8	94	n.	6	2.7		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.84	656.3	30.09	764.3	66	18.9	35	se.	5	2.2		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.72	754.9	29.79	756.7	66.5	19.2	76	e.	2	0.9		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.77	756.1	29.82	757.4	71.5	21.9	96	nw.	5	2.2			fg.			0.01	0.3	dense fog	J. B. Marbury.
Sandusky, Ohio	29.36	745.7	30.03	762.7	64	17.8	84	se.	7	3.1		6 ck	3 s	se.	se.	0.33	8.4	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.18	766.0	30.21	767.3	60.0	15.6	75	e.	19	8.5		10 k	0	e.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	71	21.7	51	se.	9	4.0		6cs;ck	0	se.		inap.	inap.	fair	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.80	756.9	29.89	759.2	68	20.0	90	n.	4	1.8		7 ck	0	se.		0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.68	677.7	30.29	769.4	32	0.0	71	w.	3	1.3		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.88	758.9	30.12	765.0	51.8	11.0	59	nw.	3	1.3		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.80	731.5	30.02	762.5	57	13.9	51	n.	10	4.5		0	9 ks		n.	0	0	cloudy	W. M. Mattingly.
Sitka, Alaska	30.34	770.6	30.40	772.1	49	9.4	82	e.	4	1.8		0	5 k		e.	0.05	1.3	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.45	748.0	29.92	760.0	55.2	12.9	96	w	5	2.2			10 s		nw.	0	0	cloudy	J. B. Campbell
Smithville North Carolina	29.85	758.2	29.89	759.2	71.0	21.7	90	n.	9	4.0			10 s		ne.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.28	769.1	41.5	5.3	60	nw	1	0.4		0	sk.			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.25	742.9	29.92	760.0	54	12.2	62	se.	7	3.1			9 s		se.	0	0	cloudy	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.15	689.6	30.11	764.8	47	8.3	86	w	2	0.9		0	0			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					54	12.2	51	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.32	744.7	30.00	762.0	62	16.7	93	calm	0	0			fg.			0.06	1.5	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskka, Alaska	29.71	755.4	29.76	755.9	51	10.6	86	s.	8	3.6			10 s			0.02	0.5	cloudy	Samuel Applegate.
Verde, Fort, Arizona					53	11.7	50	nw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.71	754.6	29.96	761.0	58.0	14.4	86	calm	0	0		1 c	0	w		0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.04	763.0	30.15	765.8	62.4	16.9	84	ne.	4	1.8			10 s		ne.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.25	666.7	30.07	763.8	50	10.0	14	nw.	20	8.9			10 s		nw.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa.																			J. F. Hough.
Wilmington, N. Carolina	29.87	758.7	29.92	760.0	70.0	21.1	94	ne.	5	2.2			10 s		ne.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.82	732.0	30.12	765.0	42.8	6.0	94	n.	4	1.8		1 c	0	e.		2.05	52.1	clear	E. H. Thompson.
Yuma, Arizona	29.65	753.1	29.79	756.7	74.9	23.8	41	ne.	8	3.6		0	0			0.01	0.3	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					79	26.1		calm			0		6 k		ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. O.	22.04	559.8			54.0	12.2	69	calm	0	0			10 s			0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.97	761.2	76.6	24.8	88	w.	3	1.3		1 cs	7 s		se.	0	0	cloudy	Robert Johnstone
Paramaribo, S. A.	30.00	762.0	30.00	762.0	79	26.1	78	e.			3	3 c	4 s	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. O.	29.44	747.8	30.00	762.0	74	23.3	89	n.			1		10 ks		ne.	0.58	14.7	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76	24.4	90	se.			1		9 ks		se.	0.41	10.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Yuma Factory, B. A.	29.74	755.4	29.80	756.9	38.5	3.6	95	w.	8	3.6		2 c	2 s	w.	w.	0	0	fair	Fontesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 39° 15′, E. 22° 49′	29.94	760.5	80	26.7	46	wnw.			1		1	wnw.				sm'h		blue sky.
H. M. S. Coquette, N. 36° 00′, E. 15° 08′	30.07?	763.8?	76	24.4		sw.			2		0					sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.75	755.6	79	26.1	91	wnw.			3		6	wnw.						d. clouds.
H. M. S. Griffon, N. 39° 00′, W. 69° 29′	30.11	764.8	68	20.0	69	ne.			5		4	nne.				6	nne.	squally.
H. M. S. Iris, off Port Said, Egypt	29.96	761.0	81	27.2	78	ene.			2-4		0							blue sky.
H. M. S. Tenedos, N 51° 15′, W. 56° 05′	30.08	764.0	50	10.0	93	nw.			1		9	nw.						d. clouds.
H. M. S. Tyne, N. 26° 50′, W. 16° 19′	30.20	767.1	75	23.9	90	ne.			4		3					3	n.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.20	767.1	51	10.6	86	calm	0	0			0			0	0			foggy.
U. S. S. Alliance, N. 44° 20′, W. 65° 32′	30.26	768.6	52	11.1	93	nne.			2		2		calm	0	0	sm'h		clear.
U. S. S. Galena, N. 27° 49′, W. 66° 08′	30.08?	764.0?	79	26.1	95	ssw.			3		5					mod.	sw.	fair.
U. S. S. Jamestown, N. 27° 28′, W. 21° 50′	30.21	767.3	76	24.4	77	e.			3		2					sm'h	ese.	fair.
U. S. S. Kearsarge, Lisbon, Portugal	30.15	765.8	70	21.1	95	w.			2		10		w.					cloudy.
U. S. S. Lancaster, N. 38° 31′, E. 1° 53′	30.00	762.0	79	26.1	82	wsw.			2		2		calm			sm'h		fair.
U. S. S. Portsmouth, Woods Holl, Mass	30.23	767.8	59	15.0	94	ne.			3		5		ne					fair.
U. S. S. Powhatan, St. Johns N. F	29.99	761.7	52	11.1	86	nnw.			2		10		n.					cloudy.
U. S. S. Quinnebaug, Port Mahon, Minorca, Spain	30.10?	764.5?	79	26.1	66	w.			3		6		w.			sm'h		fair.
U. S. S. Saratoga, Penfield Reef, Conn			55	12.8	93	ne.			3		2		ne.	0	0	sm'h		fair.
U. S. S. Swatara, Georgetown, P.E.I.	30.16	766.1	56	13.3	87	e.			1		10		e.	light	light	sm'h		cloudy.
U. S. S. Vandalia, Halifax, N.S	30.14	765.5	55	12.8	87	ne.					10							cloudy.
U. S. S. Yantic, N. 43° 51′, W. 57° 14′	30.10	764.5	55	12.8	81	ne.			4		8							cloudy.
S. S. British Crown, N. 41° 03′, W. 61° 58′†	30.05	763.3	68	20.0		nne.			5		8		ne.	0	0	mod.	nne.	
S. S. British Prince, N. 51° 43′ W. 22° 43′*†	29.64	752.8	58	14.4		se.			2		10			sh'rs	sh'rs	sli't	ne.	overcast.
S. S. Ohio, N. 39° 22′, W. 73° 10′†	30.13	765.3	62	16.7	94	e.			3		7		wnw	0	0			cloudy.
S. S. Grecian, N 57° 00′, W. 17° 40′	29.88	758.9	57	13.9	87	ese.			3		10		sw.	0	0	sm'h		cloudy.
S. S. Nova Scotian, Halifax, N.S	30.20	767.1	55	12.8		nne.			2		0							clear.
S. S. Polynesian, Montreal, Canada	30.17	766.3	68	20.0		e.			2		3		ne.	0	0			fair
S. S. Prussian, Glasgow, Scotland	29.80	756.9	58	14.4		wnw.			3		8		w.	0	0			cloudy.
S. S. Scandinavian, N. 52° 49′, W. 14° 57′	29.78	756.4	59	15.0		e.			3		1 k		calm	0	0	light	nne.	blue sky.
S. S. Sardinian, N. 56° 17′, W. 19° 52′	29.85	758.2	56	13.3		e.			5		9		e.	0	0	r'gh	e.	overcast.
S. S. Alvo, Colon, U.S.C*	29.86	758.4	76	24.4		se.			3		5		calm	0	0			fine.
S. S. Avilla, N. 18° 13′, W. 75° 37′*†	30.01	762.2	81	27.2		e.			1		5		e.	rain	rain	r'gh	e.	
S. S. Assyria, N. 38° 23′ W. 13° 50′	30.10	764.5	72	22.2	95	w.			4		9		w.	1 h'r	1 h'r	3	w.	misty.
S. S. Australia, New York Bay, N.Y *†	30.10?	764.5?	55	12.8		ene.			6		6		sw.	0	0			fine.
S. S. Dorian, Palermo, Sicily	29.94	760.5																
S. S. Furnessia, Liverpool, Eng †	29.83	757.7	68	20.0	84	n.			1		10		n.	0	0			
S. S. Cephalonia, N. 42° 25′, W. 68° 43′	30.22	767.6				ne.			3		1		ne.	0	0	sli't	e.	blue sky.
S. S. Bothnia, N. 51° 47′, W. 7° 59	29.74	755.4	69	20.6	90	ne.			2		10		ne.	0	0	sm'h		hazy.
S. S. Pavonia, N. 41° 31′, W. 54° 11′*	30.01	762.2	63	17.2	?	nne.			6		9		nne.	0	0	mod.	nne.	cloudy.
S. S. Scythia, N. 43° 25′, W. 52° 19′	29.95	760.7	57	13.9	94	wnw.			2		7?		n.	0	0	long	n.	clear.?
S. S. Samaria, N. 48° 30′ W. 31° 00′*	29.10	739.1	63	17.2		e.			4		3		e.	2 h'r	2 h'r	con.	ene.	fair.
S. S. Canada, N. 43° 59′. W. 59° 07′*	30.05	763.2	51.8	11		ene.			3		k		ene.	0	0	r'gh	ene.	covered.
S. S. Bohemia, N. 46° 06′, W. 35° 10′†	28.99	736.3				w.			5-7		7		w	4 h'r	4 h'r	h'vy	w.	foggy.
S. S. Gellert, N. 49° 50′, W. 12° 20′			61	16.1	94	sw.			2		2		wsw.	1 h'r	1 h'r	sm'h	wsw.	clear.
S. S. Rugia, N. 43° 36′ W. 55° 34′	30.05	763.3	61	16.1		n.			4		10		n.	15 h'r	15 h'r	rg'h	nnw.	fair.
S. S. Silesia, Hamburg, Germany			55.6	13.1		se.			3		8		se.	0	0			cloudy.
S. S. Westphalia, N. 42° 53′, W. 63° 19′	30.07	763.8	59	15.0	88	n.			2		2		e.	2 h'r	2 h'r	sm'h	e.	fair.
S. S. City of Paris, N. 41° 58′ W. 63° 00′*	30.10	764.5				ne.			4		8		nne.	0	0	sli't	ene.	cloudy
S. S. Nessmore, N. 41° 00′, W. 56° 38′*	30.03	762.7	56	13.3	?	n.			6		7		nw.	0	0	mod	n.	cloudy.
S. S. Archimedes, N. 44° 26′, W. 36° 24′	29.09	738.9				w.			6		5		nw	shr's	shr's	high	var.	squally.
S. S. Hevelius, N. 30° 49′, W 18° 30′ *†	30.20	767.1	74	23.3		ene.			3		3		ene.	0	0	sm'h		clear.
S. S. Teneirs, N. 9° 11′ W. 27° 00′	30.03	762.7	85	29.4	68	ssw.			3	ck	7k; n	sse.		5.15	130.8	4	e.	
S. S. Sirius, N. 32° 30′, W. 17° 00′	30.21	767.3				wnw.			1		2		wnw.	0	0	mod.	wnw.	clear.
S. S. Rio Grande, N. 40° 00′, W. 73° 56′†	30.19	766.8	70	21.1		ne.			5		5		n.; nw.			h'vy	ene.	overcast.
S. S. Chalmette, New York, N.Y †	30.22	767.6	62	16.7		ne.			4		6		ne.	0	0	r'gh		fair.
S. S. New York, N. 39° 00′, W. 74° 00′*†	30.10	764.5	68	20.0		ene.			6		8		ne.	0	0	long	ne.	cloudy.
S. S. Lone Star, N. 32° 50′, W. 78° 54′*†	29.92	760.0	78	25.6		nne.			3		10		ne.	2 h'r	2 h'r	r'gh	ne.	rain squalls
S. S. Alleghany, Boston, Mass†	30.29	769.4	48	8.9		calm			0		fg.			0	0			dense fog.
S. S. Archimede, Palermo, Sicily †..	30.03	762.7	84	28.9		sse.			4		1		sse.	0	0			clear.
S. S. City of Merida, N. 19° 50′, W. 90° 45′*†	29.92	760.0	82	27.8		se.			3		5		se.	0	0	mod.	n.	squally.
S. S. City of Washington, N. 18° 40′, W. 92° 45′*†	29.85	758.2	80	20.7		nw.			5		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Cienfuegos, Cienfuegos, W.I*	29.94	760.5	81	27.2		calm			0		2		se.	0	0			fine.
S. S. Denmark, New York, N. Y†	30.22	767.6	57	13.9		ne.			2		3?			0	0			cloudy?
S. S. Egypt, New York, N.Y	30.20	767.1	58	14.4		n.			4		5		n.	0	0			fair.
S. S. England, N. 47° 19′, W. 33° 51′						wsw.			5		2?		wsw.	0	0	r'gh	var.	cloudy?
S. S. Greece, N. 42° 49′ W. 5° 36′	29.90	759.4	51	10.6	93	nnw.			6		7		nnw.	12 h'r	12 h'r	mod.	var.	fair.
S. S. Helvetia, N. 50° 56′, W. 22° 53′			61	16.1	94	ese.			4		10		se.	12 h'r	12 h'r	mod.	se.	cloudy.
S. S. The Queen, N. 41° 05′, W. 65° 17′			64	17.8		nne.			4		2		ne.	0	0	mod	ne.	fine.
S. S. Donau, N. 50° 40′, W. 1° 36′	29.75	755.6				ne.			2		4		n.	0	0	sm'h	ne.	fair.
S. S. Fulda, N. 50° 29′, W. 17° 58′	29.68	753.8	59.9	15.5	89	w.			2		8		w.	0	0	mod.	sw.	cloudy.
S. S. Hermann, N 43° 21′, W. 55° 59′	30.02	762.5	59.0	15.0	78	n.			4		8		n.	4 h'r	4 h'r	mod.	n.	cloudy.
S. S. Ohio, N. 47° 16′, W. 32° 58′	28.94	735.1				se.			6		6		se.	10 h'r	10 h'r	cross	var.	fair
S. S. Rhein, N. 48° 32′, W. 28° 20′	29.17	740.9	60.8	16.0		s.			5		3?		sw.	2 h'r	2 h'r	cross	sw.	cloudy?
S. S. Strasseburg, N. 49° 55′, W. 8° 53′	29.73	755.1	68.0	20.0	66	wnw.			1		2			2½ hr	2½ hr	3	sw.	clear.
S. S. Werra, N. 45° 46′, W. 51° 26′	29.92	760.0	50.0	10.0		nne.			6		10		ne.	4 h'r	4 h'r	high	nne.	squally.
S. S. Weser, N. 29° 54′, W. 66° 57′	29.95	760.7	75.2	24.0		wsw.			4		10		w.	½ h'r	½ h'r	mod.	w.	raining.
S. S. City of Augusta, Savannah, Ga †	29.96	761.0				n.			2		6		ne.	0	0			fair.
S. S. Muriel, St. Thomas, W.I	29.95	760.7	84	28.9		e.			3		0			0	0	sm'h		clear.
S. S. Orinoco, N. 38° 47′, W. 72° 00′			68	20.0		ene.			4		5		ene.	0	0	h'vy	e.	fair.
S. S. Pennland, N. 46° 34′, W. 47° 49′			48	8.9	?	n.			6		10		n.	16 h'r	16 h'r	mod.	se.	overcast.
S. S. Vaderland, Antwerp, Belgium			54	12.2		calm			0		10			0	0			foggy.
S. S. Waesland, N. 49° 05′, W. 36° 40′	29.09	738.9	59	15.0		nne.			7		6		ne.	3 h'r	3 h'r	high	ese	squally.
S. S. P. Caland, Jersey City, N. J	30.23	767.8	60.4	15.8	85	nne.			4									hazy.
S. S. W. A Scholten, Rotterdam, Holland			64.4	18.0	90	nw.			4		6		nnw.	1 h'r	1 h'r			hazy.
S. S. Caracas, Curacoa, W.I*†	30.00	762.0	84	28.9	79	ese.			4		5		e.	0	0	light	e.	fair.
S. S. State of Georgia, N. 46° 15′, W. 53° 35′	29.99	761.7	50	10.0		n.			5		8		n.	0	0	long	ne.	hazy.
S. S. State of Indiana, N. 54° 01′ W. 25° 15′*†	29.50	749.3	56	13.3		e.			5		2		e.	0	0	r'gh	e.	clear.
S. S. State of Nevada, Glasgow, Scotland†	29.78	756.4	62	16.7		w.			2		2		wnw.	0	0			clear.
S. S. Thingvalla, N. 58° 14′, E. 2° 16′†	29 78?	756.4?	50.0	10.0		nw.			4		3		n.	2 h'r	2 h'r	cross	nw.	clear.
S. S. Romano, N. 47° 13′, W 23° 56′			62	16.7		s.			6		10		s.	10 h'r	10 h'r	mod.	s.	cloudy.
S. S. Salerno, N. 47° 17′, W 35° 37′ *†	28.98	736.1	68	20.0		nw.			4		8		nw.	2.0	51.	hv'y	nw.	cloudy.
S. S. Texas, Green Island, Canada *†	30.15	765.8	47	8.3	84	ssw.			5		0			0	0	sm'h		clear.
S. S. Lake Huron, N. 50° 25′. W. 59° 13′	30.11	764.8	52	11.1		calm			0		8		ene.	0	0	sm'h		cloudy.
S. S. Lake Manitoba, N. 56° 50′, W. 18° —′	29.81	757.2	56	13.3		e.			4		8		e.	10 h'r	10 h'r	mod.	e.	cloudy.
S. S. Daniel Steinmann, Antwerp, Belgium*†	29.63	752.6	60	15.6		s.			3		10			3 h'r	3 h'r			rainy.
S. S. Saxon, N. 40° 05′, W. 73° 21′†	30.17	766.3				ne.			3		5			0	0		ne.	threatening.
S. S. Celtic, N. 51° 20′ W. 14° 30′†	29.80	756.9	65	18.3	78	var.			1		5		sw.	0	0	sm'h		fair.
S. S. Iowa, N. 40° 40′, W. 52° 43′ †	29.92	760.0	52	11.1		nnw.			4		8		n.	0	0	light	ne.	cloudy.
S. S. City of Alexandria, Havana, Cuba, W. I *†	29.87	758.7	78	25.6		calm			0									d. clouds.
Bk. Arda, N. 50° 18′, W. 15° 54′†	29.76	755.9				sw.			1		1?		w.	sh'rs	sh'rs	mod.	w.	cloudy.?
Bk. Alpheus Marshall, N. 29° 46′, W. 32° 56′*†	30.07	763.8	78	25.6	95	s.			5		4		s.	0	0	long	wnw.	fair.
Bk. Ariadne, N. 40° 07′, W. 66° 46′	30.16	766.1	64	17.8	67	ne.			5		8		ne.	0	0	cross	ne.	cloudy.
Schr. Arthur Burton, Boston, Mass†	30.21	767.3				calm			0		smk		calm	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Gloucester, Mass†	30.29	769.4	63	17.2		calm			0									clear.
S. S. Antonio Lopez, Santander Spain	30.01	762.2	69.5	20.8	85	wnw.			4		10			8 h'r	8 h'r	mod.	wnw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, N. 42° 14′, W. 70° 07′†	30.14	765.5	63	17.2		nne.			4		2		ne.	0	0	sm'h	ne.	clear.
Bk. Aureola, N. 1° 39′, W. 26° 20′ †	29.93	760.2	88	31.1		se.			5		5		se.	0	0	mod.	se.	fair.
Bk. Adelaide, N. 13° 36′, W. 39° 06′†*	30.03	762.7				ene.			3		1		ene.	0	0	light	ene.	clear.
Bg. Belle of the Bay, N. 23° 50′, W. 79° 50′†	29.86	758.4				sw.			1		5		ne.	0	0	sm'h	e.	fair.
S. S. Cannonbury, San Juan, Porto Rico, W. I*†	30.00	762.0				calm			0		2		e.	0	0	sm'h		clear.
Bk. Ceylon, N. 34° 03′, W. 47° 35′†	29.81	757.2	77	25.0	77	nne.			5		7		wnw.	light	light	r'gh	ssw.	cloudy.
Schr. C. R. Flint, N. 28° 18′, W. 55° 48′†	29.93	760.2	84	28.9		wsw.			5		3		sw.	0	0	mod	se.	clear.
Bk. Cato, N. 42° 50′, E. 4° 56′ †	29.90	759.4				nw.			2		2		n.					clear.
Bk. Don Justo, N. 48° 44′, W. 44° 35′						ne.			1		10		ne.	0	0	r'gh	ne.	cloudy.
Bk. Childwall, N. 14° 57′, W. 25° 04′			84	28.9	87	se.			2		3		se.	0	0	sm'h		clear.
Bkt. David A. Preston, N. 44° 30′, W. 66° 14′						n.			2		10		ne.	c	0	sm'h		
Bk. Diamant, N. 38° 20′, W. 62° 00′	29.96	761.0	68.0	20.0	81	ne.			4		5 k			0	0	4	ne	fair.
S. Dynomine, N. 44° 43′, W. 11° 00′	29.90	759.4	64	17.8	94	wsw.			4		2			mod.	mod.	mod.	wsw.	misty.
S. Dora, N. 38° 37′, W. 71° 42′*†	30.08	764.0	68.9	20.5		nne.			6		6		ne.	0	0	mod.	ne.	fair.
S. David Stewart, N. 28° 20′, W. 66° 15′†	29.88†	758.9?	88	31.1		var.			3		5		sw.	0	0	long	n.	
S. E. J. Spicer, Antwerp, Belgium	29.58	751.3	60	15.6	94	se.			1		10		s.	12 h'r	12 h'r			light rain.
Schr. Edith R. Seward, St. Simon's Island, Ga			70	21.1		nne.			2		6		ne.	0	0			fair.
Bk. E. D. Bigelow, Galveston, Texas†	29.95	760.7	71	21.7		n.			4		0			0	0			clear.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.20	767.1	54	12.2		ene.			2		4		e.	0	0			clear.
S. Gatherer, N. 19° 05′, W. 36° 02′*	29.99	761.7	81	27.2	78	nw.			4		3		n.	0	0	chop	e.	clear.
Bg. George, Salinas, Porto Rico, W. I.*†	30.04	763.0	81	27.2		ne.			1		0			0	0			clear.
Bk. Galeon, N. 31° 26′, W. 15° 28′†	30.25	768.3	72	22.2		n.			2		1			0	0		nw.	blue sky.
Bk. Grey Eagle, N. 12° 57′, W. 37° 15						ene.			1		1		ene.	0	0	short	ne.	clear.
S Hedwig, N. 29° 40′, W. 16° 14′	30.28	769.1	74.3	23.5	77	ne.			4		3		ne.	0	0	2-3	var.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	29.88	758.9				e.			1		1		e.	0	0			clear.
Bk. Johanne, N. 49° 45′, W. 38° 37′*†	29.25	742.9	56	13.3		e.			6		8		e.	0	0	long	e.	fine.
Schr. John L. Thomas, N. 32° 30′, W. 76° 44′*†	29.86	758.4	81	27.2	87	e.			2		10		e.	3 h'r	3 h'r	h'vy	ne.	squally.
Schr. Jennie N. Huddell, Delaware Bay†	30.15	765.8	66	18.9	84	ne.			3		8		e.	0	0			cloudy.
Bk. John H. Pearson, N. 41° 39′, E. 4° 33′						wnw.			1				wnw.			short	sw.	clear.
Schr. Jas. Slater, N. 3° 00′, W. 49° 10′ †	30.03	762.7				ne.			3		2		calm	0	0	mod.	ese.	
Bg. Josefa, N. 49° 48′, W. 33° 50′†	29.04	737.6				e.			5		3		se.	7 h'r	7 h'r	h'vy	se.	fair.
Bkt. Kryolith, N. 50° 04′, W. 51° 46′ *†	29.97	761.2				nnw.			5		10		n.			long	e.	hazy
Bk. Lady Hincks, N. 25° 28′, W. 29° 10′*†	30.10	764.5							1-4					0	0			clear.
Bg. L. & W. Armstrong, N. 25° 16′, W. 66° 35′*†.	29.98	761.5				sw.			3		2		sw.	0	0	sm'h	sse.	clear.
S. S. Madrid, Taganrog, Russia †	29.90	759.4	69	20.6	80	w.			2		0			0	0			clear.
Bk. Orpheus, N. 43° 45′, W. 52° 19′	30.06?	763.5?	62	16.7		nnw.			4		4		nnw.	0	0	sm'h		fair.
Schr. Rollin Sanford, Sanibel Island, Fla.†	29.82	757.4				calm			0		2		calm	rain	rain			clear.
Bk. Rosalie, N. 45° 35′, W. 12° 59′*†	29.89	759.2				sw.			5		4		wsw.	4 h'r	4 h'r	mod.	sw.	fair.
Schr. S. B. Hubbard, Doboy Island, Ga.†	29.90	759.4	81	27.2		n			5					0	0			fine.
Bk. Saga, N. 60° 42′, E. 19° 03′ *†	29.72	755.0	45	7.2		nne.			4		5		nne.	2 h'r	2 h'r	long	nne.	fair.
Bgt. Sunlight, N. 21° 40′, W. 63° 54′*†	30.01	762.2				nne.			2		2		nne.	0	0	long	se.	clear.
Bk. Samuel B. Hale, N. 40° 00′, W. 65° 35′*†	30.12	765.0				ne.			5		5		ne.	0	0	short	ne.	fair.
Bk. Scud, N. 37° 30′, W. 71° 35′*†	30.09	764.3	73	22.8		ene.			7		5		ene.	0	0	short	e.	hazy.
Bk. St. Lawrence, N. 35° 09′, W. 63° 53′ *†	29.60	751.8				ne.			6				ne.	0	0	h'vy	ne.	fair.
Bk. Southern Belle, off Cape Creux, Spain †.	29.85	758.2	74	23.3		nnw.			4							sm'h		clear.
Bk. Tuck Sing, N. 31° 33′, W. 78° 50′ *†.	30.20	767.1				e.			6		2					sm'h		fine.
Bg. Teneriffe, N. 40° 28′, W. 73° 00′ *	29.86	758.4				n.			2		8		se.	1 h'r	1 h'r	mod.	ne.	squally.
S. S. Tower Hill, N. 49° 47′, W. 5° 20′*†	29.78	756.4				var.			1-3		10					long	w.	hazy.
Schr. Viola Reppard, Brunswick, Ga†	29.91	759.7	76	24.4		nnw.			2		4		calm	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Port Camamu, Brazil	29.99	761.7	75.5	24.2	93	nnw.			2		6		nnw.					d. clouds.
H. M. S. Opal, St. Helena, Africa	30.17	766.3	69	20.6	90	e.			3		4		ese.					d clouds
H. M. S. Sylvia, Montevideo, Uruguay	30.26	768.0	53.7	12.1	93	ene.			1		9							d. clouds.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.95	760.8	76.1	24.5	84	s			3		7		s.	0	0	2		gloomy.
H. P. M. S. Bengo, Landana, Lower Guinea	29.88	758.9	74.3	23.5	96	s.			3		10			1 h'r	1 h'r	2		overcast.
H. P. M. S. Douro, S. 2° 17′, E. 8° 48′	29.99	761.7	80.2	20.8	77	s.			4		10			0	0	4	ssw.	overcast.
U. S. S. Brooklyn, Montevideo, Uruguay *.	30.26	768.6	55	12.8	93	e.	10	4.5			10		calm	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*.	30.24	768.1	56	13.3	87	se.			3		8		se.			sm'h		foggy.
Bk. E. L. Pettingill, S. 19° 12′. W. 37° 46′*†	30.15	765.8	75	23.9		n.			4		8		ne.	0	0	sm'h	se.	
Bk. Great Surgeon, S. 38° 34′, E. 1° 43′*†	30.44	773.2	54	12.2		wsw.			2		9		wsw.	1 h'r	1 h'r	mod.	sw.	drizzling.
Bk. Godeffroy, S. 55° 20′, W. 63° 15′	29.86	758 4				ssw.			6		8		ssw.	snow	snow	mod.	sw.	cloudy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.17	766.3	56	13.3		se.			2				s.	2 h'r	2 h'r			cloudy.
Bgt. Willie, S. 9° 45′, W. 34° 30′ *†	30.06	763.5	82	27.8		e.			4		4		e.	0	0	long	ese.	fair.
Bk. Mohican, S. 13° 40′, W. 33° 40′	30.01	762.2	80	26.7		e.			6		8		ese.	0	0	r'gh	ese.	fair.
S. S. Olbers, Rio de Janeiro, Brazil	30.05	763.3	75.5	24 2	84	w.			4		4		w.	0	0	sm'h		fine.
H. M. S. Bondicea, Saldanha Bay, Cape Colony	30.09	764.3	65	18.3		s.			3		3	wnw.						d. clouds.
Bg. John Wesley, S. 9° 31′, W. 35° 12′*†	29.98	761.5	79	26.1		ene.			6		4		n.	¼ h'r	¼h'r	rg'h	ne.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 38′, E. 135° 37′	29.74	755.4	59	15.0	82	sw.			6		2	wsw.				3	ssw.	squally.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 36′	29.91	759.7	67	19.4	60	wnw.			2-4		1					1	wnw.	blue sky.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.93	760.2	82.7	28.2	79	calm			0		2							blue sky.
H. M. S. Mutine, N. 1° 20′, W. 89° 42′	29.96	761.0	73	22.8		sse.			3		10					2	sse.	overcast.
H. M. S. Zephyr, N. 41° 46′, E. 140° 43′	29.89	759.2	63	17.2	?	nw.			1		2	e.				2	n.	blue sky
H. P. M. S. Pamega, Canton, China	29.99	761.7	80.6	27.0	84	n.			2		2			½ h'r	½ h'r			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.00	762.0	68.5	20.3	95	n.			1		10		wnw.	0.12	3.0			cloudy.
U. S. S. Essex, Roze Island, Corea	30.00	762.0	69	20.6	85	wnw.			4		2					sm'h	sw.	clear.
U. S. S. Hartford, Panama, Panama*	29.83	757.7	80	26.7	96	calm			0		7			0	0	sm'h		cloudy.
U. S. S. Monocacy, Che Foo, China	30.00	762.0	72	22.2	58	sw.			3		0					sm'h		clear.
U. S. S. Palos, N. 22° 16′, E. 114° 31′	29.95	760.7	80	26.7	87	ene.			5		10		e.			mod.	ene.	cloudy.
U. S. S. Pensacola, N. 19° 47′, E. 166° 15′ *	29.92	760.0	83	28.3	79	e.			3		2		e.	light	light	mod.	e.	clear.
U. S. S. Richmond, Yokosuka, Japan	29.93	760.2	71	21.7	95	n.			1		7		n.	0.5	13.			cloudy.
S. S. Coptic, N. 38° 03′, W. 123° 41′	29.88	758.9	60.0	15.6	85	var.			2		3		n	0	0	sm'h	n.	misty.
S. S. Oregon, N. 39° 08′, W. 143° 47′†	29.93	760.2	57.5	14.2	84	ne.			2							sm'h		hazy.
S. S. Ancon, San Francisco, Cal †	29.92	760.0	68	20.0	74	calm			0		5		se.					fair.
S. S. State of California, Portland, Oregon†	30.09	764.3	56	13.3	87	w.			1		0							clear.
S. S. Queen of the Pacific, San Francisco, Cal †	29.92	760.0	68	20.0	94	ene.			1		8			0	0			cloudy.
S. S. Victoria, San Francisco, Cal †	29.84	757.9	69	20.5	80	calm			0		5		wnw.					fair.
S. S. City of Pekin, N. 35° 40′, E. 141° 15′†.	29.96	761.0	73	22.8	81	sw.			2		7		sw.	0	0	large	se.	cloudy.
S. S. City of Tokio, Hong Kong, China†	30.00	762.0	80	26.7	91	se.			5		5		se.	0	0			fair.
S. S. City of Rio de Janeiro, Yokohama, Japan †	29.99	761.7	70	21.1	90	n.			2		7		n.	0	0	sm'h		cloudy.
S. S. Granada, Panama, Panama †	29.85	758.2	80	26.7	87	calm			0		10		e.	2 h'r	2 h'r	light	s.	cloudy.
S. S. San Blas, N. 21° 30′, W. 105° 18′			80	26.7		nnw.			3		10		nw.	1 h'r	1 h'r	sm'h	se.	cloudy.
S. S. Zealandia, N. 10° 32′, W. 162° 11′†	29.99	761.7	80	26.7	91	ne.			4		0					sm'h		clear.
S. S. San Juan, N. 19° 13′, W. 104° 05′			79	26.1		ese.			2		5ck		ese.	0	0	high	sse.	fine.
S. S. Armenia, N. 5° 30′, W. 114° 35′ *	29.84	757.9	78	25.6	78	ssw.			3		9			0	0	mod.	se.	cloudy.
S. S. Storm King, N. 22° 55′, W. 122° 20 *†	29.95	760.7				nnw.			3		10		nnw.	0	0	sm'h	nnw.	cloudy.
S. S. David, N. 42° 03′, W. 134° 40′*†	30.05	763.3	68	20.0	95	nw.			2		8		wnw.	0	0	light	wnw.	hazy.
S. E. B. Sutton, N. 31° 00′, W. 121° 57′*†	29.93	760.2	66.5	19.2	94	nw.			4		1		wnw.	0	0	sm'h	nw.	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.96	761.0	81.3	27.4	85	se.			1		5					sm'h		d. clouds.
U. S. S. Iroquois, Callao, Peru	30.03	762.7	61	16.1	88	se.			2		10							drizzling.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Lackawanna, Arica, Peru*	29.98	761.5	60	15.6	82	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	59	15.0	94	se.	.....	.....	2	.....	10	.....	se.	.....	.....	.....	.....	misty.
U. S. S. Wachusetts, Callao, Peru*	29.95	760.7	59	15.0	100	se.	.....	.....	1	.....	10	.....	calm	.....	.....	.....	.....	overcast
S. S. City of Sydney, Sydney, N. S. W*†	30.03	762.7	63	17.2	57	calm	.....	.....	0	.....	0	.....	.....	.....	.....		.....	clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.07	763.8	66	18.9	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	mod.	se.	dense fog.
S. David Crockat, S. 46° 58′, W. 104° 20′*	29.11	739.4	44	6.7	92	w	.....	.....	2	.....	10	.....	.....	8 h'r	8 h'r	long	se.	drizzling.
S. Sovereign of the Seas, S. 25° 34′, W. 89° 49′*†	30.09	764.3	55	18.3	94	nnw.	.....	.....	4	.....	9	.....	nw.	0	0	long	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 30′, E. 53° 50′	30.22	767.6	.....	.....	.....	e.	.....	.....	4	.....	9	ese.	.....	.....	.....	6	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.03	762.7	80	26.7	74	s.	.....	.....	2	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	80	26.7	87	s.	.....	.....	1	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.93	760.2	91.5	34.7	56	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Juniata, S. 5° 35′, E. 106° 41′	29.96	761.0	83	28.3	91	nnw.	.....	.....	3	.....	5	.....	calm	0	0	sm'h	.....	hazy.
S. S. Galatia, N. 15° 08′, E. 85° 58′†..	29.79	756.7	83	28.3	87	sw.	.....	.....	3	.....	4	.....	sw.	0	0	mod.	sw.	fine
S. S. Benledi, N. 11° —′ E. 57° 30′*	29.83	757.7	81	27.2	83	sw.	.....	.....	5	.....	4	.....	sw.	rain	rain	r'gh	var.	hazy.
Bk. Pilgrim, S. 35° 14′, E. 20° 43′*†	30.25	768.3	.....	.....	.....	sse.	.....	.....	3	.....	5?	.....	s.	2 h'r	2 h'r	long	s.	clear.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 23, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.7	77.7	25.4	82	e.			1		0			0	0	clear	Roziere.
Algiers			30.06	763.6	79.5	26.4	58	w.			5		0			0	0	clear	Thève.
La Calle			30.04	763.0	81.3	27.4	67	nne.			2		1			0	0	very fair	Fonfrède.
Tunis			30.04	763.1	80.6	27.0	60	e.			2		0			0	0	clear	Delord.
Saida			30.12	765.1															Pérès.
Tebessa			30.08	764.0	84.2	29.0	52	s.			1		2			0	0	fair	St. Martin.
Geriville					80.0	30.0	12	n.			1		0			0	0	clear	Forfert.
Laghonat			30.06	763.6	90.7	32.6	28	ne.			2		2			0	0	fair	Abraham.
Biskra			30.07	763.8	86.7	30.4	41	se.			1		0			inap.	inap.	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.13	765.3	48.3	9.1	77	calm	0	0			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.92	759.9	30.01	762.2	48.0	8.9	79	s.	7	3.1			1			0.07	1.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.6	29.78	756.3	58.6	14.8	98	ne.			3		10			0.618	15.7	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.89	733.8	29.65	753.0	54.7	12.6	87	w.	16.1	7.2			10			0.421	10.7		Dr. Wierzbiski
Eperies	28.80	731.4	29.66	753.3	60.8	16.0	63	nw.			2		10 ks		se.	0.118	3.0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.34	719.9	29.69	754.2	74.5	23.6	52	sw.			2		3			0.425	10.8		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	726.0	29.91	759.8	54.9	12.7	88	wnw.			3		10			0.083	2.1		The Staff.
Lemberg	28.61	726.6	29.58	751.2	55.6	13.1	89	se.			3		10			0.098	2.5		Dr. T. Stanecki.
Pola	29.65	753.2	29.76	755.9	72.3	22.4	88	wnw.			7		10					thund'r st'm	I. R. Hydrographic Office.
Szathmar	29.22	742.3	29.67	753.7	66.2	19.0	73	w.			5		5			0.051	1.3		Joseph Midlinszky, S. J
Szegedin	29.48	748.8	29.75	755.7	63.1	17.3	81	nw.			1		10			0.343	8.7		Karl Stiegel.
Trieste	29.69	754.0	29.78	756.5	70.0	21.1	55	n.			3		10			0.102	2.6		Royal Academy.
Vienna	29.11	739.5	29.82	757.3	62.2	16.8	63	w.			5		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.96	761.0	30.05	763.5	49.0	9.4	54	ene.	4	1.8			3			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.72	754.9	29.95	760.7	57.6	14.2	79	se.	15	6.7									S. Call.
Bidston, Liverpool Obs'y			30.01	762.2	59.8	15.4	69	se.	15	6.7			3					blue sky	John Hartnup.
Bolton, Sharples	29.49	749.0	30.03	762.7	58.5	14.7	79	se.	9	4.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.34	8.6		McLandsborough & Preston.
Bridgetown, Barbadoes	29.90	759.4	29.93	760.2	88.0	31.1	66	se.			1		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.96	761.0	30.07	763.8	64.0	17.8	67	w.			0.2		1					blue sky	John McLaren.
Chatham, School M. E.	29.91	759.7	30.08	764.0	63.0	17.2	48	w.			1		7					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.79	756.7	30.02	762.5	58.7	14.8	91	sse.			3		10					overcast	The Staff.
Fort Napier, Natal	27.89	708.4	30.12	765.0	70.5	21.4	59	s.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.58	751.3	29.81	757.2	87.0	30.6	88	se.			5		6					lightning	J. W. Smith.
Galway, Queen's College	29.78	756.4	29.81	757.2	57	13.9	63	se.			3		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	80.2	26.8	83	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.73	755.1	29.93	760.2	53.1	11.7	72	ne.			3		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.91	759.7	30.08	764.0	65.1	18.4	51	s.			1		0					blue sky	The Staff.
Guernsey	29.80	756.9	30.10	764.5	62.0	16.7	77	ssw.			2		9			1.26	32.0	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.05	763.3	30.09	764.3	61.7	16.5	67	ssw.	11	4.9			0					blue sky	The Staff.
Leicester, Museum	29.78	759.4	30.03	762.7	60.1	15.6	76	nw.			1		2					blue sky	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	79.4	26.3	78	sw.			2		6					d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.96	761.0	30.01	762.2	86.0	26.7	95	s.			1		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.54	750.3	30.06	763.5	62.0	17.0	75	ne.			1		0					blue sky	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.83	757.7	30.06	763.5	60.5	15.8	77	s.			2		7					d. clouds	The Staff.
Plymouth	29.94	760.5	30.01	762.2	59.4	15.2	85	sse.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.93	760.2	30.03	762.7	48.5	9.2	66						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.81	757.2	29.88	758.9	84.8	29.3	56	sw.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.58	751.3	30.03	762.7	61.7	16.5	70	s.			1		4			0.35	8.9	d. clouds	W. F. Cooper.
Silloth Rectory	29.97	761.2	30.00	762.0	58.5	14.7	75	e.			2		6			0.020	0.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.04	763.0	57.0	13.9	75	sse.	2	0.9			10					overcast	W. C. Carlisle.
Strathfield Turgiss					64.2	17.9	65	sw.			1.5		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.95	760.7	30.04	763.0	63	17.2	83	s.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.69	754.1	29.72	754.9	58.6	14.8	90	se.	38	17.0			10					squally	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.08	764.0	78.8	26.0	58	w.	5.0	2.2		2 c		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.02	762.5	30.05	763.3	55	12.8	87	calm	0	0		0	0			0	0	blue sky	Hon. J. Ferguson
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	57	13.9	79	w.	4	1.8		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.99	761.7	30.06	763.5	53	11.7	85	sw.	4	1.8		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.95	760.7	30.14	765.5	44.1	6.7	94	se.			1	0	fg			0	0	light fog	Jas. Smith, M. A.
Dalhousie, N. B.	29.99	761.7	30.03	762.7	62.5	16.9		sw.			1					0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.	27.84	707.1			40	4.4	56	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.07	763.8	30.09	764.3	48	8.9	80	w.	10	4.5		0	hz.			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.13	765.3	39	3.9	100	n.	1	0.4		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.07	763.8	30.14	765.5	53.0	11.7	74	nw.	8.0	3.6		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.09	764.3	30.15	765.8	57	13.9	69	sw.	10	4.5		0	hz.			0	0	hazy	J. Chipman Seeley
Granton, Ontario	29.01	736.8	30.10	764.5	55.0	12.8	93	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.98	761.5	30.11	764.8	53	11.7	80	w.	7	3.1		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.66	753.4	30.04	763.0	59.2	15.1	98	e.			1	cs	0	nw.		0.38	9.7	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.84	757.9	30.17	766.3	59	15.0	93	sw.	3	1.3		10 c	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.91	759.7	29.95	760.7	64.0	17.8	73	sw.			4	5 ck	0			0	0	d. clouds	C. H. Rigby.
London, Ontario	29.20	741.7	30.09	764.3	54.7	12.6	98	calm	0	0		0	8 ks			0	0	d. clouds	F. B. Reed.
Medicine Hat	27.76	705.1	30.10	764.5	30	2.2	56	calm	0	0		0	2 s			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.96	761.0	30.16	766.1	52	11.1	100	s.	6	2.7		5 c	sk	w.		0	0	clearing	C. H. McLeod, C. E.
Ottawa, Ontario	29.92	760.0	30.17	766.3	45.7	7.6	93	sse.				3 c	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.44	747.8	30.13	765.3	53	11.7	93	e.	5	2.2		5 k	0	sw.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.38	746.2	30.11	764.8	55.7	13.2	87	s.			1	8 c	0	s.		0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.42	747.3	30.10	764.5	62	16.7	94	se.	0	2.7		10 c	0	sw.		0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.07	763.8	62	16.7	84	e.	8	3.6			10 n		sw.	0	0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.81	706.4	30.12	765.9	36	2.2	66	sw.	8	3.6		2 cs	0	sw.		0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.80	756.9	30.15	765.8	54	12.2	90	s.	8	3.6			hz			0	0	dense haze	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.71	754.6	30.18	766.6	47	8.3	96	calm	0	0			fg			0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B.	30.19	766.8	30.24	768.1	50	10.0	92	sw.	1	0.4		0	hz			0	0	clear	
St. John, N. B	29.98	761.5	30.12	765.0	49.9	9.9	97	s.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	29.67	753.6	29.91	759.7	52	11.1	86	w.			1	0	2 ks			0	0	fair	The Commandant.
Saugeen, Ontario*	29.38	746.2	30.09	764.3	54	12.2	90	e.	4	1.8		10 cs	0			0	0	cloudy	
Stratford, Ontario	28.84	732.5	30.10	764.5	55.3	12.9	97	se.	2.0	0.9			10 s			0	0	d. clouds	C. J. Macgregor, M. A.
St. Pierre, N. F.			29.96	761.0	51.8	11.0		n.			2					0	0		The Commandant.
S. W. Point, Anticosti	29.99	761.7	30.02	762.5	49	9.4	93	n.	2	0.9		0	0					clear	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	29.96	761.0	30.03	762.7	54	12.2	90	sw.	10	4.5		0	0			0.01	0.3	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.76	755.9	30.14	765.5	57	13.9	93	e.	5	2.2			10 s			0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.08	738.6	30.13	765.3	56.3	13.5	91	ne.	2.5	1.1		9 k	0	se.		0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.13	765.3	30.19	766.8	53	11.7	96	w.	5	2.2		0	hz			0	0	hazy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	64.5	18.1	86	ene.	13.5	6.0			10 n			0.100	2.5	dense haze	I Garfelt.
Springbok Fontein	27.87	707.9			72	22.2	39									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	30.04	762.9	30.11	764.9	54.5	12.5	92	e.			1		10					cloudy	Samuel Redolez.
Iquique	30.04	763.1	30.07	763.8	59.7	15.4	64	s.			3							cloudy	Rafael Moreno.
Niebla	29.69	754.1	29.80	756.8	50.7	10.4	90	e.			1	3 n	1	w.	e.	0.685	17.4		Federico Köhling.
Punta Caldera	30.02	762.5	30.11	764.7	56.7	13.7		sw.			2		6 s		se.			cloudy	Manuel Tobar.
Punta Corona	29.84	757.8	30.02	762.6				n.			3		10			1.181	30.0	raining	Ignacio Ayala.
Valparaiso	29.87	758.8	30.02	762.4	50.5	10.3	82	w.			0							drizzling	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.39	644.9																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.16	766.0	30.18	766.6	68.5	20.3	85	s.	2.7	1.2			10			0	0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.53	750.0	29.58	751.2	48.2	9.0	76	nw.	20	9			9						Oversergent Fischer.
Fanoe	29.76	756.0	29.78	756.5	53.4	11.9	71	nw.	16	7			5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.76	756.0	29.81	757.1	46.4	8.0	93	sw.	4	2			8						A. O. Thorlacius.
Thorshavn	29.98	761.5	30.00	762.1	48.6	9.2	72	nw.	4	2			2						Overloerer Bergh.
Vestervig	29.68	753.8	29.77	756.1	50.5	10.3	51	nw.	9	4			1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.78	756.4			92.7	33.7		ne.	6.0	2.7			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.56	750.8	30.20	767.0	67.6	19.8	72	sse.			1		10		se	0.244	6.2	raining	M. Labroue, Director
Alençon, Normal School	29.76	756.0	30.28	769.0	60.8	16	91	sw.			1		n		ne.	0	0		M. Nicot, Director.
Avignon, Normal School	30.00	762.0	30.08	764.0	70.9	21.6	49	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.60	751.9	30.15	765.8	61.3	16.3	58	ssw.			1		5 kn		sw.	0.205	5.2	cloudy	M. Saillard, Director
Beauvais, Normal School	29.87	758.6	30.13	765.3	60.8	16	67	se.			1		2		w.	0.059	1.5	slightly cl'dy	M. Frère Eugène Marié.
Besançon, Normal School	29.21	742 0	30.10	764.6	62.6	17	59	ne.			1					0.154	3.9		M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.13	765.2	70.2	21.2	65	sw.			1		8			0.024	0.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.59	751 5	29.73	755.2	66.2	19	71	n.			2		k		n.	0.47	12.		M. Malet, Director.
Brest, Naval Observatory	29.85	758.3	30.10	764.5	63.7	17.6	84	sw.			2		9		sw.	0.008	0.2		M. de Kermarès, Dir.
Caen, Normal School	30.00	762.1	30.09	764.2	65.5	18.6	75	n.			0.5		2		n.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.83	757.7	30.15	765.7	62.4	16.9	63	e.			2		10		nw.	0.354	9.0	covered	M. Judot, Director.
Charleville, Normal School	29.61	752.2	30.12	765.1	60.8	16	55	n.			1		5			0.35	9.	½ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.77	730.7	30.10	764.5	64.2	17.9	67	n.			1		8			0.039	1.0		M. Alluard, Director.
Cluny, Normal School	29.32	744.6	30.16	766.0	65.7	18.7	56	e.			1				e.	0.606	15.4		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744 2	30.16	766.1	56.5	13.6	64	w.			4		5 kn	w.	w.	0.850	21.6	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.91	759.7	66.2	19	43	n.			6		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.90	734.1	30.00	761.9	69.1	20.6	39	nw.			8		0			0	0		M. Kina, Director.
Grenoble. Normal School	29.33	744.9	30.08	763.9	68.0	20	58	nnw.			1		ck		n.	0.087	2.2		M. Ablard, Directoor.
Guéret, Normal School	28.56	725.5	30.10	764.4	61.9	16.6	67	s.			1		5 ck		s.	0.16	4.	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.80	756.8	30.07	763.8	63.3	17.4	68	s.			2		5		s.	0.20	5.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.55	750.6	30.18	766.5	72.1	22.3	61	sw.			1		0			0.035	0.9	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	762.0	30.10	764.6	65.5	18.6	77	sw.			1		10		ssw.	0.504	12.8	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.10	739.0	30.14	765.5	62.2	16.8	59	nnw.			2		mist			0.020	0.5	fair	M. André, Director
Mans, Normal School	29.84	758.0	30.15	765.8	61.5	16.4		sw.			1		5		s.	0.051	1.3	cloudy	M. Richard, Director
Marseille, Observatory	29.75	755.7	30.02	762.5	71.6	22.0	36	nw.			8		0			0	0		M. Stephan, Director.
Montlouis	24.95	633.8	29.80	756.8	51.4	10.8	37	e.	5.6	2.5			6			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.1	30.03	762.8	74.8	23.8	66	nw.			6		5	wnw.		0	0	cloudy	M. Galzin, Director.
Nantes, Observatory	29.98	761.5	30.14	765.6	62.4	16.9	86	sse.			0–1		10 n		ssw.	0.177	4.5		M. Larocque, Director.
Perpignan, Observatory	30.00	762.0	30.11	764.7	75.2	24.0	36	w.	15.0	6.7			2	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.3			40.6	4.8		nw.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.03	737.3	30.07	763.7	69.8	21	68	n.			1		2 k		n.	0.024	0.6	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.29	642.3			46.4	8.0	88	wnw.			1		8			0.209	5.3		M. Alluard.
Rochefort, Naval Obs'y	30.08	763.9	30.11	764.7	68.0	20.0	65	calm			0		5		w.	0.20	5.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.70	754.4	29.91	759.7	65.1	18.4	98	wsw.			1		5	wsw.	wsw.	0.16	4.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.98	710.7	30.13	765.4	53.6	12	96	nw.			1		10		ne.	0.661	16.8	raining	M. Seger, Director.
Rouen, Normal School	30.05	763 2	30.10	764.4	62.6	17	80	sw.			2		5	e.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	30.00	761.9	30.16	766.1	58.1	14.5	87				1		10			0	0		M. Renou, Director.
Toulouse, Observatory	29.46	748.3	30.19	766.8	72.1	22.3	52	nnw.			4		5	nw.		0	0	cloudy	M. Baillard, Director.
Tours	29.97	761.1	30.14	765.6	63.7	17.6	74	sw.			1		5	sw.	sw.	0.898	22.8	cloudy	M. de Tastes.
Versailles, Observatory	29.65	753.2	30.15	765.7	60.1	15.6	79	n.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.01	762.3	30.16	766.1	72.0	22.2	62	nw.	4.0	1.8			4 k	n.	w.	0.016	0.4		M. Cartier, Director.
German.																			
Ansbach	28.58	725.8	30.02	762.4	53.6	12.0	64	nw.			6		8	nw.		0.350	8.9		Prof. Jnedt.
Bamberg	29.11	739.5	29.96	760.9	57.7	14.3	60	nw.			2		5 k		nw.	0.425	10.8	raining	Prof. Dr. Hoh.
Berlin	29.52	752.3	29.76	755.9	57.2	14.0	66	nw.			5		3			0.094	2.4		Dr. Lensch.
Breslau	29.19	741.3	29.71	754.6	54.5	12.5	69	wnw.			8		9			0.591	15.0		Royal University Obs'y.
Carlsruhe	29.65	753.2	30.11	764.9	57.2	14.0	71	sw.			3		10	nw.		0.004	0.1		Albert Senz.
Cassel	29.26	743.2	29.97	761.3	52.5	11.4	80	nw.			7		8	wnw.		0.469	11.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.8	30.04	763.0	58.1	14.5	59	nw.			1		8			0.854	21.7		Physical Society.
Friedrichshafen	28.69	728.8	30.10	764.6	57 9	14.4	70	sw.			3		9	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.75	755 7	29.84	758.0	51.6	10.9	99	nw.			7		3			0.043	1.1	squally	E. Preller.
Kiel	29.77	756.2	29.79	756.6	54.0	12.2	56	w.			6		6			0.327	8.3		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.47	748.4	29.89	759.1	53.8	12.1	71	nw.			4		8	wnw.		0.768	19.5	sprinkling	H. Leppig, Asst.
Magdeburg	29.67	753.6	29.85	758.3	55.2	12.9	59	wnw.			4		5	wnw.		0.256	6.5		Weather Observatory.
Memel	29.63	752 5	29.67	753.7	49.3	9.6	60	se.			4		10 cs						Issermann.
Munich	28.19	716.0	30.05	763.3	53.8	12.1	65	nw.			6		9	w.		0.008	0.2		Central Station.
Neufahrwasser	29.58	751.4	29.60	751.8	45.3	7.4	82	se.			1		10			0.059	1.5	light rain	A. Lothes.
Neustadt, Palatinate	29.52	749.8	30.05	763.2	58.5	14.7	55	calm			0		10			0	0		Dicknether.
Stuttgart	29.12	739.7	30.02	762 4	55 0	12.8	68	w.			1		6	w.		0.068	0.2		Prof. Dr. Schoder.
Wustrow	29.63	752.7	29.66	753 3	53.6	12.0	54	nw.			6		10 ks			0.205	5.2		Profs. Brandes & Reimer
Greek.																			
Athens	29.58	751.2	29.95	760.6	82.8	28.2		sw.			1.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.73	755.1	29.78	756.4	83.6	28.7	72	wsw.	30.0	13.4			2	wsw.		0	0	d. clouds	
Deesa	29.25	743.0	29.71	754.7	94.5	34.7	39	wsw.	4.0	1.8			3	w.		0	0	d. clouds	
Bombay	29.83	757.8	29.87	758.7	77.7	25.4	82	nw.	10.0	4.5			10		nnw.	0.17	4.3	overcast	
Poona, Yarrowda	28.01	711.5	29.90	759.4	70.4	21.3	81	sw.	19.0	8.5			10			0.11	2.8	overcast	
Trichinopoly	29.54	750.4	29.82	757.4	89.6	32.0	56	wnw.	0.1	0.04			7			0	0	d. clouds	
Bellary	28.31	719 2	29.76	755.8	87.5	30.8	36	w.	12.0	5.4			1			0	0	blue sky	
Belgaum	27.33	694.1	29.88	758.9	73.3	22.9	68	wsw.	9.0	4.0			6	e.	w.	0	0	d. clouds	
Lahore	28.95	735.3	29.67	753.7	91.6	33.1	40	calm	0	0			0			0	0	blue sky	
Roorkee	28.76	730.4	29.63	752.6	89.8	32.1	64	calm	0	0			0			0	0		
Agra	29.14	740.1	29.68	753.9	97.1	36.2	25	w.					0			0	0	blue sky	
Nagpur	28.68	728.4	29.71	754.6	83.7	28.7	75	calm	6.0	2.7			8			0	0	d. clouds	
Jubbulpore	28.38	720 8	29.71	754 6	87.8	31.0	54	e.	8.0	3.6			3	e.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.27	743.5	29.64	753.0	85.1	29.5	70	calm	0	0			0			0	0	blue sky	
Allahabad	29.37	745.9	29.68	753.7	85.5	29.7	75	calm	0	0			0			0	0	blue sky	
Patna	29.49	749.1	29.68	753.8	87.2	30.7	79	calm	0.9	0.4			6			0	0	d. clouds	
Hazaribagh	27.72	704.0	29.70	754.5	82.0	27.8	73	calm	4.1	1.8			10			0	0	overcast	
Cuttack	29.63	752.6	29.71	754.7	87.3	30.7	74	calm	0	0			5			0	0	d. clouds	
Calcutta, Alipore	29.72	754.8	29.74	755.3	85.5	29.7	84	sw.	2.0	0.9			6		s.	0	0	d. clouds	
Dhubri	29.61	752.0	29.72	755.0	77.5	25.3	90	nne.	2.3	1.0			10	sse.		0.44	11.2	overcast	
Chittagong	29.69	754.1	29.78	756.4	81.7	27.6	87	ene.	3.0	1.3			6			0	0		
Sibsagar	29.43	747.6	29.77	756.1	80.5	26.9	85	sw.	2.0	0.9			10	w.	w.	1.22	31.0	d. clouds	
Jeypore	28.30	718.9	29.71	754.5	93.7	34.3	30	nw.	3.5	1.6			1		nw.	0	0	blue sky	
Zanzibar	30.06	763.5			80.7	27.1	72	nnw.	4.4	2.0			4		wnw.	0	0	d. clouds	
ITALIAN.																			
Udine	29.37	745.9	29.76	756.0	71.6	22.0	58	calm	0	0			9			0.732	18.6		Prof. Giovanni Clodig.
Milan	29.32	744.6	29.82	757.4	75.9	24.4	16	nnw.	18.1	8.1			0			0	0		Prof. G. V. Schiapparelli
Padua	29.66	753.4	29.77	756.1	68.5	20.3	78	sw.	5.6	2.5			3			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.3	29.84	757.8	72.7	22.6	44	wnw.	0	0			0			0	0		Prof. F. F. Denza.
Genoa	29.63	752.5	29.81	757.2	75.9	24.4	37	nw.	6.3	2.8			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.99	711.0	29.86	758.5	69.4	20.8	48	nw.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.74	755.5	29.79	756.7	72.5	22.5	77	n.	15.4	6.9			6	sw.		0	0		Prof. Luigi Guidi.
Florence	29.56	750.9	29.81	757.2	76.1	24.5	48	sw.			2		6	sw.		0	0		Prof. Costantino Pittei.
Leghorn	29.66	753.7	29.76	755.8	74.5	23.6	62	w.	15.0	6.7			4			0	0		Prof. P. Monte.
Rome	29.69	754.0	29.85	758.3	77.4	25.2	60	ssw.	14.3	6.4			9	sw.		0	0		Prof. P. Tacchini.
Lecce	29.66	753.3	29.90	759.5	78.1	25.6	48	w.	11.2	5.0			2			0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.9	29.96	760.9	77.4	25.2	67	ssw.	2.5	1.1			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.78	756.5	29.97	761.3	79.0	26.1	41	nw.			4		1	s.		0	0		Prof. A. Pacinotti.
Palermo	29.76	755.9	30.00	762.0	78.6	25.9	62	wsw.	8.1	3.6			1			0	0		Prof. G. Cacciatore.
Syracuse	29.91	759.6	29.95	760.7	84.4	29.1	60	e.	3.8	1.7			3	wsw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.41	747.0	29.92	759.9	73.4	23.0	72	ssw.	6.3	2.8			6	sw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.95	760.6	29.99	761.6	59.1	15.1	98	e.			4	0	2 k		sw.	0.516	13.1	clear	H. Hattori.
Awomori	29.91	759.7	29.95	760.7	54.3	12.4	91	sse.	4.7	2.1		0	0			0.020	0.5	clear	K. Ogawa
Hamamatsu	29.87	758.7	29.97	761.2	64.8	18.2	85	nw.			2	0	2 s			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.06	763.6	30.08	763.9	66.0	18.9	60	calm			0	0	0			0	0	clear	G. Miyanonaga.
Kanazawa	29.94	760.4	30.04	762.9	60.0	15.6	77	se.	7.9	3.5		0	7 ck			0.050	1.3	cloudy	S. Endo.
Kioto	29.85	758.2	30.02	762.6	57.9	14.4	83	n.	1.9	0.8		0	0			0	0	clear	M. Tojima.
Kochi	30.01	762.3	30.04	762.8	64.0	17.8	73	nw.	3.1	1.3		0	0			0	0	clear	K. Kusunose.
Miasaka	30.04	762.9	30.06	763.6	64.0	17.8	83	nnw.			2	0	0			0	0	clear	K. Masusaki
Miyako	29.89	759.3	30.00	762.1	57.1	13.9	97	calm	0	0		1 c	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.91	759.7	30.11	764.8	63.1	17.3	75	calm	0	0		0	0			0	0	clear	S. Takehayashi
Niigata	29.97	761.2	30.00	762.0	62.7	17.1	95	se.	2.5	1.1		0	0			0.173	4.3	clear	Satoo & Tomikawa.
Nobiru	29.96	761.1	29.98	761.5	61.0	16.4	95	e.	4.4	2.0		0	2 s			0	0	fair	Yoslino & Midzushina.
Numazu	29.94	760.5	29.97	761.2	68.1	20.1	73	ese.			2	0	1 s			0	0	clear	R. Kaneda.
Osaka	30.02	762.5	30.03	762.9	63.0	17.2	79	e.	2.5	1.1		0	0			0	0	clear	H. Omura.
Sakai	30.04	763.0	30.05	763.2	57.4	14.1	83	calm			0	0	1 ks		w.	0	0	clear	Yamawchi & Sakamoto.
Shimonoseki	29.95	760.8	30.10	764.5	64.7	18.2	75	calm			0	0	0			0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	29.90	759.5	29.98	761.4	65.7	18.7	75	ne.	5.7	2.5		0	8 s		w.	0	0	cloudy	The Staff.
Wakayama	29.97	761.2	30.02	762.5	61.6	16.4	84	e.	1.1	0.5		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	73.0	22.8	67	ese.	18.5	8.3		0	5 k		e.	0.16	4.1	fair	The Staff.
MEXICAN.																			
Leon	24.25	615.9	29.87	758.7	59.9	15.5	87	sse.	0.9	0.4			10ck;ks			1.020	25.9	covered	Prof. M. Leal.
Mazatlan	29.47	748.4	29.72	755.0	76.0	24.4	95	ese.	5.2	2.3			10 n			0.079	2.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata					78	25.6	90	ne.			1	0	4 s		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.12	765.0	30.12	765.0	58.3	14.6		w.			4					0.031	0.8		
Groningen	29.92	760.0	29.98	761.4	54.1	12.3		nnw.			4					0.094	2.4		
Helder	30.03	762.8	30.03	762.8	55.6	13.1		nw.			4					0	0		
Hellevoetsluis	30.08	764.0	30.08	764.0	59.2	15.1	58	nw.			3					0.024	0.6		
Utrecht	30.03	762.7	30.08	763.9	59.0	15.0	65	nw.			2		5			0.012	0.3	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	760.0			81.1	27.3	74	nne.	0	0			7			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.80	756.8	29.86	758.4	48.6	9.2	51	nnw.	18.6	8.3			1			0.054	16.6		
Brono	29.74	755.4	29.78	756.4	47.1	8.4	67	sw.			6		10			0.224	5.7		
Christiania	29.54	750.4	29.69	754.1	51.6	10.9	52	n.	13	6			4			0.130	3.3		
Gjesvær	29.45	748.1	29.48	748.7	42.6	5.9		s.			2		10						
Lodingen	29.51	749.5	29.56	750.7	43.9	6.6	87	sw.			7		10			0.031	0.8	foggy	
PORTUGUESE.																			
Angra, Azores					70.3	21.3	92	wsw.	4.9	2.2			8			1.614	41.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.18	766.5	30.26	768.7	75.7	24.3	71	s.	2.5	1.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	759.0	30.21	767.4	68.0	20.0	86	sw.	9.4	4.2			9			0	0		The Staff.
Ponta Delgada, Azores	29.81	757.1	29.88	758.9	72.0	22.2	91	sw.	22.4	10.0			10			0.236	6.0		
Saint Paul de Loando	29.80	756.9	30.00	762.0	76.8	24.9	79	wsw.			2		10			0	0		
San Salvador, Congo	28.14	714.8	29.98	761.4	79.2	26.2	61	n.			1		10						
Serra da Estrella	25.49	647.5	30.16	766.1	58.3	14.6	74	w.	4.3	1.9			3			0.354	9.0		
RUSSIAN.																			
Akmolinski	28.91	734.3	29.93	760.2	79.7	26.5	22	s.	2	1		0	0			0	0		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	39.2	4.0	48	nne.	4	2		1 cs	0			0	0		Capt. Sselliwerstow
Ashurada	29.98	761.6	29.89	759.2	78.6	25.9	74	wnw.	11	5		0	6 k			0	0		
Astrakhan	30.00	761.9	29.93	760.1	79.9	26.6	34	s.	11	5		0	3 s			0	0		Capt. Wisganow.
Baku	29.93	760.2	29.88	759.0	75.7	24.3	72	s.	13	6		0	0			0	0		
Barnaul	29.66	753.3	30.15	765.8	60.4	15.8	42	calm	0	0			0			0	0		Meteorological Obs'y
Bieloaersk	29.37	740.1	29.86	758.4	33.8	1.0	80	calm	0	0			10 s			0	0		
Dorpat	29.54	750.3	29.78	756.5	47.5	8.6	63	ese.	2	1		c	10 ks			0	0		Observatory.
Ekaterinburg	28.80	731.5	29.74	755.4	57.2	14.0	36	wsw.	18	8		0	0			0	0		Meteorological Obs'y.
Elissawetgrad	29.30	744.1	29.74	755.4	58.5	14.7	54	w.	13	6		2 ck	0			0.020	0.5		
Irkutsk	28.71	729.3	30.37	771.4	49.3	9.6	76	calm			0		7			0.020	0.5		
Kasalinsk					80.2	20.8	28	sse.	4	2		0s	1 k;s						
Kasan	29.56	750.7	29.82	757.5	53.6	12.0	47	ssw.	4	2		0	5 n			0	0		Observatory.
Kem	29.82	757.5	29.87	758.8	41.0	5.0	48	sw.	4	2		0	8 ks			0	0		
Kertch	29.80	756.8	29.82	757.4	69.1	20.6	73	calm	0	0		0	5 k			0.398	10.1		Lagorio & Sastyres.
Kieff	28.89	736.4	29.62	752.4	50.0	10.0	74	wnw.	9	4			10ks;n			0.094	2.4		Observatory.
Koslov	29.08	738.5	29.56	750.9	61.0	16.1	86	ssw.	4	2			10 n			0.398	10.1		
Libau	29.64	752.8	29.66	753.4	50.7	10.4	58	sse.			3		10			0	0		E. Quaas.
Lugan	29.45	747.9	29.65	753.0	67.1	19.5	60	wsw.	18	8			10			0.157	4.0		Meteorological Obs'y.
Moscow	29.25	743.0	29.73	755.1	46.9	8.3	63	nnw.	2	1			10 n					light rain	Meteorological Obs'y
Nikolaiev	29.72	754.9	29.79	756.7	70.9	21.6	40	w.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					42.1	5.6	86	calm	0	0		0	0						Iwanow.
Pekin, China	30.05	763.3	30.19	766.9	63.0	17.2	29	nw.	7.8	3.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.61	752.0	29.94	760.4	83.5	28.6	22	calm	0	0		0	0						
Petrozavodsk	29.63	752.5	29.83	757.6	38.3	3.5	77	se.	9	4		8 ck	0			0.063	1.6		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.15	740.4	29.64	752.9	52.5	11.4	55	se.	13	6			10 n			0	0		
Poti	29.90	759.4	29.93	760.2	78.3	25.7	66	nnw.	4	2		0	0			0	0		
St. Petersburg	29.77	756.2	29.80	756.8	47.3	8.5	60	nnw.	4	2			9 kn			0	0		Central Physical Obs'y.
Samarkand	27.57	700.3	29.93	760.1	77.9	25.5	39	calm	0	0		0	0			0	0		
Semipalatinsk	29.52	749.8	30.17	766.2	64.6	18.1	31	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.68	753.8	29.88	759.0	72.9	22.7	66	nw	7	3		0	2 s			0	0		
Staroi Bykhov	29.13	739.8	29.68	753.8	51.8	11.0	46	e.	7	3		cs	7 k			0	0		
Tashkend Laboratory	28.35	720.0	29.93	760.1	81.7	27.6	28	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.58	725.8	29.96	761.0	67.5	19.7	80	nnw.	2	1			10 n			0.264	6.7	thund'r st'm	Physical Observatory.
Vernoe	27.53	699.3	29.98	761.4	64.0	17.8	58	calm	0	0		0	0			0	0		
Viatka	29.11	739.5	29.75	755.6	44.6	7.0	74	w.	4	2			9			0.091	2.3		
Warsaw	29.15	740.4	29.58	751.3	43.0	6.1	91	e.	4	2			10 n			0.322	8.2	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.10	764.5	30.39	772.0	41.4	5.2	68	ese.	2	1			1			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.98	761.6	30.09	764.2	74.5	23.6	69	sse.	11.9	5.3		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.05	763.2	30.11	764.7	80.6	27.0	51	se.	1.6	0.7		2	0	ne.		0	0	almost clear.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.23	691.6	30.11	764.9	70.3	21.3	57	w.	3.8	1.7			5			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.95	710.0	30.09	764.2	79.3	26.3	51	sw.	7.6	3.4		4	0	rnw.		0.031	0.8	light clouds	The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.08	763.9	86.2	30.1	50	wsw.	3.8	1.7		2	4	ne.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.34	745.3	30.10	764.6	64.4	18.0	87	s	1.6	0.7		4 n	2 n	w.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.19	741.5	30.07	763.8	64.9	18.3	93	s.	13.0	5.8			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.88	758.9	29.94	760.5	78.1	25.6	86	ese.	3.4	1.5		ck	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.7	29.93	760.2	82.0	27.8	80	nne.	0	0		1 cs	2 ks			0.039	1.0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.16	766.1	76.5	24.7	73	w.	8.9	4.0		5	4	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.97	761.2	30.06	763.5	79.9	26.6	83	calm	0	0		5 cs	2 k	se.	se.	0	0	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.74	755.5	29.78	756.5	41.0	5.0	57	s.			4		10			0	0		
Umea	29.72	754.8	29.77	756.1	47.1	8.4	48	s.			2		4			0	0		
Hernosand	29.65	753.0	29.70	754.3	47.8	8.8	53	ne.			4		5			0.228	5.8		
Stockholm	29.47	748.6	29.65	753.1	49.3	9.6	64	ene.			2		10			0	0		
Wisby	29.50	750.8	29.62	752.3	46.8	8.2	89	se.			4		10					raining	
Sub-series.																			
Upsala	29.55	750.5	29.63	752.7	50.2	10.1	66	ese.	4.5	2.0			8			0.024	0.6		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.68	728.5	30.09	764.2	61.2	16.2	62	ne.			2		3			0.752	19.1		The Observatory.
Turkish.																			
Constantinople			29.95	760.7	80.2	26.8	48	sw.	9	4.0			2		sw.	0	0		The Observatory.
Valona			30.08	764.1	77.5	25.3		sw.			3		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.1	83.3	28.5	59	ne.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.66	792.6			72	22.2	82	calm			0		9 n		w.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.15	765.8	30.23	767.8	55	12.8	80	s.	1	0.4			10s; fg			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.08	764.0	56	13.3	93	ne.	4	1.8			10 s			0.03	0.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.85	758.2	46	7.8	65	se.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.26	692.4	30.11	764.8	37	2.8	56	s.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.85	732.8	30.02	762.5	62.5	16.9	100	e.	6	2.7			fg.			0.06	1.5	dense fog	Edward A. Beals.
Atlantic City, New Jersey	30.15	765.8	30.16	766.1	63	17.2	84	e.	13	5.8			10 s		ne.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.02	762.5	70.0	21.1	90	calm	0	0			10 n			inap.	inap.	light rain	D. J. Young.
Baltimore, Maryland	30.14	765.5	30.19	766.8	58	14.4	86	ne.	6	2.7			10 s			0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.16	766.1	30.18	766.6	62.0	16.7	78	e.	17	7.6			10 s		e.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	30.33	770.4	30.35	770.9	41.0	5.0	92	se.	6	2.7			10 n			0	0	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.55	725.2	30.14	765.5	52.0	11.1	86	nw.	1	0.4			10 s			inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.33	694.2	30.17	766.3	40	4.4	59	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.34	719.8	30.14	765.5	40	4.4	96	n.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.21	767.3	30.24	768.1	59	15.0	87	ne.	9	4.0		3 ck	7 s	w.	e.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.95	760.7	51	10.6		se.	2	0.9		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.08	764.0	30.22	767.6	50.5	10.3	90	w.	2	0.9		7 cs	0			0	0	fair	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.03	762.7	60.0	15.6	75	n.	3	1.3		5 cs	0	sw.		0	0	fair	E. C. Imlay.
Buffalo, New York	29.40	746.7	30.13	765.3	57.2	14.0	74	e.	4	1.8			10 s		sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.17	715.5	30.15	765.8	36	2.2	92	s.	2	0.9		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.58	751.3	29.98	761.5	54.1	12.3	73	n.	6	2.7		0	6 ks		sw.	0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.66	753.4	29.86	758.4	63.0	17.2	77	s.	4	1.8		0	sk.			0	0	dense smoke	O. D. Stewart.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	68.0	20.0	90	ne.	28	12.5			10 ks		ne.	0.10	2.5	cloudy	A. K. Alderson.
Cape May, New Jersey	30.13	765.3	30.16	766.1	61.0	16.1	93	ne.	6	2.7			10 s			0	0	threatening	W. E. Smith.
Cape Mendocino, California	29.13	739.9	29.81	757.2	73	22.8	43	calm			0	0	sk.			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	80.0	26.7	90	e.	9	4.0		7 cs	0			0	0	fair	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	70.0	21.1	94	n.	8	3.6			10 s		n.	0.11	2.8	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.03	762.7	63.0	17.2	93	ne.	8	3.6			10 s		e.	0.15	3.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	30.00	762.0	64.5	18.1	97	ne.	3	1.3			10ks; fg.		se.	0.83	21.1	cloudy	B. L. Gouldin.
Cheyenne, Wyoming	24.17	613.9	30.03	762.7	41.7	5.4	60	nw.	8	3.6			10 s		n.	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.23	742.4	29.92	760.0	62.0	16.7	87	se.	2	0.9		3 cs	0	se.		0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.10	764.5	30.12	765.0	65	18.3	93	ne.	7	3.1			10 n		ne.	inap.	inap.	light rain	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	29.99	761.7	64.9	18.3	84	se.	2	0.9		0	9 k		se.	0.10	2.5	cloudy	L. Dunne.
Cleveland, Ohio	29.34	745.2	30.06	763.5	59.5	15.3	81	se.	7	3.1		7 k	0	s.		0.12	3.0	fair	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.19	741.4	30.03	762.7	62	16.7	78	e.	8	3.6			10 s		sw	0.05	1.3	cloudy	D. Cuthbertson
Concho, Fort, Texas	28.20	716.3	30.10	764.5	46.8	8.2	86	nw.	4	1.8		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T	26.97	685.0	30.09	764.3	31	— 0.6	71	e.	4	1.8		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.24	742.7	29.89	759.2	57	13.9	93	se.	4	1.8		0	9 s; fg		se.	0.09	2.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.99	761.7	42	5.6	70	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.08	764.0	43.5	6.4	43	ne.	5	2.2		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.53	648.5	30.09	764.3	38	3.3	82	ne.	4	1.8		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.14	765.5	30.16	766.1	65	18.3	93	ne.	17	7.6			10 n		ne.	0.01	0.3	light rain	T. S. Townsend.
Denver, Colorado	24.88	631.9	29.99	761.7	46.0	7.8	80	sw.	3	1.3		0	7 s		nw.	0.13	3.3	fair	F. M. Neal.
Des Moines, Iowa	29.03	737.3	29.92	760.0	50	10.0	93	e.	2	0.9			10 s		e.	0.29	7.4	cloudy	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.03	762.7	62.0	16.7	90	e.	4	1.8		0	6 s		sw.	0.28	7.1	fair	E. R. Brace.
Dodge City, Kansas	27.43	696.7	29.98	761.5	44	6.7	76	nw.	12	5.4			10 s		nw.	0.08	2.0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.22	742.2	29.92	760.0	59.5	15.3	93	n.	1	0.4			fg			0.10	2.5	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.35	745.5	30.09	764.3	52.5	11.4	86	calm	0	0			10 s		ne.	0.01	0.3	cloudy	N. B. Conger.
Eastport, Maine	30.07	763.8	30.14	765.5	53.0	11.7	80	calm	0	0		0	fg; sk			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	30.00	762.0	41	5.0	92	nw.	12	5.4		0	1 s			0.07	1.8	clear	J. C. Rickli.
El Paso, Texas	26.37	669.8	30.02	762.5	48.0	8.9	80	e.	4	1.8		7 cs	0	e.		0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.38	746.2	30.08	764.0	61	16.1	78	s.	13	5.8		9 cs	0	w.		0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.39	746.5	30.05	763.3	52.0	11.1	100	n.	9	4.0		2 ck	7 s	n.	n.	0.02	0.5	cloudy	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	64	17.8	63	ne.	16	7.2		2 c	hz.	sw.		0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.32	744.7	29.98	761.5	60.0	15.6	90	e.	6	2.7			10 n		se.	inap.	inap.	thund'r st'm	Wm. H. Fallon.
Grant, Fort, Arizona	25.20	640.1	29.80	756.9	56.3	13.5	34	se.	21	9.4		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.93	760.2	29.95	760.7	73.0	22.8	82	e.	18	8.0			10 s		e.	2.35	59.7	cloudy	R. M. Crawford.
Helena, Montana	25.93	658.6	30.10	764.5	47	8.3	44	n.	4	1.8		0	0			0	0	clear	J. H. Jones.

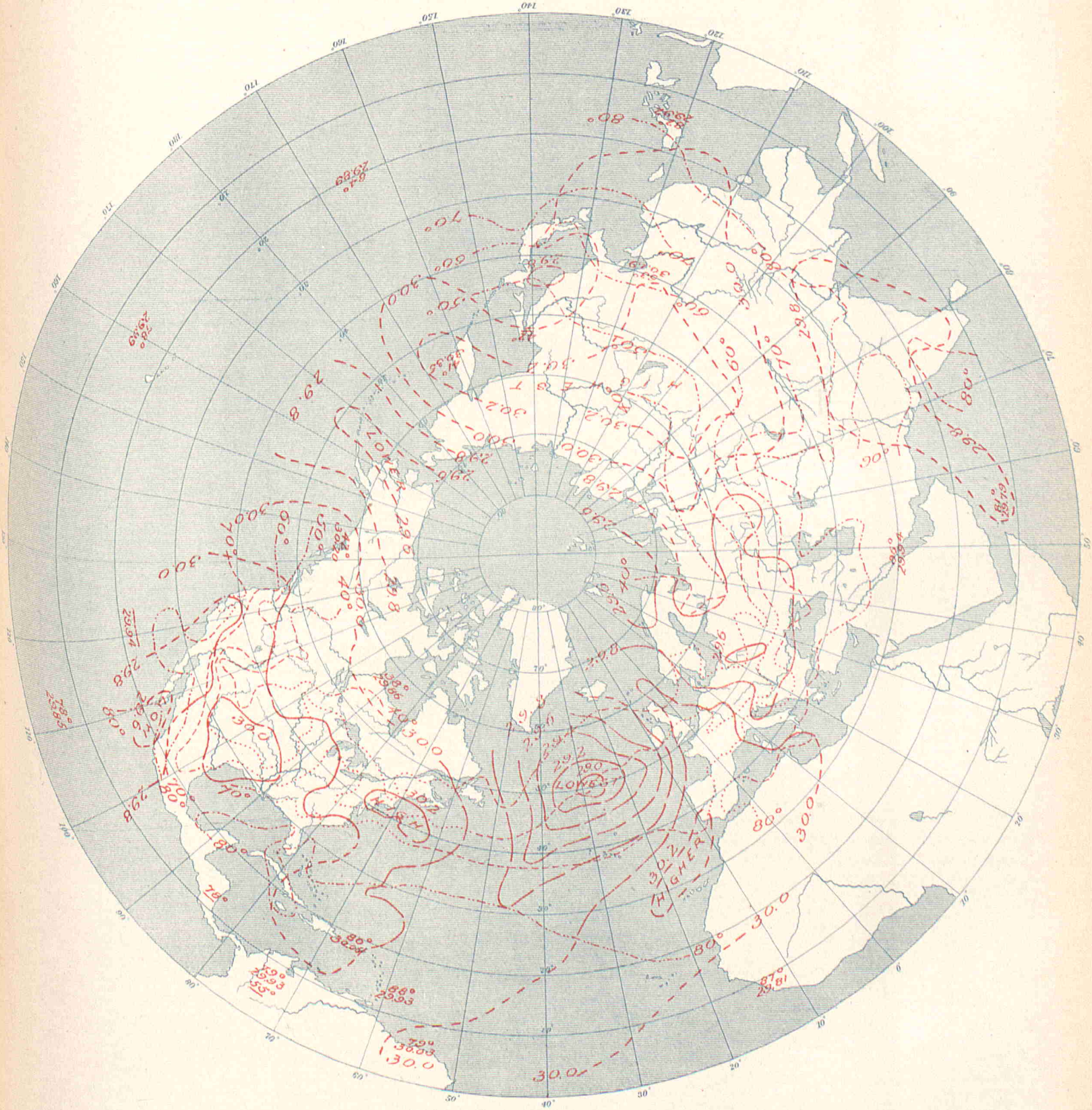
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.68	728.5	30.06	763.5	51.7	10.9	100	n.	7	3.1			10 s			0.45	11.4	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.16	740.7	29.94	760.5	63.0	17.2	90	s.	2	0.9			10 s		s.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.01	762.2	30.04	763.0	63.9	17.7	69	ne.	17	7.6		0	2 s		w.	0	0	clear	I. A. Reed.
Jacksonville Florida	29.91	759.7	29.95	760.7	71.0	21.7	90	n.	5	2.2		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.30	744.2	29.95	760.7	53.0	11.7	86	sw.	4	1.8			10 k		sw.	inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	29.90	759.4	29.92	760.0	82	27.8	80	s.	8	3.6		3 k	0	s.		0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	70.0	21.1	84	ne.	28	12.5			10 s			0.08	2.0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.00	736.6	30.02	762.5	62	16.7	89	ne.	3	1.3		0	8 s		s.	0.03	0.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.19	741.4	29.96	761.0	58	14.4	80	n.	6	2.7			10 s		n.	0.11	2.8	cloudy	S. C. Emery.
Leavenworth, Kansas	29.04	737.6	29.92	760.0	48.5	9.2	93	calm	0	0			10 s			0.31	7.9	cloudy	T. S. Outram.
Lewiston, Idaho	29.22	742.2	30.04	763.0	43.0	6.1	68	calm	0	0			sk.			0	0	dense smoke.	C. E. Butler.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	50	10.0	77	nw.	4	1.8		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.38	746.2	29.77	756.1	74	23.3	32	ne.	10	4.5		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.39	746.5	29.94	760.5	65	18.3	90	se.	3	1.3			10 s		s.	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.44	747.8	30.12	765.0	60	15.6	81	ne.	6	2.7			10 s		ne.	0.02	0.5	cloudy	Lou's Duane.
Mackinaw City, Michigan	29.41	747.0	30.06	763.5	56.2	13.4	96	e.	3	1.3		0	8 s			0.09	2.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.93	760.2	29.94	760.5	70.0	21.1	97	ne.	12	5.4			10 n		ne.	3.19	81.0	heavy rain	William Daly.
Maginnis, Fort, Montana	25.67	652.0	30.07	763.8	45	7.2	49	sw.	10	4.5		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.36	745.7	30.08	764.0	48.0	8.9	93	nw.	2	0.9			10 ks		nw.	0.03	0.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.64	752.8	29.98	761.5	52	11.1	93	w.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.96	761.0	60	15.6	93	e.	8	3.6			10 s		e.	0.04	1.0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.88	758.9	29.92	760.0	62.3	16.8	92	n.	8	3.6			10 n		n.	0.56	14.2	light rain	H. U. Jones.
Montgomery, Alabama	29.72	754.9	29.95	760.7	70	21.1	84	e.	6	2.7			10 s			0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.11	739.4	30.10	764.5	48	8.9	93	ne.			1		10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.08	611.6	30.23	767.8	44.0	6.7	65	se.	2	0.9		8 c	0			0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.37	746.0	29.94	760.5	64.0	17.8	90	e.	6	2.7			10 s		s.	0.08	2.0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	51	10.6	93	ne.	5	2.2		10 cs	0	w.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.21	767.3	30.26	768.6	54	12.2	80	se	1	0.4			10 s		se.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.93	760.2	70.0	21.1	48	n.	12	5.4		0	9 s		sw.	0	0	cloudy	M. Herman.
New York, New York	30.04	763.0	30.21	767.3	59	15.0	75	ne.	8	3.6			10 s			0	0	cloudy	H. J. Penrod.
Norfolk, Virginia	30.03	762.7	30 06	763.5	67.5	19.7	92	ne.	10	4.5			10 n		ne.	0.20	5.1	light rain	Wm. Davis.
North Platte, Nebraska	27.15	689.6	30.03	762.7	42.6	5.9	89	calm	0	0			10 s		nw.	0.26	6.6	cloudy	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	44 0	6.7	93	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.95	760.7	48.0	8.9	96	nw.	4	1.8			10 n		ne.	1.07	27.2	light rain	A. Pollak
Ocglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.85	758 2	30.17	766.3	58.0	14.4	81	s.	4	1.8		0	9k;hz		se.	0	0	cloudy	J. G. Linsley.
Palestine, Texas	29.52	749.8	30.07	763.8	53.0	11.7	80	n.	2	0.9		1 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.85	758.2	29.88	758.9	72.1	22.3	90	ne.	11	4.9			10 s		se.	0.04	1.0	cloudy	M. McGauran.
Philadelphia, Pa.	30.11	764.8	30.21	767.3	58	14.4	87	ne.	7	3.1			10 s		ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.81	452.4	29.79	756.7	14	—10.0	100	ne.			7		fg.		ne.	0	0	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.30	744.2	30.09	764.3	61.6	16.4	78	calm	0	0		7 cs	0	w.		0	0	fair	G. C. Schaeffer.
Poplar River, Montana					38	3.3	53	ne.			1	0	0			0	0	clear	M. J. Wright, jr.
Port Huron, Michigan	29.36	745.7	30.02	762.5	57.0	13.9	96	e.	1	0.4			10 s			0.11	2.8	cloudy	M. H. Perry
Portland, Maine	30.15	765.8	30.20	767.1	53.5	11.9	80	w.	2	0.9		5 cs	0	nw.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.85	758.2	29.92	760.0	53.0	11.7	86	n	3	1.3		0	sk.			0	0	dense smoke	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.90	759.4	38	3.3	40	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.20	767.1	30.23	767.8	56	13.3	93	calm	0	0		10c;cs	0	w.		0	0	cloudy	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.44	747.8	29.80	756.9	68	20.0	30	n.	6	2.7		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.36	745.7	29.91	759.7	50.7	10.4	78	n.	1	0.4		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.69	754.1	29.76	755.9	70.5	21.4	62	se.	1	0.4		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.34	745.2	29.95	760.7	51.4	10.8	76	nw.	15	6.7		1 c	4 s	se.	se.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.43	747.5	29.46	748.3	42	5.6	82	se.	16	7.2			10 s			0.04	1.0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.14	740.1	29.99	761.7	54.0	12.2	96	nw.	4	1.8		4 cs	3 s	ne.	n.	0.12	3.0	clearing	P. F Lyons.
St. Vincent, Minnesota	29.24	742.7	30.11	764.8	39	3.9	100	nw	1	0.4		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.71	653.0	29.96	761.0	57	13.9	49	e.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.68	753.9	29.75	755.6	70.0	21.1	16	e.	6	2.7		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.88	758.9	29.93	760.2	72.6	22.6	96	calm	0	0		0	fg.			0.01	0.3	clear	J. B. Marbury.
Sandusky, Ohio	29.38	746.2	30.05	763.3	61	16.1	87	s.	7	3.1		5 ck	2 s	s		0.22	5.6	fair	B. F. Hough.
Sandy Hook, New Jersey	30.18	766.6	30.21	767.3	61.0	16.1	78	e.	16	7.2		10 k	0	e.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.72	754 9	29.79	756.7	68	20.0	90	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.89	759 2	29.98	761.5	71	21.7	92	n.	8	3.6			10 ks		n.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.39	670.3	30.00	762 0	35	1.7	66	w.	3	1.3		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.79	756.7	30.03	762.7	50.3	10.2	86	nw.	4	1.8		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.84	732.5	30.06	763.5	47	8.3	86	n.	12	5.8		0	0			0	0	clear	W M. Mattingly
Sitka, Alaska	30.14	765.5	30.20	767.1	42.2	5.7	93	ne.	6	2.7		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.03	762.7	39.8	4.3	100	calm	0	0			fg.			0	0	dense fog	J. B. Campbell.
Smithville North Carolina	29.85	758 2	29.89	759.2	70.0	21.1	100	ne.	10	4.5			10 n		ne.	1.18	30.0	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.07	763.8	39	3.9	73	calm	0	0			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.24	742.7	29.91	759.7	50	10.0	82	w.	5	2.2		0	4 s		s.	0	0	fair	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.15	689.6	30.11	764.8	47	8.3	93	sw.	1	0.4		0	0			0	0	clear	Louis Dormau.
Thomas, Camp, Arizona					55	12.8	37	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.33	745.0	30.01	762.2	62	16.7	87	se.	6	2.7		7cs;ck	3 ks	s.	sw.	0.14	3.6	threatening.	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.53	750.0	29.55	750.6	42	5.6	82	nw.	20	8.9			10 n		nw.	0.40	10.2	light rain	Samuel Applegate.
Verde, Fort, Arizona					48	8.9	27	n.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.77	756.1	30.02	762.5	57.0	13.9	74	n.	3	1.3		1 c	hz.	w.		0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.07	763.8	30.18	766.6	57.1	13.9	85	ne.	6	2.7			10 n		ne	inap.	inap.	light rain	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	29.96	761.0	48.5	9.2	62	nw.	9	4.0			10 s		nw.	0	0	threatening.	F. H. Brandenburg.
Williamsport, Pa.																			B. F. Hough.
Wilmington, N. Carolina	29.87	758.7	29.92	760.0	69.5	20.8	93	ne.	7	3.1			10 n		e.	0.86	21.8	light rain	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.72	729.5	30.01	762.2	47.7	8.7	95	n.	10	4.5			10 s		n.	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.59	751 6	29.73	755.1	64.4	18.0	51	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					80	26.7		nw.			1		2 k		ne.	0	0	clear	W. H. Jackson.
Bogota, U. S. O.	22.05	560.1			55.0	12.8	67	calm	0	0		0	2 s		w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	77.6	25.3	85	n.	2	0.9			10 s			0	0	cloudy	Robert Johnstone
Paramaribo, S. A.	30.03	762.7	30.03	762.7	79	26.1	78	se.			2	0	4 k		e.	0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. O.	29.37	746.0	29.93	760.2	79	26.1	85	s.			1		fg.			0.02	0.5	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	91	se.			1	5 ck		se.		0.02	0.5	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A.	29.79	756.7	29.86	758.4	37.5	3.1	95	w.	12	5.4		3 c	3 s	w.	w.	0.10	2.5		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 15′, E. 22° 49′	29.93	760.2	82	27.8	67	ese.			1		1	ese.				sm'h		blue sky.
H. M. S. Coquette, N. 36° 09′, E. 14° 06′	30.07	763.8	79	26.1		wnw.			1		0					sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.95	760.7	78.5	25.8	84	nne.			4		3	nne.						d. clouds.
H. P. M. S. Donro, N 0° 24′, E. 7° 00′	30.03	762.7	81.0	27.2	83	sw.			4		10			½h'r	½h'r	4	sw.	raining.
H. M. S. Griffon, N. 39° 45′, W. 68° 25′	30.22	767.6	67	19.4	69	ne.			3		7	nne.				6	nne.	d. clouds.
H. M. S. Himalaya, N. 48° 50′, W. 9° 34′	29.70	754.4	65	18.3	89	s.			6		10					5	s.	raining.
H. M. S. Iris, off Port Said, Egypt	29.58	761.5	81	27.2	87	nne.			5–6		0							blue sky.
H. M. S. Tenedos, N. 51° 03′, W. 55° 35′	29.87	758.7	52	11.1	86	wnw.			2		10	nw.				2	nw.	overcast.
U. S. Navy Yard, Portsmouth, N.H.*	30.14	765.5	50	10.0	86	w.	3	1.3			8		w.	0	0			hazy.
U. S. S. Alliance, St. John, N.B	30.12	765.0	55	12.8	87	calm			0		8		calm	0	0	sm'h	n.	foggy.
U. S. S. Galena, N. 28° 53′, W. 67° 30′	30.05	763.3	80	26.7	96	wsw.			4		10		sw.			mod.	sw.	cloudy.
U. S. S. Jamestown, N. 26° 31′, W. 23° 20′	30.20	767.1	76	24.4	91	se.			2		8					sm'h	ese.	cloudy.
U. S. S. Kearsarge, Lisbon, Portugal	30.10?	764.5?	72	22.2	85	w.			3		8		calm					fair.
U. S. S. Lancaster, N. 37° 07′, W. 0° 56′	30.09	764.3	76	24.4	91	wsw.			2		2		wsw.			sm'h		fair.
U. S. S. Portsmouth, Buzzard's Bay, Mass	30.24	768.1	58	14.4	100	ne.			1		8		nw.					fair.
U. S. S. Powhatan, St. Johns N.F.	29.94	760.5	58	14.4	82	nne.			2		10		n.					cloudy.
U. S. S. Quinnebaug, N. 41° 42′, E. 7° 17′			70	21.1	95	nnw.			6		2		nnw.			r'gh	nnw.	fair.
U. S. S. Saratoga, N. 41° 12′, W. 72° 53′	30.25	768.3	58	14.4	94	ne.			2–3		8		ne.	0	0	sm'h		cloudy.
U. S. S. Swatara, Georgetown, P.E.I	30.04	763.0	60	15.6	82	wnw.			4		0			light	light	sm'h		clear.
U. S. S. Vandalia, Halifax, N.S.	30.11	764.8	53	11.7	86	nw.			1		0							clear.
U. S. S. Yantic, N. 42° 44′, W. 60° 05′	30.16	766.1	57	13.9	81	nw.			3		5					r'gh	ne	fair.
S. S. British Crown, N. 42° 23′, W. 56° 28′ †	30.08	764.0	65	18.3		n.			4		5		ne.	0	0	mod.	nne.	
S. S. British Prince, N 51° 24′ W. 30° 14′*†	29.09	738.9	57	13.9		w.			4		8		sw.	sh'rs	sh'rs	h'vy	ne.	cloudy.
S. S. Ohio, Delaware river†	30.22	767.6	60	15.6	94	ne.			2		10		ne.	0	0			cloudy.
S. S. Circassian, N. 49° 19′ W. 66° 12′	30.07	763.8	48	8.9	100	wsw.			1		3		wsw.	0	0	sm'h	s.	d. clouds.
S. S. Grecian, N. 56° 48′ W. 26° 19′	29.18?	741.2?	62	16.7	88	e			6		10			3½h'r	3½h'r	mod.	e.	foggy.
S. S. Nova Scotian, Halifax, N. S.	30.11	764.8	64?	17.8?		ne.			3		2		ne.					fair
S. S. Polynesian, Montreal, Canada	30.18	766.6	59	15.0		s.			2		0			0	0			clear.
S. S. Scandinavian, N. 52° 20′, W. 22° 31′	29.15	740.4	57	13.9		sse.			4		2		sse.	6½ hr	6½h r	con	var.	d. clouds.
S. S. Sardinian, N. 55° 42′ W. 11° 18′	29.72	754.9	55	12.8		ese.			6		9		ese.	0	0	r'gh	ese.	cloudy.
S. S. Alvo, Colon, U. S. C*.	29.95	760.7	78	25.6		w.			2		7		calm	0	0			fine.
S. S. Avilla, St. Anns, Jamaica, W.I*†	30.07	763.8	80	26.7		calm			0		10			rain	rain	sm'h		
S. S. Assyria, N. 39° 35′, W. 18° 23′	29.91	759.7	71	21.7	90	sw.			6		7		sw.	0	0	6	sw.	cloudy.
S. S. Devonia, N. 40° 25′, W. 69° 15′ *†	30.17	766.3	58	14.4		e.			2		7?		e.			sli't	e.	clear?
S. S. Dorian, Palermo, Sicily	29.93	760.2																
S. S. Carroll, N. 42° 48′, W. 67° 00′ *†	30.34?	770.6?	65?	18.3?	94	sw.			1		4		sw.	0	0	short	var.	fair.
S. S. Gallia, Queenstown, Ireland	29.79	756.7	61	16.1	94	se.			6		8		s.	shr's	shr's			squally.
S. S. Pavonia, N. 42° 48′, W. 47° 40′*	29.88	758.9	59	15.0	82	n.			4		9		ne.	2 h'r	2 h'r	mod.	cross	cloudy.
S. S. Scythia, N. 42° 03′, W. 59° 25′	30.18	766.6	61	16.1	88	n.			3		5?		n.	0	0	long	ne.	clear?
S. S. Samaria, N. 49° 50′, W. 24° 30′*	29.11	739.4	58	14.4		s.			6		5?		s.	1 h'r	1 h'r	r'gh	s.	cloudy?
S. S. Canada, N. 45° 46′, W. 53° 28′ *	29.96	761.0	57.2	14.0		nne.			4		s.		nne.	0	0	r'gh	nne.	covered.
S. S. Wisconsin, Kinsale, Ireland			62	16.7		s.			4		7		s.	6 h'r	6 h'r	r'gh	s.	hazy
S. S. Bohemia, N. 47° 10′, W. 28° 50′ †	29.20	741.7				wsw.			5		5		wsw.	2 h'r	2 h'r	long	wsw.	fair.
S. S. Gellert, Plymouth, Eng	29.98	761.5	60	15.6	71	ssw.			3		9		sw.	0	0			covered.
S. S. Rugia, N. 41° 54′, W. 62° 29′	30.20	767.1	62	16.7		n.			3		5		n.	0	0	mod.	nnw.	fair
S. S. Silesia, Hamburg, Germany			55.1	12.8		nw.			6		7		nw.	0	0			squally.
S. S. Westphalia, N. 49° 36′, W. 55° 36′	29.98	761.5	57	13.9	?	nnw.			5		7		nne.	0	0	mod.	ne.	cloudy.
S. S. Rhaetia, N. 40° 36′, W. 69° 04′			56	13.3		e.			5		8		e.	0	0	sm'h	e.	fair.
S. S. City of Paris, N. 43° 34′ W. 57° 02′*	30.12	765.0				nnw.			4		2		n.	0	0	mod.	ene.	fine.
S. S. Nessmore, N. 42° 34′, W. 62° 00′*	30.17	766.3	58	14.4	100	wnw.			4		1		nw.	0	0	mod.	nw.	clear.
S. S. Archimedes, N. 45° 30′, W. 32° 00′	29.30	744.2				wnw.			6		5		var.	½ h'r	½ h'r	high	w.	squally.
S. S. Hevelius, N. 32° 37′, W. 17° 00′*†	30.23	767.9	77	25.0		ese.			2		2		n.	0	0	long	wnw.	clear.
S. S. Teniers, N. 5° 26′, W. 27° 34′			86	30.0	66	calm			0	cs	5 k		nnw.	0.20	5.1	3	e.	d. clouds.
S. S. Sirius, N. 28° 31′, W. 19° 11′	30.20	767.1				s.			3		2		s.	0	0	long	wnw.	clear.
S. S. Chalmette, N. 37° 57′, W. 74° 30′†	30.12	765.0	66	18.9		ene.			4		9		ene.	0	0	long	ene.	cloudy.
S. S. Lone Star, N. 29° 10′, W. 80° 20′ *†	30.01	762.2	81	27.2		nnw.			1		0			0	0	sm'h		clear.
S. S. Alleghany, Gay Head, Mass†	30.29	769.4	62	16.7		e.			3		5?		se.	0	0			cloudy?
S. S. Archimede, Palermo, Sicily†	30.07	763.8	84	28.9		nw.			3		7?		nw.	0	0			clear?
S. S. City of Merida, N. 18° 38′, W. 92° 45′*†	29.94	760.5	82	27.8		nw.			5		10		nw.	2 h'r	2 h'r	high	nw.	squally.
S. S. City of Washington, N. 19° 50′, W. 90° 52′*†	29.85	758.2	81	27.2		nw.			4		10		nw.	6 h'r	6 h'r	mod.	nw.	cloudy.
S. S. Cienfuegos, Cienfuegos, Cuba, W.I *.	29.99	761.7	76	24.4		ne			1		2		e.	1 h'r	1 h'r			fine.
S. S. Canada, Beachy Head, Eng			61	16.1		s.			3		4		calm	3 h'r	3 h'r	sm'h		clear.
S. S. Denmark, New York, N. Y†	30.22	767.6	59	15.0		ne.			3		3?		ne.	0	0			cloudy.
S. S. Egypt, N. 40° 30′, W. 68° 55′	30.29	769.4	61	16.1		ene.			3		8		ene.	0	0	mod	ene.	fair.
S. S. England, N. 49° 12′, W. 28° 00′	28.96	735.6				w.			5		5		w.	4 h'r	4 h'r	mod	w.	fair.
S. S. Greece, N. 42° 14′, W. 57° 04′	30.05	763.3	61	16.1	88	nw.			5		2		nw.	0	0	sm'h	var.	d. clouds.
S. S. Helvetia, N. 49° 47′, W. 29° 53′	28.93	734.8	59	15.0	94	w.			4		8		sw.	0	0	long	sw.	cloudy.
S. S. The Queen, N. 40° 41′, W. 71° 36′			56	13.3		ene.			2		10?		calm	0	0	sm'h		clear?
S. S. Fulda, N. 50° 43′, W. 27° 39′	28.90	734.1	59.9	15.5	89	wsw.			4		10		w.	6 h'r	6 h'r	mod.	var	cloudy.
S. S. Hermann, N. 41° 00′, W. 63° 07′	30.19	766.8	64.4	18.0	85	wnw.			1		2		wnw.	0	0	mod.	wnw.	clear
S. S. Oder, N. 40° 10′, W. 69° 57′	30.24	768.1	61.7	16.5		ene.			3		6		e.	0	0	mod.	e.	fair.
S. S. Ohio, N. 48° 34′, W. 26° 48′	28.99	736.3				s.			5		8		s.	5 h'r	5 h'r	long	s.	clearing.
S. S. Rhein, N. 47° 00′ W. 34° 47′	29 38?	746.2?	60.8	16.0		nw.			6		5?		nw.	1 h'r	1 h'r	cross	nw.	cloudy.
S. S. Strassburg, N. 50° 17′, W. 15° 43′	29.33	745.0	64.5	18.1	82	s.			4		10		s.	4 h'r	4 h'r	5	sse.	hazy.
S. S. Werra, N. 47° 53′, W. 43° 31′	29.69	754.1	51.8	11.0		n.			6		8		nnw.	2 h'r	2 h'r	r'gh	nnw.	cloudy.
S. S. Weser, N. 28° 05′ W. 71° 23′	30.04	763.0				wsw.			1–2		2		sw.	0	0	sm'h		clear.
S. S. City of Augusta, N. 33° 58′, W. 76° 40′†	29.89?	759.2?				ene.			6		10?		ne.	0	0	h'vy	ne.	clear.?
S. S. Muriel, St. Thomas, W.I.	29.98	761.5	84	28.9		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 35° 56′, W. 68° 45′			74	23.3		e.			4		8		e.	¼ h'r	¼ h'r	mod	e.	cloudy.
S. S. Pennland, N. 44° 55′, W. 55° 53′			58	14.4	88	nw.			3		1		nw.	0	0	mod.	nw.	clear.
S. S. Vaderland, Antwerp, Belgium	30.11?	764.8?	60	15.6		w.			6		5		nw.	0	0			fair.
S. S. Waesland, N. 50° 12′, W. 30° 43′	29.04	737.6	58	14.4		wsw.			4		10		w.	1 h'r	1 h'r	r'gh	var.	cloudy.
S. S. P. Caland, Jersey City, N.J.	30.23	767.8	61.9	16.6	84	ne.			3									cloudy.
S. S. W. A. Scholten, N. 50° 34′, E. 00° 13′	30.15	765.8	59.5	15.3	78	nnw.			2		6		nnw.	3 h'r	3 h'r			squally.
S. S. Caracas, Curacoa, W.I *†	30.01	762.2	84.5	29.2	80	ese.			4		5		e.	0	0	light	e.	fair.
S. S. Valencia, N. 37° 42′, W. 73° 17′†	30.15	765.8	71	21.7	85	ene.			5		9		e.	0	0	h'vy	e.	cloudy.
S. S. State of Georgia, N. 43° 28′, W. 59° 01′	30.11	764.8	55	12.8		nnw.			2		0			0	0	sm'h		clear.
S. S. State of Indiana, N. 54° 53′ W. 20° 15′*†	29.50	749.3	55	12.8		ese.			8		10		ese.	20 h'r	20 h'r	r'gh	ese.	heavy rain.
S. S. State of Nevada, Glasgow, Scotland			50	13.3		ne.			3		1		e.	0	0			clear.
S. S. State of Nebraska, N. 55° 24′, W. 8° 57′.5†	29.88	758.9	57	13.9		sse.			5		5		s.	0	0	sm'h		d. clouds
S. S. Thingvalla, N. 58° 38′, W. 5° 50′			47.3	8.5		wnw.			2		2		wnw.	4 h'r	4 h'r	long	wnw.	clear.
S. S. Romano, N. 46° 33′, W. 27° 50′			62	16.7		w.			7		6		w.	sh'rs	sh'rs	h'vy	w	showery.
S. S. Salerno, N. 47° 54′, W. 30° 42′ *†	29.16	740.7	66	18.9		wnw.			5		5		nw.	1.0	25.	h'vy	wnw.	fair.
S. S. Lake Huron, N. 52° 29′, W. 53° 52′	29.81	757.2	40	4.4		n.			4		10		n.	1 h'r	1 h'r	mod.	ene.	dull.
S. S. Lake Manitoba, N. 56° 52′ W. 26° 20′	29.28	743.7	56	13.3		sse.			5		10		ese.	16 h'r	16 h'r	mod.	se.	raining.
S. S. Daniel Steinmann, Antwerp, Belgium*†	30.00	762.0	57	13.9		w.			4		7		w.	4 h'r	4 h'r			rainy.
S. S. Saxon, N. 41° 35′, W. 69° 55′ †	30.24	768.1				e.			1		7			0	0		ne.	fair.
S. S. Britannic, N. 40° 40′, W. 68° 20′ †	30.27	768.8	50	13.3		ese.			2		2		se.	0	0	sm'h		d. clouds.
S. S. Celtic, N. 51° 00′, W. 23° 49′ †	29.11	739.4	64	17.8	78	s.			5		8		sw.	6 h'r	6 h'r	mod.	w.	cloudy.
S. S. Iowa, N. 44° 55′, W. 59° 27′†	30.01	762.2	58	14.4		wsw.			3		0			0	0	sm'h		clear.
S. S. City of Alexandria, N. 24° 40′ W. 80° 38′ *†	29.94	760.5	84	28.9		ene.			4									d. clouds
Bk. Arda, N. 50° 03′, W. 17° 03′†	29.21?	741.9?				sw.			4		4		w.	0	0	r'gh	sw.	fair.
Bg. Alpheus Marshall, N. 28° 56′, W. 29° 57′*†	30.10	764.5	76	24.4	100	sse.			4		4		ssw.	0	0	long	var.	fair.
Bk. Ariadne, N. 39° 52′, W. 66° 06′	30.24	768.1	64	17.8	78	ne.			4		3		ne.	0	0	cross	ese.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, Boston, Mass †	30.17	766.3				calm			0		sk.		calm	0	0	sm'h		clear
Schr. Abbie H. Gheen, Gloucester, Mass.†	30.24	768.1	62	16.7		calm			0					0	0	long	e.	clear.
S. S. Antonio Lopez, Santander, Spain	30.14	765.5	68	20.0	82	ne.			4		5			0	0	mod.	ne	fair.
Bk. Adelaide, N. 13° 09′, W. 38° 55′*†	30.09	764.3				s.			2		0			0	0	long	e.	hazy.
Bg. Belle of the Bay, N. 23° 56′, W. 81° 15′ †	29.95	760.7				ese.			5		2		e.	light	light	sm'h	e.	clear.
S. S. Cunnonbury, N. 20° 38′, W. 66° 30′ *†	30.08	764.0				ne.			1		2		ne.	0	0	light	ne.	clear.
Bk. Ceylon, N. 33° 20′. W. 46° 23′†	29.79	756.7	79	26.1	78	ne.			3		4		se.	2 h'r	2 h'r	long	nnw	
Schr. C. R. Flint, N. 26° 08′, W. 55° 40′†	29.96	761.0	84	28.9		wsw.			3		3		wnw.	0	0	mod.	ese.	clear.
Bk. Don Justo, N. 47° 28′, W. 47° 26′						nne.			5		10		ne.	0	0	mod		overcast.
Bk. Childwall, N. 15° 06′, W. 26° 06′			82	27.8	83	ne.			2		7		ne.	0	0	sm'h		fair.
Bkt. David A. Preston, N. 43° 45′, W. 66° 40′						wsw.			3		0			0	0	sm'h		clear.
Bk. Diamant, N. 38° 10′, W. 59° 42′	30.05	763.3	70.2	21.2	81	nne.			5		4 k			0	0	4	ene.	fair.
S. Dynomine, N. 43° 40′, W. 12° 10′	29.90	759.4	66	18.9	94	s.			6		10			h'vy	h'vy	r'gh	w.	misty.
S. Dora, N. 37° 30′, W 75° 08′*†	30.08	764.0	67.1	19.5		ene.			6		6			0	0	mod.	ne.	hazy.
S. David Stewart, N. 28° 40′, W. 66° 19′†	30.00	762.0	90?	32.2?		var.			1		5		ssw.	0	0	long	ne.	
S. E. J. Spicer, Antwerp, Belgium	29.99	761.7	58	14.4	94	nw.			3		10		wnw.	8 h'r	8 h'r			squally.
Schr. Edith R. Seward, St. Simon's Island, Ga.†	29.99	761.7	74	23.3		nne.			2		9		calm	0	0			cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	29.98	761.5	71	21.7		n.			2		0			0	0			clear.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.25	768.3	54	12.2		ene.			1		10		sw.	0	0			cloudy.
S. Gatherer, N. 21° 16′. W. 37° 45′*..	30.00	762.0	83	28.3	75	nne.			4		4		n.	1 h'r	1 h'r	chop	ese.	clear.
Bg. George, Salinas, Porto Rico. W. I*†	30.04	763.0	81	27.2		ne.			1		0			0	0			clear.
Bk. Galeon, N. 30° 38′, W. 16° 25′ †	30.25	768.3	73	22.8		e.			2		8		e.	0	0		nw.	blue sky.
Bk. Grey Eagle, N. 12° 54′, W. 37° 12′						ene.			2		0			0	0	short	ne.	clear.
S. Hedwig, N 29° 05′. W. 18° 32′	30.26	768.5	75.6	24.2	83	sse.			2		9		var.	0	0	3–4	var.	overcast.
Schr. Isabel Alberto, Cedar Keys, Fla †	29.93	760.2				e.			1		8		e.	0	0			cloudy.
Bk. Johanne, N. 48° 12′, W. 43° 36′*†	29.50	749.3	56	13.3		nne.			5		5		ne.	0	0	mod.	ne.	hazy.
Schr. John L. Thomas. N. 33° 56′, W 76° 22′*†	29.90	759.4	80	26.7	87	e.			6		10		e.	4 h'r	4 h'r	h'vy	ene.	squally.
Schr. Jennie N. Huddell, Delaware Bay †	30.18	766.6	64	17.8	89	ne.			3		10		ne.	light	light			cloudy.
Bk. John H. Pearson, N. 40° 52′, E. 3° 41′						ne.			3				ne			short	ne.	cloudy.
Schr. Jas Slater, N. 5° 30′, W. 50° 35′†	30.04	763.0				nne.			3		10		calm.	0	0	sm'h	ene.	
Bg. Josefa, N. 48° 33′, W. 37° 08′ †	29.19	741.4				nw.			8		10		nnw.	8 h'r	8 h'r	hv'y	nnw.	squally.
Bkt. Kryolith, N. 48° 19′, W. 52° 12′*†	29.94	760.5				nw.			2		10		n.			mod.	cross	cloudy.
Bk. Lady Hincks, N. 24° 21′, W. 31° 40′ *†	30.10	764.5							4					2 h'r	2 h'r			
Bg. L. & W. Armstrong, N. 27° 20′, W. 67° 31′ *†	29.98	761.5				w.			2		1		wsw.	0	0	mod.	w.	clear.
S. S. Madrid, Taganrog, Russia†	29.92	760.0	68	20.0	79	se.			6		8		se.	0	0			fair.
Bk. Orpheus, N. 42° 33′, W. 56° 29′			70	21.1		w.			3		3		sw.	0	0			fair.
Schr. Rollin Sanford, N. 26° 26′, W. 82° 15′ †	29.90	759.4				ssw.			3		5		s.	0	0	sm'h		fair.
Bk. Rosalie, N. 44° 57′. W. 13° 40′*†..	29.70	754.4				ssw.			8		10		ssw.	5 h'r	5 h'r	high	ssw.	cloudy.
Schr. S. B. Hubbard, Doboy Island, Ga †	30.04	763.0	80	26.7		ne.			1		10			0	0			
Bk. Saga, N. 60° 06′, E. 19° 20′ *†	29.65	753.2	50	10.0		s.			1–4		8		var.	11 h'r	11 h'r	sm'h		rain & snow
Bgt. Sunlight, N. 22° 10′, W. 64° 36′ *†	30.06	763.5				n.			1		2		n	0	0	long	ese.	clear.
Bk. Samuel B. Hale, N. 38° 00′, W. 63° 08′*†	30.20	767.1				ene.			5		2		e.	0	0	short	ene.	clear.
Bk. Scud, N. 35° 20′, W. 70° 10′ *†	30.09	764.3	78	25.6		ese.			7		8		ene.	0	0	mod.	e.	cloudy.
Bk. St. Lawrence, N. 32° 05′, W. 61° 18′ *†	29.95	760.7				ene.			6				ene.	0	0	mod.	ene.	fine.
Bk. Tuck Sing, N. 32° 16′, W. 77° 43′*†	29.89	759.2				nne.			1		5		n.	1 h'r	1 h'r	h'vy	ne.	squally.
S. S. Tower Hill, N. 49° 47′, W. 11° 15′*†	29.58	751.3				sse.			7		7		s.			r'gh	sse.	raining.
Schr. Viola Reppard, Brunswick, Ga						nne.			2		2		nne.	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Port Camamu, Brazil	29.99	761.7	75	23.9	90	nnw.			2		8	nne.						misty.
H. M. S. Opal, St. Helena, Africa	30.17	766.3	69	20.6	90	sse.			1		5	ese.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.18	766.6	56	13.3	94	calm			0		9							d. clouds.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.98	761.6	77.4	25.2	83	ssw.			2		8	ssw.		0	0	2		gloomy.
H. P. M. S. Bengo, Landana, Lower Guinea	29.92	759.9	77.9	25.5	88	sw.			3		9	sw.		0	0	2	sw.	overcast.
U. S. S. Brooklyn, Montevideo, Uruguay*..	30.19	766.8	57	13.9	87	ne.	1	0.4			10		ne.	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.16	766.1	60	15.6	94	nnw.			1		2					sm'h		clear.
S. S. Hohenstaufen, S. 10° 57′, W. 36° 08′	30.09	764.3	77.0	25.0	92	ne.			4		5		ne.	0	0	mod.	ne.	fair.
Bk. Aureola, S. 0° 10′, W. 28° 07′ †	29.95	760.7	88	31.1		se.			5		3		se	0	0	mod.	se.	fair.
Bk. E. L. Pettingill, S. 22° 21′, W. 38° 20′*†	30.10	764.5	74	23.3		sw.			5		2		sw.	0	0	mod.	se.	
Bk. Great Surgeon, S. 38° 51′, E. 4° 00′ *†	30.30	769.6	53	11.7		wnw.			3		4		wnw.	2 h'r	2 h'r	long	wsw.	fair.
Bk. Godeffroy, S. 55° 19′, W. 62° 46′	30.04	763.0	37.2	2.9	72	sw.			6		9		sw.	0	0	mod.	sw.	cloudy.
Bkt. Louise Adelalde, Buenos Ayres, La Plata †	30.17	766.3	60	15.6		n.			1		0			0	0			clear.
Bk. Pilgrim, S. 34° 21′, E. 17° 15′*†	30.00	762.0				n.			3		3		n.	0	0	mod.	se.	clear.
Bkt. Willie, S. 12° 25′, W. 34° 45′*†	30.08	764.0	82	27.8		ene.			4		2		ene.	0	0	mod.	e.	clear.
Bk. Mohican, S. 16° 20′, W. 32° 40′..	29.96	761.0	78	25.6		ene			5		7		ene.	0	0	h'vy	ese.	cloudy.
S. S. Olbers, Rio de Janeiro, Brazil	30.14	765.5	75	23.9	81	sw.			4		3		sw.	0	0	sm'h		fine.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.06	763.5	67	19.4		n.			2		10							raining.
Bg. John Wesley, S. 8° 52′, W. 34° 49′*†	29.99	761.7	79	26.1		ne.			3		1			0	0	long	ese.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 54′, E. 135° 35′	29.78	756.4	55	12.8	74	nw.			2		3	sse				3	ssw.	blue sky.
H. M. S. Flying Fish, N. 37° 13′, E. 126° 36′	30.05	764.0	64.2	17.9	62	nnw.			2		0							blue sky.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.88	758.9	84.2	29.0	71	n.			1		4		s;sw.					d. clouds.
H. M. S. Mutine, N. 0° 50′, W. 87° 50	29.97	761.2	72	22.2		sse.			4		10					2	sse.	overcast.
H. M. S. Zephyr, N. 41° 43′, E. 139° 27′	29.81	757.2	68	20.0	100	sw.			6		4	s.						d clouds.
H. P. M. S. Tamega, Canton, China	30.04	762.9	84.2	29.0	85	nw.			1		10			½ h'r	½ h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.03	762.7	67.5	19.7	79	e.			1		10		w.	0	0			cloudy.
U. S. S. Essex, Roze Island, Corea	30.09	764.3	65	18.3	84	wnw.			2		0					sm'h		clear.
U. S. S. Hartford, Panama, Panama*	29.83	757.7	80	26.7	91	nnw.			1		2			0	0	sm'h		fair.
U. S. S. Monocacy, Che Foo, China	30.13	765.3	67	19.4	55	w.			2		2		calm			sm'h		fair.
U. S. S. Palos, N. 23° 09′, E 116° 46′	30.10	764.5	80	26.7	82	ene.			5		10		calm			r'gh	ene.	cloudy.
U. S. S. Pensacola, N. 20° 10′, E. 164° 19′ *	29.89	759.2	84	28.9	75	ene.			2–3		2		ene.	light	light	long	ene.	fair.
U. S. S. Richmond, Yokosuka, Japan	29.98	761.5	71	21.7	75	nne.			3		10		nne.	0	0			cloudy.
S. S. Columbia, N. 40° 50′, W. 124° 40′ †	29.83	757.7	57	13.9	94	nnw.			1		5		calm			sm'h	nnw.	hazy.
S. S. Oregon, San Francisco, Cal.†	29.84	757.9	63	17.2	83	calm			0									hazy.
S. S. Ancon, San Francisco, Cal.†	29.84	757.9	64	17.8	73	calm			0									hazy.
S. S. State of California, Portland, Oregon †	29.95	760.7	52	11.1	93	calm			0		0							clear.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.81	757.2	65	18.3	94	calm			0		0			0	0			clear.
S. S. Victoria, San Francisco, Cal.†	29.70	754.4	64	17.8	83	calm			0		2		wsw.					fair.
S. S. City of Pekin, Yokohama, Japan†	30.02	762.5	68	20.0	79	nne.			2		10		ne.	0	0			cloudy
S. S. City of Tokio, Hong Kong, China†	30.09	764.3	83	28.3	87	e.			4		8		ese.	10 h'r	10 h'r			rainy.
S. S. City of Rio de Janeiro, N. 34° 50′, E. 141° 40′ †	29.97	761.2	76	24.4	73	ne.			5		7		ne.	0	0	r'gh	ne.	squally.
S. S. Grenada, Panama, Panama †	29.85	758.2	80	26.7	87	ne.			1		7		e.	1 h'r	1 h'r	light	s.	cloudy.
S. S. San Blas, N. 20° 34′. W. 106° 24′ †	29.50	749.3	80	26.7		se.			9		10		se.	6 h'r	6 h'r	rg'h	sse.	cloudy.
S. S. Zealandia, N. 14° 26′, W. 160° 43′†	29.99	761.7	78	25.6	91	ne.			4		5		ne.			mod.	ne.	squalls.
S. S. San Juan, N. 19° 13′, W. 104° 05′			80	26.7		ese.			6		10 n		se.	3 h'r	3 h'r			fine.
S. Armenia, N. 5° 10′, W 113° 05′*	29.85	758.2	78	25.6	78	s.			3		5		se.	0	0	sm'h	sse.	fine.
S. Storm King. N. 21° 32′, W. 121° 45′*†	29.94	760.5				nnw.			3		10		nnw.	0	0	sm'h	nnw.	cloudy.
S. Saint David, N. 40° 52′, W. 132° 14′*†	30.05	763.3	69	20.6	90	w.			3		8		sw.	0	0	light	w.	cloudy.
S. E. B. Sutton, N. 28° 20′, W. 121° 15′*†	29.86	758.4	68	20.0	95	nw.			4		2		wnw.	0	0	sm'h	nnw.	
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.92	760.0	81.3	27.4	85	calm			0		3					sm'h		d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Iroquois, Callao, Peru	30.04	763.0	61	16.1	94	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Lackawanna, Arica, Peru *	29.96	761.0	62	16.7	77	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Onward. Callao, Peru *†	30.12	765.0	61	16.1	88	calm	.....	.....	0	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
U. S. S. Wachusetts, Callao, Peru*	30.06	763.5	60	15.6	100	calm	.....	.....	0	.....	8	.....	calm	.....	.....	.....	.....	cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	30.00	762.0	64	17.8	78	s.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.10	764.5	67	19.4	.....	se.	.....	.....	3	.....	.....	.....	.....	0	0	mod.	se.	dense fog.
S. David Crocket, S 47° 33′, W. 103° 57′*	29.82	757.4	45	7.2	84	ne.	.....	.....	3	.....	8	.....	.....	2 h'r	2 h'r	h'vy	se.	gloomy.
S. Sovereign of the Seas, S. 23° 51′, W. 88° 23′*†	30.11	764.8	66	18.9	89	nw.	.....	.....	2	.....	4	.....	nw.	0	0	long	sw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 05′, E. 56° 00′	30.14	765.5	.....	.....	.....	ese.	.....	.....	4	.....	7	ese.	.....	.....	.....	5	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.05	763.3	80	26.7	78	nnw.	.....	.....	2	.....	3	ene.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.03	762.7	78	25.6	91	nnw.	.....	.....	1	.....	2	ese.	.....	.....	.....	2	sse.	d. clouds.
H. M. S. Woodlark, Bassorah, Turkey	29.94	760.5	95.5	35.3	50	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	misty.
U. S. S. Juniata, S. 2° 20′, E. 105° 34′	30.01	762.2	84	28.9	96	se.	.....	.....	3	.....	10	.....	s.	0	0	sm'h	.....	hazy.
S. S. Galatia, N. 18° 48′ E. 87° 08′†	29.79	756.7	84	28.9	91	wsw.	.....	.....	2	.....	5	.....	w.	0	0	mod.	sw.	threatening.
S. S. Benledi, N. 12° 45′, E. 54° 15′*	29.79	756.7	81	27.2	78	n.	.....	.....	2–3	.....	0	.....	.....	0	0	mod.	sw.	hazy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 24, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.13	765.2	78.4	25.8	75	se.			1		0			0	0	clear	Roziere.
Algiers			30.12	765.0	79.2	26.2	66	calm			0		0			0	0	clear	Thève.
La Calle			30.10	764.6	79.5	26.4	66	nne.			2		2			0	0	fair	Fonfréde.
Tunis			30.10	764.5	81.0	27.2	42	n.			4		3			0	0	pretty fair	Delord.
Saida			30.16	766.1															Pérès.
Tebessa			30.10	764.6	77.0	25.0	79	s.			1		2			0	0	fair	St. Martin.
Geriville					86.0	30.0	11	e.			3		1			0	0	very fair	Forfert.
Laghouat			30.08	764.1	90.3	32.4	26	e.			1		0			0	0	clear	Abraham.
Biskra			30.11	764.7	87.8	31.0	33	se.			1		1			0	0	very fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.14	765.5	48.0	8.9	77	nw.	7	3.1			1 s			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.92	759.9	30.01	762.2	49.5	9.7	83	e.	1	0.4			4			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.54	750.2	30.08	764.0	63.0	17.2	59	se.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.1	29.99	761.8	49.3	9.6	74	w.	13.6	6.1			10			0.118	3.0		Dr. Wierzbiski
Eperies	29.08	738.7	29.96	761.0	52.9	11.6	67	n.			4		10 ks		s.	0.004	0.1		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.53	724 7	29.95	760.8	57.2	14.0	50	nw.			5		6			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.73	729.7	30.06	763.6	56.3	13.5	61	n.			1		3			0.031	0.8		The Staff.
Lemberg	28.91	734.2	29.90	759 4	49.1	9.5	82	w.			5		10			0.051	1.3		Dr. T. Stanecki.
Pola	29.95	760.6	30.06	763.4	70.2	21.2	52	nnw.			2		0			0.252	6.4		I. R. Hydrographic Office.
Szathmar	29.47	748.4	29.93	760.1	58.3	14.6	50	n.			4		5			0	0		Joseph Midlinsky, S. J
Szegedin	29.76	755.8	30.03	762.8	59.7	15.4	59	n.			3		3			0	0		Karl St[illegible]cel.
Trieste	29.98	761.6	30.08	764.1	69.4	20.8	44	nw.			1		0			0	0		Royal Academy.
Vienna	29.39	746.6	30.11	764.7	57.9	14.4	44	nw.			3		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.52	749.8	29.62	752.3	54.1	12.3	98	se.	24	10.7			10			0.185	4.7	raining	W. Boswell.
Armagh, Observatory	29.24	742.7	29.48	748.8	61.7	16.5	80	sw.	11	4.9			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.52	749.8	63.0	17.2	94	sw.	14	6.3			9					overcast	John Hartnup.
Bolton, Sharples	29.00	736.6	29.52	749.8	57.3	14.1	98	ssw.	3	1.3			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.12	739.6	29.52	749.8	57.8	14.3	94	se.			2		10			0.62	15.7	raining	McLandsborough & Preston.
Bridgetown, Barbadoes	29.94	760.5	29.97	761.2	85.0	29.4	68	se.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.52	749.8	29.63	752.6	64.0	17.8	78	w.			2.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.45	748.3	29.63	752.6	59.0	15.0	99	sw.			5		10					raining	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.50	749.3	29.72	754.9	62.3	16.8	90	sw.			4		9					d. clouds	The Staff.
Fort Napier, Natal	27.68	703.1	29.90	759.4	87.0	30.6	29	n.			1		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.61	752.1	29.84	757.9	86.0	30.0	80	n.			2		4					raining	J. W. Smith.
Galway, Queen's College	29.38	746.2	29.41	747.0	60	15.6	88	sw.			4		8			0.34	8.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.10	764.5	30.15	765.8	81.0	27.2	87	e.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.27	743.4	29.48	748.8	55.9	13.3	89	w.			3							raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.44	747.8	29.61	752.1	61 9	16.6	90	ssw.			4		10					overcast	The Staff.
Guernsey	29.51	749.5	29.80	756.9	62.5	16.9	94	wsw.			6		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.59	751.6	29.62	752.3	62.6	17.0	91	sw	17	7.6			10					overcast	The Staff.
Leicester, Museum	29.28	743.7	29.53	750.0	61.0	16.1	97	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	80.6	27.0	48	nw.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	84.8	29.3	73	s.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.04	737.6	29.55	750.6	61.3	16.3	97	ssw.			6		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.37	740.0	29.60	751.8	64.0	17.8	89	sw.			4		10					overcas	The Staff.
Plymouth	29.63	752.6	29.70	754.4	62.2	16.8	94	wsw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.49	749.0	29.59	751.6	52	11.1	88						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.77	756.1	29.83	757 7	84.6	29.2	56	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.26	743.2	29.53	750.0	61.6	16.4	97	sw.			1		10			0.24	6.1	raining	W. F. Cooper.
Silloth Rectory	29.44	747.8	29.47	748.5	56.0	13.3	91	se.			1		10			0.405	10.3	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.53	750.0	57.0	13.9	97	ssw.	4	1.8			10					raining	W. C. Carlisle.
Strathfield Turgiss					64.2	17.9	92	sw.			2.0		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.70	754.4	29.80	756.9	65	18.3	84	sw.			4		8					gloomy	W. Newcombe.
Valencia, Observatory	29.49	749.0	29.51	749.5	62.3	16.8	83	sw.	32	14.3			10			blank	blank	gloomy	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.69	754.1	30.08	764.0	75.6	24.2	57	nw.	18.6	8.3		2 cs		w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.91	759.7	29.95	760.7	53	11.7	93	calm	0	0			10 s			0	0	overcast	Hon. J. Ferguson
Charlottetown, P. E. Island	29.97	761.2	30.01	762.2	57	13.9	87	sw.	9	4.0		sk	sk			0	0	smoky	H. J. Cundall, C. E.
Chatham, N. B*	29.92	760.0	29.99	761.7	53	11.7	86	sw.	3	1.3			fg.			0	0	foggy	G. A. Blair.
Cornwall, Ontario	29.66	753.4	29.85	758.2	49.2	9.6	94	e.			1	0	8 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.91	759.7	29.96	761.0	50.0	10.0		calm	0	0						0	0	foggy	H. A. Johnson.
Edmonton, N. W. T	27.93	709.4			31	—0.6	58	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.82	757.4	29.84	757.9	58	14.4	90	sw.	15	6.7		2 cs	2 k	w.	w.	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.18	741 2	30.02	762.5	40	4.4	93	n.	7	3.1			10 n			0	0	fair	James Stewart.
Fredericton, N. B	29.95	760.7	30.02	762.5	55.0	12.8	78	e.	6.0	2.7			sk.			0	0	dense smoke	Prof. Thos. Harrison
Grand Manan, N. B	30.01	762.2	30.06	763.5	56	13.3	93	s.	11	4.9		0	7 ks		w.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.66	72[illegible].0	29.72	754.9	59.0	15.0	94	se.	2	0.9			10 n			0.16	4.1	overcast	Jas. Grant.
Halifax, N. S*	29.99	761.7	30.12	765.0	56	13.3	80	calm	0	0		5 ck	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.35	745.5	29.74	755.4	59.7	15.4	92	e.			1	cs	0	e.		0.38	9.7	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.52	749.8	29.85	758.2	60	15.6	84	s.	7	3.1		0	7 k		sw.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.02	762.5	30.06	763.5	54.0	12.2	96	sw.			3		fg.			0	0	foggy	C. H. Rigby.
London, Ontario	28.86	733.0	29.74	755.4	59.7	15.4	94	se.			1	0	8 ks			1.18	30.0	d. clouds	F. B. Reed.
Medicine Hat	27.92	709.2	30.37	771.4	34	1.1	52	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.68	753.9	29.88	758.9	57	13.9	80	s.	10	4.5		5 c	0	sw.		0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.62	752.3	29.86	758.4	51.1	10.6	93	ssw.				5 ck	0			0.038	1.0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.04	737 6	29.73	755.1	57	13.9	93	e.	8	3.6			10 n		sw.	0.53	13.5	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.14	740.1	29.80	758.4	55.7	13.2	87	calm			0	7 c	0	sw.		0.04	1.0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.08	738.6	29.75	755.6	62 [illegible]	16.7	94	s.	7	3.1			10 n		sw.	0.30	7.6	threatening	H Morgan.
Port Stanley, Ontario	29.10	739.1	29.73	755.1	62	16.7	90	se.	16	7.2			7 ks		sw.	0.18	4.6	cloudy	M. Payne.
Qu Appelle, N. W. T	27.92	709.2	30.27	768.8	32	0.0	88	calm	0	0		5 cs	0	nw.		0	0	fair	Leslie Gordon.
Quebec, Quebec*	29.57	751.1	29.92	760.0	54	12.2	96	s.	4	1.8		2 k	0	w.		0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.78	756.4	56	13.3	96	se.	5	2.2			10 s		se.	0.04	1.0	light rain	W. H. McIntyre.
St. Andrews, N. B	29.98	761.5	30.03	762.7	53	11.7	93	s.	4	1.8			10 n			0	0	cloudy	
St. John, N. B	29.92	760.0	30.06	763.5	52.0	11.1	100	s.	4	1.8			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F	29.63?	752.6?	29.88?	758.9?	49	9.4	93	sw.			1	0	1 ks			0	0	fair	The Commandant.
Saugeen, Ontario*	28.98	736.1	29.67	753.6	58	14.4	93	e.	4	1.8		0	0			0.35	8.9	clear	
Stratford, Ontario	28.48	723.4	29.73	755.1	57.9	14.4	96	s.	6.0	2.7			10 s			0.057	1.4	d. clouds	C. T. Macgregor, M. A.
St. Pierre, N. F			30.00	762.0	53.6	12.0		se.			2					0	0		The Commandant.
S. W. Point, Anticosti	29.84	757.9	29.88	758.9	53	11.7	90	se.	4	1.8		2 c	5 n	nw.	se.	0	0	cloudy	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Sydney, C. B.	30.01	762.2	30.07	763.8	52	11.1	96	s.	4	1.8			fg			0	0	dense fog	T. C. Hill, C. E.
Toronto, Ontario*	29.40	746.7	29.77	756.1	59	15.0	96	e.	5	2.2			10 n		se.	0.22	5.6	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.73	729.7	29.77	756.1	58.8	14.9	94	se.	11	4.9		0	5 ks			0.08	2.0	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	55	12.8	96	s.	4	1.8		7 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.93	760.2	59.0	15.0	97	wsw.	20.9	9.3			10 n			0.030	0.8	showery	I. Garfelt.
Springbok Fontein	27.92	709.2			54	12.2	48									0	0		J. T. Eustace.
Chilian.																			
Coquimbo	29.95	760.8	30.03	762.8	55.6	13.1	93	e.			2		10					cloudy	Samuel Redolez.
Iquique	30.02	762.5	30.05	763.2	60.6	15.9	70	sw.			2							cloudy	Rafael Moreno.
Niebla	29.70	754.3	29.80	757.0	49.3	9.6	84	e.			2	0	0			0	0	clear	Federico Köhling.
Punta Caldera	30.01	762.2	30.10	764.4	57.2	14.0	81	nw.			2	8 c		nw.				fair	Manuel Tobar.
Punta Corona	29.67	753.7	29.86	758.5				n.			0		10			0.315	8.0	hazy	Ignacio Ayala.
Valparaiso	29.87	758.7	30.01	762.3	54.1	12.3	85	sw.			0							cloudy	Paez-i-Ampuero.
Chinese (sub-series).																			
Sung-shu-chwang	25.37	644.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.20	767.0	30.22	767.6	66.9	19.4	68	ene.	2.2	1.0			10			0	0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.98	761.5	30.03	762.7	51.1	10.6	69	e.	7	3			3						Oversergent Fischer.
Fanoe	29.97	761.1	29.98	761.6	56.1	13.4	66	s.	9	4			5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.61	752.0	29.65	753.1	46.4	8.0	79	calm	0	0			0						A. O. Thorlacius.
Thorshavn	29.66	753.4	29.69	754.0	49.6	9.8	86	se.	18	8			10						Overloerer Bergh.
Vestervig	29.87	758.8	29.97	761.1	53.1	11.7	60	sse.	4	2			1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.78	756.3			88.2	31.2		ne.	8.5	3.8			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.72	754.8	30.11	764.7	73.4	23	79	nw.			1		nk		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.48	748.9	30.00	761.9	62.2	16.8	96	sw.			1		n		ne.	0.315	8.0		M. Nicot, Director.
Avignon, Normal School	29.99	761.8	30.07	763.8	72.7	22.6	47	n.			1		5			0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.41	747.1	29.96	761.0	61.2	16.2	61	s.			1		10			0	0	covered	M. Saillard, Director
Beauvais, Normal School	29.58	751.4	29.85	758.1	59.4	15.2	89	s.			1		10		s.	0.047	1.2	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.16	740.6	30.04	763.0	60.4	15.8	61	ssw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.77	756.2	30.03	762.7	66.0	18.9	92	sw.			1		10		w.	0.008	0.2	raining	M. Rayet, Director.
Bourges, Normal School	29.41	746.9	29.95	760.6	64.4	18	71	w.			1		k		w.	0.126	3.2		M. Malet, Director.
Brest, Naval Observatory	29.65	753.2	29.90	759.4	63.7	17.6	92	wsw.			2		10		wsw.	1.181	30.0		M. de Kermarée, Dir.
Caen, Normal School	29.71	754.7	29.80	756.8	67.3	19.6	83	w.			2		5		w.	0.295	7.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.76	756.0	30.08	764.0	57.7	14.3	78	n.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.47	748.6	29.98	761.6	54.5	12.5	73	s.			4		10					raining	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.66	728.0	29.98	761.4	68.0	20.0	65	se.			1		10			0.004	0.1		M. Alluard, Director.
Cluny, Normal School	29.24	742.8	30.09	764.2	64.0	17.8	67	se.			1				s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.17	741.0	30.03	762.7	57.2	14	78	se.			1		5 kn	se.	se.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.54	699.6	30.01	762.3	66.2	19	60	s.			1	5 c				0	0		M. Jarach, Director.
Grésque, du Rhone	28.93	734.8	30.02	762.5	72.7	22.6	37	nw.			1		3		w.	0	0		M. Kuu, Director.
Grenoble. Normal School	29.30	744.3	30.06	763.4	64.0	17.8	72	ene.			1	ck		nw.		0	0		M. Ablard, Directoor
Guéret, Normal School	28.40	721.3	29.93	760.2	65.3	18.5	66	sw.			1		10 kn		sw.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.52	749.7	29.79	756.7	66.2	19	79	w.			2		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.4	30.09	764.3	78.4	25.8	60	w.			1		10 n			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.80	756.8	29.90	759.4	63.7	17.6	90	sw.			2					0.008	0.2	foggy	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.04	737.5	30.08	764.0	63.5	17.5	55	ese.			1	10 cs				0	0	covered	M. André, Director
Mans, Normal School	29.60	751.7	29.90	759.4	60.1	15.6		sse.			4		10			0.138	3.5	raining	M. Richard, Director
Marseille, Observatory	29.78	756.4	30.04	763.1	71.1	21.7	46	w.			2		7		w.	0.008	0.2		M. Stephan, Director.
Montlouis	24.98	634.6	29.83	757.6	59.0	15.0	30	w.	3.8	1.7			5			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.2	30.00	761.9	73.4	23	83	n.			2		10		nw.	0	0	covered	M. Galzin, Director.
Nantes, Observatory	29.80	757.0	29.97	761.1	64.4	18.0	89	wsw.			2-4		9 n; kn		w.	0.126	3.2		M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.08	763.9	71.8	22.1	56	se.	5.6	2.5			9	wnw.		0.031	0.8		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.1			43.5	6.4		nw.			1		10		nw.	0.039	1.0	covered	M. Vaussenat, Director.
Privas, Normal School	29.04	737.5	30.08	764.1	64.8	18.2	71	ne.			1		2 k			0	0	slightly cl'dy	A. Tallieu.
Puy de Dôme Obs'y, Summit	25.23	640.8			51.8	11.0	63	wsw.			4		10			0.008	0.2	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.95	760.6	29.98	761.4	68.0	20.0	83	sw.			3		10		wsw.	0.004	0.1	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.75	755.6	29.96	760.9	66.4	19.1	97	sw.			4		10	sw.	sw.	0.16	4.	raining	M. Brotier, Director.
Rodez, Normal School	27.94	709.7	30.08	764.0	58.3	14.6	96	nw.			1		10		ne.	0.091	2.3	raining	M. Seger, Director.
Rouen, Normal School	29.76	755.8	29.80	757.0	60.4	15.8	96	nw.			1		5	e.		0.51	13.	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.74	755.5	29.91	759.7	57.7	14.3	93	sse.			2		10		ssw.	0.165	4.2		M. Renou, Director.
Toulouse, Observatory	29.37	746.0	30.10	764.4	77.0	25.0	43	s.			1		8	nw.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.75	755.6	29.93	760.1	66.2	19.0	79	s.			2		10	sw.	ssw.	0.098	2.5	covered	M. de Tastes.
Versailles, Observatory	29.39	746.6	29.89	759.1	58.3	14.6	93	sw.			1		10			0.201	5.1	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.92	759.9	30.07	763.7	73.9	23.3	65	n.	5.8	2.6			10 k		n.	0.004	0.1	misty	M. Cartier, Director.
German.																			
Ansbach	28.65	727.8	30.10	764.6	56.1	13.4	51	e.			2		6	e.		0.012	0.3		Prof. Jnedt.
Bamberg	29.26	743.2	30.11	764.7	59.0	15.0	62	calm			0		5 k			0	0		Prof. Dr. Hoh.
Berlin	29.95	760.7	30.10	764.4	56.1	13.4	54	nw.			1		9			0.016	0.4		Dr. Lensch.
Breslau	29.56	750.7	30.09	764.2	51.8	11.0	62	wnw.			4		10			0	0		Royal University Obs'y.
Carlsruhe	29.60	751.8	30.05	763.3	61.2	16.2	56	e.			1		9	nw.		0.217	5.5		Albert Senz.
Cassel	29.32	744.8	30.04	762.9	58.3	14.6	51	s.			2		5	sw.		0.039	1.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.71	754.5	30.07	763.7	58.6	14.8	60	s.			1		5			0	0		Physical Society.
Friedrichshafen	28.64	727.5	30.05	763.3	58.3	14.6	71	sw.			2		6	w.		0.154	3.9		Wilhelm, Chief Tel.
Hamburg	29.95	760.7	30.04	763.0	57.4	14.1	99	se.			2		7			0.012	0.3		E. Preller.
Kiel	30.01	762.3	30.03	762.7	52.9	11.6	56	calm			0		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.69	754.1	30.11	764.8	55.0	12.8	66	wnw.			2		7			0.004	0.1		H. Leppig, Asst.
Magdeburg	29.89	759.3	30.08	764.1	58.5	14.7	61	sw.			1		7	w.		0.024	0.6		Weather Observatory.
Memel	29.92	759.9	29.97	761.1	52.5	11.4	58	n.			3		5 ks						Issermann.
Munich	28.23	717.1	30.10	764.5	55.9	13.3	55	ne.			2		3	w.		0	0		Central Station.
Neufahrwasser	29.99	761.7	30.00	762.1	54.1	12.3	56	nw.			2		4	n.		0.126	3.2		A. Lothes.
Neustadt, Palatinate	29.51	749.6	30.04	763.1	60.8	16.0	61	calm			0		8	w.		0	0		Dicknether.
Stuttgart	29.11	739.5	30.00	762.0	59.9	15.5	56	s.			1		6	n.		0.059	1.5		Prof. Dr. Schoder.
Wustrow	30.02	762.4	30.04	763.0	53.4	11.9	69	nnw.			2		5 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.51	749.6	29.88	759.0	82.9	28.3		sw.			1.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.72	754.8	29.77	756.1	82.9	28.3	74	wsw.	34.0	15.2			1	wsw.		0	0	d. clouds	
Deesa	29.25	742.8	29.70	754.5	94.6	34.8	39	wnw.	9.0	4.0			3	nw.		0	0	d. clouds	
Bombay	29.80	757.0	29.94	758.0	78.1	25.6	89	nw.	11.0	4.9			10		wsw.	0.11	2.8	overcast	
Poona, Yarrowda	27.98	710.6	29.85	758.2	72.9	22.7	76	wsw.	21.0	9.4			10			0.07	1.8	overcast	
Trichinopoly	29.53	750.0	29.80	757.0	91.0	32.8	48	nw.	0.2	0.1			0			0	0	blue sky	
Bellary	28.30	718.9	29.75	755.7	85.0	29.4	52	w.	10.0	4.5			9	se.		0	0	gloomy	
Belgaum	27.30	693.5	29.88	758.9	68.1	20.1	87	wsw.	11.0	4.9			10	w.		0.03	0.8	d. clouds	
Lahore	28.93	734.9	29.66	753.3	89.5	31.9	51	calm	0	0			0			0	0	blue sky	
Roorkee	28.75	730.3	29.63	752.5	89.8	32.1	57	calm	0	0			0			0	0		
Agra	29.12	739.7	29.67	753.5	98.6	37.0	22	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.69	728.8	29.74	755.3	77.7	25.4	92	calm	2.0	0.9			10			0.10	2.5	thund'rst'm	
Jubbulpore	28.37	720.6	29.70	754.5	87.1	30.6	58	e.	8.0	3.6			8	e.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.28	743.8	29.65	753.2	91.1	32.8	41	calm	0	0			0			0	0	blue sky	
Allahabad	29.36	745.7	29.77	756.1	84.7	29.3	72	calm	0	0			0			0	0	blue sky	
Patna	29.50	749.2	29.68	753.9	88.0	31.1	71	ene.	2.4	1.1			10	ene.	ene.	0	0	overcast	
Hazaribagh	27.73	704.4	29.74	755.5	76.5	24.7	87	e.	3.0	1.3			10			1.43	36.3	thund'r st'm	
Cuttack	29.65	753.0	29.73	755.1	79.5	26.4	86	calm	0	0			9			0.66	16.8	d. clouds	
Calcutta, Alipore	29.69	754.2	29.71	754.7	84.5	29.2	86	sse.	1.5	0.7			7		se.	0	0	d. clouds	
Dhubri	29.62	752.3	29.74	755.3	76.3	24.6	95	calm	0	0			10			1.19	30.2	gloomy	
Chittagong	29.65	753.0	29.74	755.3	81.2	27.3	90	calm	2.9	1.3			10			0.48	12.2	drizzling	
Sibsagar	29.43	747.6	29.77	756.1	81.5	27.5	85	ne.	2.0	0.9			8	w.	w.	0.04	1.0	d. clouds	
Jeypore	28.29	718.5	29.69	754.0	95.1	35.1	27	nw.	4.5	2.0			2		nw.	0	0	blue sky	
Zanzibar	30.02	762.5			82.7	28.2	68	nnw.	4.1	1.8			2	ese.		0	0	d. clouds	
ITALIAN.																			
Udine	29.67	753.5	30.06	763.6	68.2	20.1	44	calm	0	0			2			0	0		Prof. Giovanni Clodig.
Milan	29.55	750.5	30.05	763.3	69.8	21.0	52	s.	1.8	0.8			6	wsw.		0	0		Prof. Dott. Lorenzoni.
Padua	29.93	760.3	30.04	763.0	68.4	20.2	53	nnw.	2.5	1.1			5	sw.		0	0		Prof. F. F. Denza.
Moncalieri	29.15	740.3	30.03	762.8	70.0	21.1	54	nnw.	1.3	0.6			7	n.		0	0		Prof. G. M. Garibaldi.
Genoa	29.85	758.1	30.03	762.8	73.0	22.8	67	sw.	5.6	2.5			6	ne.		0	0		Prof. D. C. Bruno.
Mondovi	28.17	715.6	30.04	763.1	65.8	18.8	46	w.			2		1			0	0		Prof. Luigi Guidi.
Pesaro	30.01	762.2	30.06	763.4	69.1	20.6	64	e.	9.8	4.4			0			0.008	0.2		Prof. Costantino Pittei.
Florence	29.78	756.3	30.02	762.6	73.4	23.0	64	w.			2		3			0	0		Prof. P. Monte.
Leghorn	29.87	758.6	29.95	760.7	72.7	22.6	68	w.	1.8	0.8			2			0	0		Prof. P. Tacchini.
Rome	29.82	757.5	29.99	761.8	78.3	25.7	33	wnw.	1.8	0.8			0			0	0		Prof. C. de Giorgi.
Lecce	29.72	754.8	29.96	761.0	72.1	22.3	41	nne.	17.4	7.8			7	n.		0	0		Prof. D. Conti.
Cosenza	29.10	739.2	29.97	761.2	75.6	24.2	66	wsw.	3.1	1.4			2	sw.		0	0		Prof. A. Pacinotti.
Cagliari	29.86	758.4	30.05	763.2	76.3	24.6	36	nw.			4		1			0	0		Prof. G. Cacciatore.
Palermo	29.80	757.0	30.04	763.1	74.1	23.4	50	nw.	9.8	4.4			1			0	0		Sig. Vincenzo Giuliano
Syracuse	29.92	760.0	29.97	761.1	75.0	23.9	60	e.	1.8	0.8			4	wsw.		0	0		
Sub-series.																			
Naples, S. R	29.50	749.3	30.01	762.3	73.0	22.8	54	ne.	0.7	0.3			2	ssw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.90	759.6	29.94	760.6	53.8	12.1	94	calm			0		9 n		sw.	0.276	7.0	raining	H. Hattori.
Awomori	29.88	758.9	29.91	759.7	51.8	11.0	87	sse.	1.0	0.4		0	7 ks		sw.	0.032	0.8	cloudy	K. Ogawa
Hamamatsu	29.84	757.9	29.94	760.4	65.2	18.4	60	wnw.			4	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.07	763.7	30.08	764.0	61.3	16.3	57	n.			2	0	0			0	0	clear	G. Miyanoaaza.
Kanazawa	29.92	759.9	30.02	762.5	58.6	14.8	95	se.	2.9	1.2			10 ks			0.764	19.4	overcast	S. Endo.
Kioto	29.83	757.7	30.00	762.1	61.5	16.4	68	nnw.	2.1	0.9		0	0			0	0	clear	M. Tojima.
Kochi	30.02	762.6	30.05	763.1	63.6	17.6	66	nnw.	2.0	0.9		0	1 s			0	0	clear	K. Kusunose.
Mizasaka	30.04	763.0	30.07	763.7	65.2	18.4	54	wsw.			2	0	1 ck		w.	0	0	fair	K. Maesaki
Miyako	29.83	757.7	29.94	760.5	54.5	12.5	82	wsw.	3.3	1.4		5 ck	0			0	0	fair	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.92	759.9	30.12	765.0	61.3	16.3	70	calm	0	0		0	0			0	0	clear	S. Takehavasi
Niigata	29.93	760.2	29.97	761.2	58.4	14.7	92	sw.	6.3	2.8		0	3 ks		sw.	0.530	13.5	fair	Satoo & Tomikawa.
Nobiru	29.92	759.8	29.93	760.2	58.4	14.7	86	nnw.	10.2	4.6		0	4s;ks			0	0	fair	Yoslino & Midzushina.
Numazu	29.88	758.9	29.91	759.8	63.1	17.3	87	ene.			2	0	1 s			0	0	clear	R. Kaneda.
Osaka	29.99	761.6	30.00	762.1	64.0	17.8	63	ne.	4.5	2.0		0	1 s			0	0	clear	H. Omura.
Sakai	30.06	763.5	30.07	763.7	59.8	15.4	79	calm			0		10 ks		sw.	0	0	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.95	760.7	30.09	764.4	63.4	17.4	90	calm			0	0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.86	758.4	29.93	760.3	67.4	19.7	70	se.	3.3	1.4			9 ks;s		w.	0.016	0.4	cloudy	The Staff.
Wakayama	29.94	760.4	29.99	761.7	69.8	21.0	51	n.	7.3	3.3		0	8 ck		n.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	72.7	22.6	71	ese.	21.0	9.4		0	4 k		se.	0.06	1.5	fair	The Staff.
MEXICAN.																			
Leon	24.30	617.2	29.96	761.0	59.0	15.0	91	ese.	0.9	0.4			10 ns			0.024	0.6	overcast	Prof. M. Leal.
Mazatlan	29.65	753.0	29.90	759.6	72.5	22.5	85	ene.	1.6	0.8		6 cs	0	sw.		2.402	61.0	fair	F. Quijano, C. E.
Sub-series.																			
Altata					72	22.2	90	e.			1	2 c	2 k	e.	s.	2.75	69.8		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.86	758.5	29.86	758.5	56.1	13.4		sse.			5					0	0		
Groningen	29.93	760.2	29.98	761.6	55.4	13.0		s.			2					0	0		
Helder	29.91	759.6	29.91	759.6	56.7	13.7		se.			4					0.264	6.7		
Hellevoetsluis	29.89	759.3	29.89	759.3	54.7	12.6	81	se.			3					0.311	7.9		
Utrecht	29.90	759.5	29.95	760.7	58.1	14.5	58	sse.			3		8			0.260	6.6	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.92	759.9			81.0	27.2	72	n.	0	0			4			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.87	758.6	29.93	760.2	51.8	11.0	59	sw.	11.2	5.0			3			0	0		
Brono	29.82	757.4	29.86	758.4	46.6	8.1	70	calm			0		5			0.126	3.2		
Christiania	29.82	757.4	29.97	761.1	51.3	10.7	54	wsw.	0	0			0			0	0		
Gjesvær	29.56	750.7	29.58	751.3	36.3	2.4		n.			7		10					raining	
Lodingen	29.82	757.3	29.86	758.5	43.0	6.1	42	n.			2		3			0	0		
PORTUGUESE.																			
Angra, Azores					69.4	20.8	92	wsw.	13.6	6.1			9			0.748	19.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.17	766.3	30.26	768.5	74.8	23.8	70	sw.	4.3	1.9			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.90	759.5	30.23	767.9	70.9	21.6	65	wsw.	11.9	5.3			5	wnw.		0.008	0.2		The Staff.
Ponta Delgada, Azores	29.87	758.7	29.94	760.5	74.1	23.4	88	sw.	25.5	11.4			3			0.752	19.1		
Saint Paul de Loando	29.80	756.8	30.00	762.0	74.5	23.6	89	nw.			2		8			0	0		
San Salvador, Congo	28.17	715.6	30.03	762.7	73.6	23.1	70	w.			2		10						
Serra da Estrella	25.50	647.6	30.10	766.1	58.5	14.7	81	wsw.	12.5	5.6			9			0	0		
RUSSIAN.																			
Akmolinski	28.89	733.9	29.92	759.9	76.3	24.6	23	sw.	7	3		1 c	0			0	0		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	37.0	2.8	55	se.	2	1		1 cs	0			0	0		Capt. Sselliwerstow
Ashurada	30.10	764.5	30.00	762.1	79.5	26.4	73	nnw.	7	3		0	3 k			blank	blank		
Astrakhan	30.00	761.9	29.93	760.1	82.4	28.0	43	sw.	4	2		0	2 k			0	0		Capt. Wisganow.
Baku	30.02	762.6	29.98	761.4	79.9	26.6	47	nne.	9	4		0	0			0	0		
Barnaul	29.58	751.4	30.07	763.8	62.2	16.8	41	s.	9	4			4			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.26	743.1	29.74	755.3	33.4	0.8	85	nne.	7	3			10ks;n			0.006	0.2	light snow	
Dorpat	29.57	751.0	29.81	757.2	48.2	9.0	58	nnw.	4	2		0	4 k			0.039	1.0		Observatory.
Ekaterinburg	28.91	734.4	29.86	758.5	56.7	13.7	52	ese.	4	2			10			0.039	1.0	hazy	Meteorological Obs'y.
Elissawetgrad	29.34	745.2	29.78	756.5	59.0	15.0	47	w.	7	3		0	7 ks			0.059	1.5		
Irkutsk	28.64	727.4	30.29	769.4	49.5	9.7	54	e.			2		0			0	0		
Kasalinsk					78.4	25.8	27	e.	4	2		0	4 s						
Kasan	29.21	741.8	29.47	748.4	62.1	16.7	70	sse.	9	4		0	8 n			0.031	0.8		Observatory.
Kem	29.76	755.9	29.81	757.2	43.9	6.6	43	calm	0	0		0	3 k			0	0		
Kertch	29.73	755.2	29.76	755.8	74.8	23.8	72	se.	7	3		0	5 k			0	0		Lagorio & Sastyrea.
Kieff	29.00	736.7	29.03	752.6	53.1	11.7	62	w.	16	7		0	7ks;n			0.031	0.8		Observatory.
Koslov																			
Libau	29.89	759.3	29.92	759.9	52.9	11.6	56	nw.			6		2			0	0		E. Quasa.
Lugan	29.44	747.8	29.64	752.9	64.8	18.2	88	ssw.	18	8			10			0.177	4.5		Meteorological Obs'y.
Moscow	29.08	738.7	29.57	751.0	39.0	3.9	88	nw.	3.4	1.5			10 n			0.083	2.1		Meteorological Obs'y
Nikolaiev	29.76	756.0	29.84	757.8	63.1	17.3	73	nnw.	9	1.0			10 n			0.465	11.8		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					41.7	5.4	86	calm	0	0		0	0						Iwanow.
Pekin, China	30.02	762.5	30.16	766.1	59.5	15.3	55	sw.	7.8	3.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.58	751.2	29.91	759.7	81.7	27.6	15	nnw.	2.2	1.0			10 k						
Petrozavodsk	29.60	751.8	29.80	757.0	36.1	2.3	74	ne.	9	4			10			0.185	4.7		Dr. Bergmann.

Stations.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Pinsk	29.16	740.6	29.65	753.2	48.0	8.9	86	nw.	18	8			10 n			0.220	5.6	raining	
Poti	29.90	759.5	29.93	760.3	80.4	26.9	82	nw.	4	2		0	6			0	0		
St. Petersburg	29.76	755.9	29.78	756.5	45.1	7.3	64	ne.	2	1		c	9 kn			0	0		Central Physical Obs'y.
Samarkand	27.52	698.9	29.90	759.5	70.5	21.4	63	calm	0	0		0	0			0	0		
Semipalatinsk	29.42	747.2	30.06	763.4	68.5	20.3	22	s.	4	2			0			0	0		Major Lasarew
Sevastopol	20.57	751.1	29.78	756.3	74.5	23.6	67	wsw.	20	9		0	7 n			0.004	0.1		
Staroi Bykhov	29.02	737.0	29.58	751.2	42.8	6.0	96	ene.	7	3			10					raining	
Tashkend Laboratory	29.26	717.8	29.83	757.6	82.8	28.2	31	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.56	725.4	29.90	759.5	81.5	27.5	34	nw.	2	1		0	1 k			0.075	1.9		Physical Observatory.
Vernoe	27.47	697.6	29.88	758.9	69.1	20.6	43	calm	0	0		0	0			0	0		
Viatka	28.97	735.8	29.60	751.8	45.7	7.6	99	ene.	7	3			10			0	0		
Warsaw	29.48	748.7	29.90	759.5	48.4	9.1	60	nnw.	20	9		0	7 k			0	0		Astronomical Obs'y.
Yeniseisk	29.77	756.1	30.05	763.3	54.7	12.6	52	sw.	2	1			10			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.96	760.9	30.06	763.5	78.4	25.8	70	s.	6.9	3.1		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.99	761 8	30.05	763.3	84 2	29.0	44	w.	3.4	1.5			10			0.004	0.1	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.23	691.6	30.12	765.0	69.4	20.8	47	sw.	6.9	3.1			6			c	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.3	30.11	764 7	78.1	25.6	44	sw.	10.7	4.8		0	8			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.95	760.8	30.07	763.7	83.7	28.7	47	ssw.	2.7	1.2		0	2			0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.24	742.8	30.00	762.1	66.2	19 0	91	s.	4.3	1.9		8 s		s.	s.	0.142	3.6	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.13	739.9	30 01	762.2	64.9	18.3	99	sw.	19.2	8.6			10			1.087	27.6	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.93	760.2	30.00	761.9	79.2	26.2	82	se.	5.6	2.5		4cs;ck	k	nne.		0.02	0.6	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.7	29.93	760.1	80.0	26.7	84	se.	0	0		0	7 kn			0.217	5.5	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.16	766.1	82.2	27.9	57	w.	10.6	4.7		4	3	ne.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.6	30.08	763.9	79.5	26.4	83	calm	0	0		1 s	1 k	w.	w.	0	0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.72	754 9	29.76	755.9	47.8	8.8	53	nw.			4		8			0	0		
Umea	29.76	756.0	29.82	757.3	51.8	11.0	47	nw.			2		3			0	0		
Hernosand	29.84	758.0	29.89	759.3	49.6	9.8	57	nw.			2		5			0	0		
Stockholm	29.76	755.9	29.94	760 4	49.6	9.8	53	wnw.			2		1			0	0		
Wisby	29.85	758.3	29.91	759 8	49.6	9.8	69	nnw.			6		5			0.598	15.2		
Sub-series.																			
Upsala	29.83	775.7	29.92	759.9	49.6	9.8	56	nw.	6.3	2.8			2		nw.	blank	blank		H.H.Hildebrandesson.
Swiss.																			
Geneva	28.68	728.5	30.09	764 3	58.6	14.8	69	nnw.			2		10			0	0	covered	The Observatory.
Turkish.																			
Constantinople			29.89	759.2	81.0	27.2	49	sw.	9	4.0			1		sw.	0.583	14.8		The Observatory.
Valona			30.11?	764.7?	74.8	23.8		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.96	760.9	83.1	28.4	49	n.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.73	678.9			56	13.3	86	w.			0.5		10 n		w.	0.31	7.9	sprinkling	Fred L. Kingsbury.
United States.																			
Albany, New York	29.90	759.4	29.98	761.5	62.4	16.9	82	s.	5	2.2			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.01	736.8	29.66	753.4	58	14.4	93	s.	7	3.1		4 k	fg.	sw.		0.16	4.1	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.93	760.2	44	6.7	58	se.	2	0.9		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.38	695 4	30.22	767.6	39	3.9	73	ne.	4	1.8		0	sk			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.74	730.0	29.91	759.7	61.0	16.1	93	w.	7	3.1			hz.			0.42	10.7	dense haze	Edward A. Beals.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	66	18.9	93	e.	6	2.7			10 s			0.02	0.5	cloudy	Jas. M. Watson.
Augusta, Georgia	29.70	754.4	29.89	759.2	71.0	21.7	94	se.	4	1.8			10 s		se.	0.02	0.5	cloudy	D. J. Young.
Baltimore, Maryland	29.85	758 2	29.90	759.4	63	17.2	100	ne.	3	1.3			10n;fg			0.01	0.3	light rain	Geo. W. Fenger.
Barnegat City, New Jersey	29.91	759.7	29.93	760.2	65.0	18.3	100	e.	12	5.4			10n;fg			0.06	1.5	light rain	G. A. Hill.
Behring Id., Behring Sea	30.20	767.1	30.22	767.6	37.0	2.8	89	e.	2	0.9		0	4 k			0	0	fair	Geo. Chernick.
Bennett, Fort, Dakota	28.38	720.8	29.97	761.2	38.0	3.3	96	calm	0	0			fg.			0	0	dense fog	A. Fritchard.
Benton, Fort, Montana	27.45	697.2	30.29	769.4	38	3.3	72	calm	0	0			sk.			0	0	dense smoke	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.01	762.2	46	7.8	93	ne.	18	8.0			10 s		ne.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.99	761.7	30.02	762 5	62	16.7	90	se	7	3.1		3 cs	5 s		sw.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.95	760.7	44	6.7		sw.	3	1.3		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.87	758.7	30.02	762.5	58.0	14.4	86	sw.	3	1.3		6 ck	2 s;fg			0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.09	764 3	30.15	765.8	64.0	17.8	73	n.	6	2.7			10 s		n.	0	0	threatening	E. C. Imlay.
Buffalo, New York	29.04	737.6	29.77	756.1	60	15.6	86	e.	7	3.1			10 s		s.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.19	716.0	30.17	766.3	41	5.0	100	n.	8	3.6		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.52	749.8	29.92	760.0	51.6	10.9	82	sw.	6	2.7			10 s		sw.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.06	753.4	29.86	758.4	58.5	14.7	91	se.	11	4.9		0	sk.			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	29.86	758 4	29.88	758.9	69.0	20.6	93	ne.	7	3.1			10 s		ne.	0.01	0.3	cloudy	A. A. Alderson.
Cape May, New Jersey	29 85	758.2	29.88	758.9	67.0	19.4	97	e.	12	5.4			10 n			0.08	2.0	light rain	W. E. Smith.
Cape Mendocino, California	29.25	742.9	29.93	760.2	53	11.7	93	calm			0		fg.			0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.91	759.7	29.93	760.2	82.0	27.8	82	s.	14	6.3		0	4 k		s.	0.27	6.9	fair	G. W. Davis.
Charleston, S. Carolina	29.85	758.2	29.90	759.4	74.0	23.3	97	se.	6	2.7			10 s		s.	0.17	4.3	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.00	736.6	29.84	759.7	64.0	17.8	93	se.	12	5.4			10s;fg		se.	0.03	0.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.11	739.4	29.92	760.0	59.0	15.0	81	nw.	2	0.9		4 ck	5 s	sw.		1.21	30.7	cloudy	B. L. Gouldin.
Cheyenne, Wyoming	24.14	613.1	30.00	762.0	42.3	5.7	25	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.00	736.6	29.69	754.1	50.0	10.0	77	sw.	1	0.4		0	2 ks			0.68	17.3	clear	Wm. Norrington.
Chincoteague, Virginia	29.86	758.4	29.88	758.9	67	19.4	100	e.	5	2.2			10n;fg		e.	0.07	1.8	light rain	C. F. Dickens.
Cincinnati, Ohio	29.14	740.1	29.79	756.7	59.0	15.0	87	w.	5	2.2		4 ck	2 k	sw.	w.	0.90	22.9	fair	L. Dunne.
Cleveland, Ohio	28.99	736.3	29.71	754.6	62	16.7	81	se.	8	3.6			10 s		sw.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	28.88	733.5	29.72	754.9	62	16.7	100	se.	3	1.3			10 n			0.34	8.6	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.20	716.3	30.10	764.5	49.0	9.4	86	calm	0	0		2 cs	0			0	0	clear	J. McGlone.
Custer, Fort, M. T	27.07	687.0	30.19	766.8	37	2.8	64	nw.	2	0.9		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.04	737.1	29.69	754.1	46	7.8	83	sw.	7	3.1		3 ck	0	nw.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.34	643.6	30.04	763 0	45	7.2	65	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	30.03	762.7	37.5	3.1	64	n.	1	0.4		0	sk.			0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.44	646.2	30.00	762.0	40	4.4	76	ne.	4	1.8		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	29.88	758.9	29.90	759.4	67	19.4	100	se.	14	6.3			10 n		se.	0.06	1.5	light rain	T. S. Townsend.
Denver, Colorado	24.85	631.2	29.96	761.0	42.5	5.8	71	s.	10	4.5		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.82	732.0	29.71	754.6	53	11.7	93	nw.	4	1.8			10 n		nw.	0.75	19.0	light rain	F. W. Conrad.
Detroit, Michigan	28.97	735.8	29.65	753.4	64.0	17.8	90	e	3	1.3			10 n		s.	0.28	7.1	light rain	E. R. Brace.
Dodge City, Kansas	27.40	697.5	30.01	762.2	43	6.1	82	nw.	6	2.7		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	28.96	735 6	29.66	753.4	50.3	10.2	86	sw.	4	1.8			10 s		s.	0.81	20.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.97	735.8	29.71	754.6	59.5	15.3	87	nw.	12	5.4		0	9s;ks		nw;w	0	0	cloudy	N. B. Conger.
Eastport, Maine	29.97	761.2	30.04	763.0	55.5	13.1	90	s.	4	1.8			10s;fg		sw;s	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	30.01	762.2	47	8.3	77	n.	8	3.6		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.45	671.8	30.10	764.5	52.0	11.1	43	e.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.04	737.6	29.75	755.6	61	16.1	84	s.	9	4.0			10 n			0.09	2.3	light rain	C. A. Shaw.
Escanaba, Michigan	29.08	738.1	29.74	755.4	55.5	13.1	100	n.	6	2.7			fg.			0.05	1.3	dense fog	George Heathcote.
Galveston, Texas	30.04	763.0	30.08	764.0	68	20.0	73	n.	7	3.1		0	9 s		sw.	0	0	cloudy	E. O'C. Machnerney.
Grand Haven, Michigan	28.99	736.3	29.65	753.1	58.0	14.4	80	sw.	14	6.3		5 ck	0	s.		0.71	18.0	fair	Wm. H. Fallon.
Grant, Fort, Arizona	25.29	642.4	29.89	759 2	55.7	13.2	49	nw.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.86	758.4	29.88	758.9	72 0	22.2	90	ne.	6	2.7			fg.			0	0	dense fog	R. M. Crawford.
Helena, Montana	25.97	659.6	30.14	765.5	46	7.8	44	sw.	5	2.2		0	0			0	0	clear	I. H. Jones.

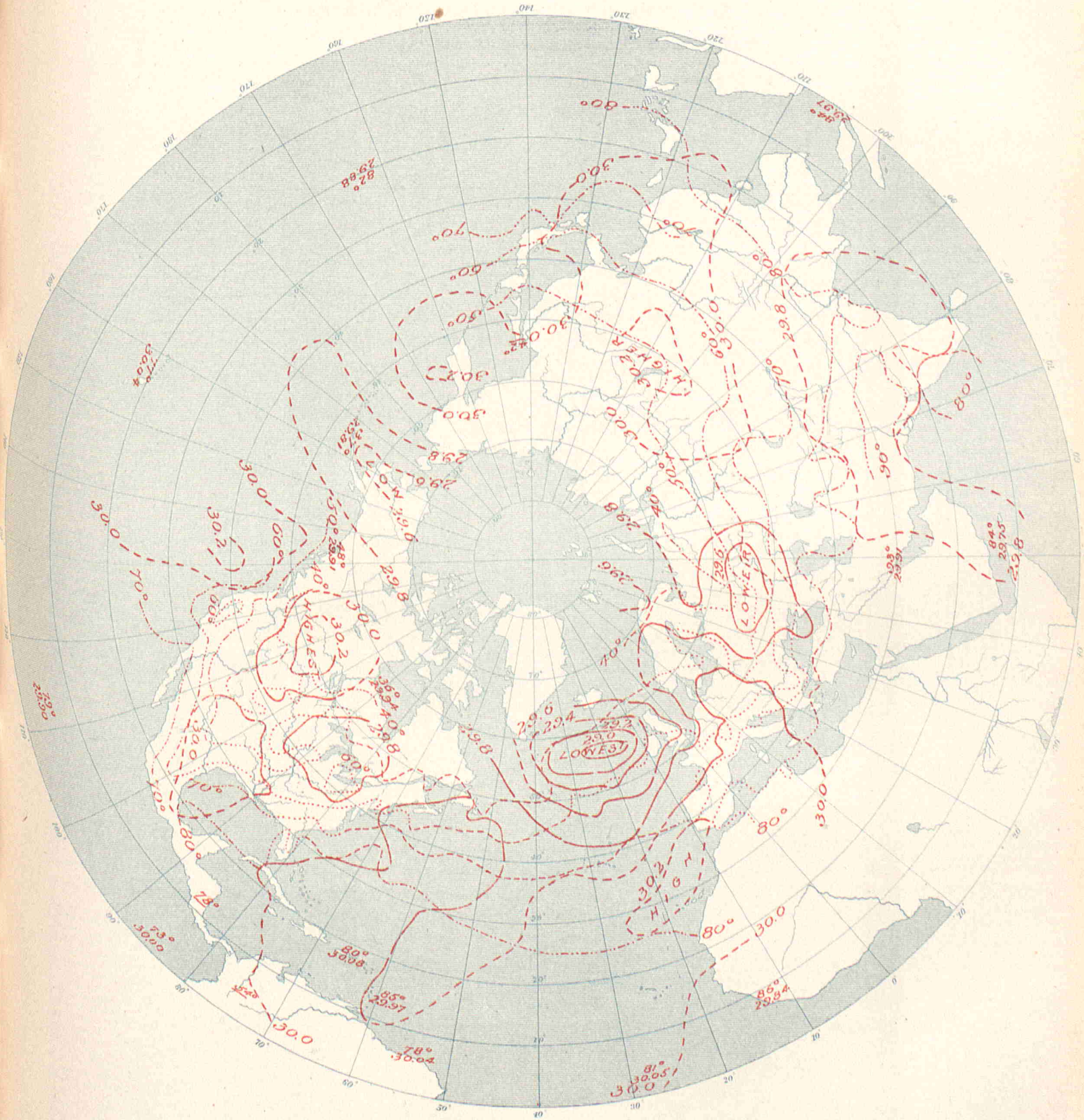
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.53	724.6	29.91	759.7	47.3	8.3	88	ne.	2	0.9		0	1 s			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	28.95	735.3	29.73	755.1	52.8	11.6	90	sw.	1	0.4		0	fg.			1.11	28.2	light fog	C. F. R. Wappenhans.
Indianola, Texas	30.08	764 0	30.11	764.8	65.2	18.4	79	w.	8	3.6			10 s			0	0	cloudy	I. A. Reed.
Jacksonville Florida	29.89	759.2	29.93	760.2	77.5	25.3	89	s.	10	4.5		2 cs	2 k		s.	0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.07	738.4	29.72	754.9	48.0	8.9	86	sw.	8	3.6		6 k	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.96	761 0	29.98	761.5	82	27.8	88	sw.	6	2.7		2 cs	1 k	w.	sw.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.89	759.2	29.91	759.7	71	21.7	94	ne.	4	1.8			10s;fg			0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.86	733.0	29.88	758.9	59	15.0	97	sw	8	3.6			10 s		sw.	0.90	22.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.83	732.3	29.60	751.8	57	13.9	93	nw.	6	2.7			10 n			2.00	50.8	light rain	S. C. Emery.
Leavenworth, Kansas	28.90	734.0	29.78	756.4	57	13.9	93	nw.	8	3.6			10 s		ne.	0.26	6.6	cloudy	T. S. Outram.
Lewiston, Idaho	29.09	738.9	29.92	760.0	43.0	6.1	68	calm	0	0			sk.			0	0	clear	W. U. Simons.
Little Rock, Arkansas	29.65	753.1	29.96	761.0	50	10.0	77	calm	0	0		0	0			0	0	clear	T. S. Collins.
Los Angeles, California	29.48	748.8	29.87	758.7	63	17.2	90	ne.	5	2.2		0	0			0	0	clear	L. M. Dey.
Louisville, Kentucky	29.24	742.7	29.79	756.7	54	12.2	77	sw.	7	3.1		0	3 s		sw.	0.13	3.3	clear	Louis Duane.
Lynchburg, Virginia	29.19	741.4	29.87	758.7	61	16.1	87	ne	1	0.4			10 n		ne.	0.21	5.3	light rain	D. B. Notson.
Mackinaw City, Michigan	28.99	736.3	29.64	752.8	56.0	13.3	96	e	3	1.3			fg.			0.01	0.3	dense fog	William Daly.
Macon, Fort, North Carolina	29.90	759.4	29.91	759.7	68.0	20.0	97	calm	0	0			10 s			0.40	10.2	cloudy	F. Burke.
Maginnis, Fort, Montana	25.78	654.8	30.18	766.6	38	3.3	36	se.	2	0.9		0	0			0	0	clear	J. Gilligan.
Marquette, Michigan	28.96	735.6	29.68	753.9	52.0	11.1	93	calm	0	0			10 s			0	0	cloudy	D. T. Flannery.
Memphis, Tennessee	29.01	752.1	29.95	760.7	55	12.8	69	sw.	15	6.7		0	0			0	0	clear	W. Line.
Milwaukee, Wisconsin	28.90	734.0	29.64	752.8	53	11.7	86	sw.	13	5.8		0	0			0.15	3.8	clear	J. H. Young.
Missoula, Fort, Montana																			H. U. Jones.
Mobile, Alabama	29.92	760.0	29.96	761.0	65	18.3	48	n.	7	3.1		4 k	6 s		sw.	0.01	0.3	cloudy	Geo. E. Franklin.
Montgomery, Alabama	29.73	755.1	29.96	761.0	65	18.3	63	nw.	7	3.1		4 cs	5 s	w.	nw.	0.07	1.8	cloudy	H. Bessant.
Moorhead, Minnesota	28.88	733.5	29.87	758.7	43	6.1	100	n.	7	3.1			fg.			0	0	dense fog	S. W. Beall.
Mt. Washington, N. H.	23.86	606.0	30.01	762.2	44.7	7.1	47	nw.	30	13.4		6ck;cs	0	nw.		0	0	fair	L. N. Jesunofsky.
Nashville, Tennessee	29.32	744.7	29.89	759.2	54.0	12.2	83	s.	3	1.3		2 ck	0	sw.		0.80	20.3	clear	J. H. Sherman.
New Haven, Connecticut	29.88	758.9	29.99	761.7	59	15.0	93	e	3	1.3			10 s			0	0	cloudy	J. G. Lynch.
New London, Connecticut	29.97	761.2	30.02	762.5	59	15.0	100	calm	0	0			10s:fg			0	0	cloudy	M. Herman.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	68.5	20.3	49	n	12	5.4		6 cs	3 s	w.	sw.	0	0	cloudy	H. J. Peurod.
New York, New York	29.79	756.7	29.96	761.0	63	17.2	93	ne.	9	4.0			10 n			inap.	inap.	light rain	Wm. Davis.
Norfolk, Virginia	29.89	759.2	29.92	760.0	69.1	20.6	93	calm	0	0			10 s			0.02	0.5	cloudy	E. F. Brady.
North Platte, Nebraska	27.11	688.6	29.99	761.7	40.6	4.8	89	w.	5	2.2		0	0			0	0	clear	J. Dascomb.
Olympia, Washington T'y.	29.90	759.4	29.94	760.5	44.0	6.7	93	calm	0	0		0	0			0	0	clear	A. Pollak.
Omaha, Nebraska	28.68	728.5	29.85	758.2	56 2	13.4	92	nw.	6	2.7		0	8 s		n.	1.16	29.5	cloudy	P. H. Rey.
Ooglaamie, Alaska																			J. G. Linsley.
Oswego, New York	29.53	750.0	29.85	758.2	59.0	15.0	81	s.	7	3.1			10 s		sw.	0	0	cloudy	L. M. Pindell.
Palestine, Texas	29.54	750.3	30.09	764 3	57.0	13.9	57	nw.	8	3.6		9 ck	0	sw.		0	0	cloudy	M. McGauran.
Pensacola, Florida	29.91	759 7	29.94	760.5	67.3	19.6	50	n.	12	5.4			10 s		sw.	0.22	5.6	light rain	T. F. Townsend.
Philadelphia, Pa	29.82	757.4	29.92	760.0	63	17.2	100	ne.	7	3.1			ton;fg			inap.	inap.	clear	H. Hall.
Pike's Peak, Colorado	17.96	456 2	29.94	760.5	17	− 8.3	87	ne.	20	8.9		0	0			0	0	light rain	G. C. Schaeffer.
Pittsburg, Pennsylvania	29.00	736.6	29.79	756.7	60.0	15.6	87	se.	5	2.2			10 n		se.	0.27	6.9		M. J. Wright, jr.
Poplar River, Montana																		fair	M. H. Perry
Port Huron, Michigan	29.01	736.8	29.68	753.9	62.0	16.7	93	s.	4	1.8		0	5 s		s.	0.09	2.3	fair	W. W. Eichelberger.
Portland, Maine	29.90	761.0	30.00	762.0	59.0	15.0	75	s.	6	2.7		2 cs	4 s	w.	w.	0	0	light smoke	M. L. Hearne.
Portland, Oregon	29.83	757.7	29.90	759.4	50.0	10.0	86	calm	0	0		0	sk.			0	0		F. P. Chaffee.
Portsmouth, N. C.																		clear	N. D. Lane.
Prescott, Arizona	24.85	631.2	29.95	760.7	43	6.1	51	sw.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Provincetown, Mass	30.00	762.0	30.03	762.7	62.5	16.9	80	se.	4	1.8		2cs;ck	0	w.		0	0		W. J. Evans.
Punta Rassa, Florida																		clear	J. R. Williams.
Red Bluff, California	29.50	749.3	29.85	758.2	67	19.4	28	n.	5	2.2		0	hz.			0	0		E. W. McGann.
Rochester, New York																		dense smoke	J. J. Nanry.
Roseburg, Oregon	29.38	746.2	29.93	760.2	50.5	10.3	83	ne.	1	0.4			sk.			0	0	clear	J. A. Barwick
Sacramento, California	29.77	756.1	29.84	757.9	67.0	19.4	55	se.	9	4.0		0	0			0	0	clear	J. H. Weber.
St. Louis, Missouri	29.20	741 7	29 81	757.2	50.0	10.0	86	w.	14	6.3		0	3 k		w.	0	0	cloudy	A. P. Leavitt.
St. Michael, Fort, Alaska	29.52	749.8	29.55	750.6	42	5.6	82	se.	10	4 5			10 s			0	0	cloudy	P. F. Lyons.
St. Paul, Minnesota	28.86	733.0	29.71	754.6	55.0	12.8	93	nw.	8	3.6		8 k	0	ne.		0.08	2.0	fair	C. B. Dilley
St. Vincent, Minnesota	29.11	739.4	29.98	761.5	44	6.7	93	n	3	1.3		5 c	0			0	0	clear	J. Craig.
Salt Lake City, Utah	25.70	652.8	29.95	760.7	54	12.2	43	se.	2	0.9		0	0			0	0		J. H. Davis.
San Antonio, Texas																		clear	F. R. Day.
San Diego, California	29.75	755.6	29.82	757 4	70.0	21.1	12	ne.	8	3.6		0	0			0	0	clear	J. B. Marbury.
Sanford, Florida	29.88	758.9	29.93	760.2	76	24.4	90	s.	8	3.6		2 c	0	sw.		inap.	inap.	cloudy	B. F. Hough.
Sandusky, Ohio	29.03	737 3	29.70	754.4	62	16.7	87	s.	4	1.8			10 ks		s.	0.07	1.8	cloudy	B. A. Blundon
Sandy Hook, New Jersey	29.92	760.0	29.95	760.7	65.0	18.3	93	e.	15	6.7			10 s		e.	0.02	0.5	dense fog	N. Gorom.
San Francisco, California	29.86	758.4	29.93	760.2	55	12.8	96	sw.	12	5.4			fg.			0	0		H. U. Jones.
Santa Fé, New Mexico																		fair	H. W. Ford.
Savannah, Georgia	29.81	757.2	29.90	759.4	76	24.4	90	se.	5	2.2		6 ck	0	sw.		0	0	dense smoke	S. W. Morrison.
Shaw, Fort, Montana	20.48	672.6	30.08	764.0	32	0.0	81	w.	7	3.1			sk.			0	0	cloudy	E. N. Meekins.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	54.0	12.2	77	w	3	1.3			10 s		w.	0	0	clear	W. M. Mattingly.
Sill, Fort, Indian Territory	28.83	732.3	30.05	763.3	48	8.9	77	n.	4	1.8		0	0			0	0	clear	F. W. Fickett.
Sitka, Alaska	29.85	758.2	29.91	759.7	47.6	8.7	86	calm	0	0		0	0			0	0	clear	J. B. Campbell
Smith, Fort, Arkansas	29.52	749.8	29.99	761.7	46.2	7.9	93	w.	2	0.9		0	0			0	0	cloudy	O. Parker.
Smithville North Carolina	29.89	759.2	29.93	760 2	69.5	20.8	98	n.	2	0.9			10 s		n.	0.39	9.9	dense smoke	John F. Hemenway.
Spokane Falls, Wash. Ter.	27.95	709.9	29.99	761.7	40	4.4	73	calm	0	0			sk.			0	0	fair	T. B. Jennings.
Springfield, Illinois	29.10	739 1	29.76	755 9	49	9.4	82	sw.	7	3.1		0	5 s		sw.	0	0		C. Dill.
Starkville, Miss																		clear	Louis Dorman.
Stockton, Fort, Texas	27.13	689.1	30.09	764.3	48	8.9	86	sw.	0	2.7		0	0			0	0	clear	R. C. Lord.
Thomas, Camp, Arizona					52	11.1	38	calm				0	0			0	0	threatening	A. Buell.
Toledo, Ohio	29.00	736.6	29.68	753 9	63	17.2	84	sw.	7	3.1			10 s		sw.	0.33	8.4		J. L. Whiteside.
Tucson, Arizona																		threatening	Samuel Applegate.
Unalaskka, Alaska	29.58	751.3	29.61	752.1	37	2.8	72	nw	8	3.6			10 s		nw.	0.26	6.6	clear	E. B. Montgomery.
Yefde, Fort, Arizona					50	10.0	30	nw.			1	0	0			0	0	cloudy	James Kenealy.
Vicksburg, Mississippi	29.78	756.4	30.03	762.7	62.0	16.7	60	nw.	1	0.4		0	8 s		w.	0	0		O. D. Stewart.
Visalia, California																			T. M. Ambler.
Washakie, Fort, Wyoming																		light rain	B. M. Pursselt.
Washington, D. C	29.80	756.9	29.91	759.7	61.9	16.6	94	ne.	2	0.9			10 n		ne.	0.03	0.8	clear	F. H. Brandenburg.
West Las Animas, Colorado	20.13	603.7	29.95	760.7	37.5	3.1	68	sw.	4	1.8		0	0			0	0		B. F. Hough.
Williamsport, Pa																		cloudy	Samuel A. Haney.
Wilmington, N. Carolina	29.86	758.4	29.92	760.0	69.0	20.6	93	ne.	1	0.4			10 s		ne	0.46	11.7		J. Grover.
Winnemucca, Nevada																		cloudy	E. H. Thompson.
Yankton, Dakota	28.60	726.4	29.89	759.2	54.7	12.6	92	nw.	6	2.7			10 s		nw.	inap.	inap.	clear	W. S. Delano.
Yuma, Arizona	29.65	753.1	29.79	756.7	67.4	19.7	50	calm	0	0		0	0			0	0		
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			2		8 n		ne.	0.02	0.5	cloudy	W. H. Jackson.
Bogota, U. S. C	22.09	561.2			54.0	12.2	71	nw.	2	0.9			10 s		ne.	0.012	0.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.04	763.0	76.4	24.7	87	n.	2	0.9		10 cs	0	n.		0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	82	se.			2	4 c	0			0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	75	23.9	89	calm			0	6 ck	4 ks	calm	calm	0.61	15.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	91	ne.			1	cs		se.		0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	29.88	758.9	29.94	760.5	35.5	1.9	95	nw.	14	6 3		3 k	3 s	nw	nw.	0	0		Fortescue & W. Co.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 39° 15′, E. 22° 49′	29.89	759.2	80	26.7	74	w.			4		8	w.				sm'h		d. clouds.
H. M. S. Coquette, N. 36° 40′, E. 11° 50′	30.12	765.0	73	22.8		nw.			4		3	wnw.				4	w.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.06	763.5	79	26.1	74	ese.			3		4	ese.						d. clouds.
H. P. M. S. Duoro, St. Thomas, Gulf of Guinea	29.98	761.6														4	sw.	
H. M. S. Griffon, N. 41° 17′, W. 66° 30′	30.06	763.5	59.5	15.3	91	e.			2		9	ssw.					ene.	d. clouds.
H. M. S. Himalaya, N. 46° 12′, W. 11° 03′	29.84	757.9	65	18.3	89	ssw.			4		6	sw.				3	sw.	squally.
H. M. S. Iris, off Port Said, Egypt	29.95	760.7	82	27.8	71	nne.			5-6		1	nnw.						squally.
H. M. S. Tenedos, Croc Harbor, N. F	29.92	760.6	46	7.8	92	calm			0		7	calm						
H. M. S. Tyne, N. 20° 20′, W. 22° 16′	30.09	764.3	83	28.3	71	ne.			5		0					4	ne.	misty.
U. S. Navy Yard, Portsmouth, N. H *	29.98	761.5	59	15.0	82	sw.	2	0.9			2		w.	0	0			fair.
U. S. S. Alliance, St. Johns, N. F	30.04	763.0	54	12.2	93	sw.			2		10		calm	0	0	sm'h		foggy.
U. S. S. Galena, N. 29° 59′ W. 68° 45′	30.08	764.0	81	27.2	90	sw.			3		8		sw.			mod.	wnw.	fair.
U. S. S. Jamestown, N. 25° 57′, W. 24° 34′	30.21	767.3	76	24.4	91	e.			4		5					sm'h	ese.	fair.
U. S. S. Kearsarge, Lisbon, Portugal	30.26	768.6	76	24.4	68	wsw.			2		2		calm					fair.
U. S. S. Lancaster, N. 36° 23′, W. 4° 25′	30.14	765.5	76	24.4	73	ssw.			1		2		ssw.			sm'h		fair.
U. S. S. Portsmouth, Newport, R. I	30.03	762.7	62	16.7	100	e.			1		8		e.					fair.
U. S. S. Powhatan, N. 46° 28′, W. 56° 02′	30.06	763.5	58	14.4	94	nne.			1		10							overcast.
U. S. S. Quinnebaug, N. 43° 27′, E. 10° 03′	30.16?	766.1?	73	22.8	72	w.			2		2		w.			sm'h		fair.
U. S. S. Saratoga, N. 41° 12′, W. 72° 22′	30.04	763.0	64	17.8	89	ese.			3		8		ese.	0	0	sm'h		cloudy
U. S. S. Swatara, Georgetown, P. E. I.	30.02	762.5	58	14.4	88	w.			1		2		w.	0	0	sm'h		clear.
U. S. S. Vandalia, Halifax, N. S	30.11	764.8	59	15.0	88	nw.			2		5		nw.					fair.
U. S. S. Yantic, N. 41° 48′, W. 63° 24′	30.18	766.6	60	15.6	88	wsw.			2		8					sm'h		cloudy.
S. S. British Crown, N. 44° 10′, W. 50° 42′†	30.06	763.5	62	16.7		n			1		7		n.	0	0	sl't	nne.	
S. S. British Prince, N. 50° 29′, W. 36° 27′*†	29.52	749.8	48	8.9		wnw.			6		10			rain	rain	r'gh	nw.	overcast.
S. S. Ohio, Philadelphia, Pa †	29.96	761.0	63	17.2	94	ne.			3		10		ene.	4 h'r	4 h'r			clear?
S. S. Circassian, N. 50° 00′, W. 58° 55′	29.97	761.2	54	12.2	93	s.			4		1		s.			2	s.	blue sky.
S. S. Grecian, N. 56° 15′ W. 35° 00′	29.13	739.9	54	12.2	93	nne.			3		10			20 h'r	20 h'r	sm'h		drizzling.
S. S. Nova Scotian, Halifax, Canada	30.11	764.8	56	13.3		calm			0		0							clear.
S. S. Polynesian, Montreal, Canada	29.92	760.0	63	17.2		wsw.			2		3		sw.	0	0			fair.
S. S. Prussian, Glasgow, Scotland			56	13.3		s.			2		10		sse.	1 h'r	1 h'r			cloudy.
S. S. Scandinavian, N. 51° 23′, W. 29° 24′	29.37	746.0	53.5	11.9		w.			6		10		w.	sh'rs	sh'rs	short	w.	showery.
S. S. Jason, N. 49° 43′, W. 9° 45′			60.4	15.8		wsw.			4		5 k					4	wsw.	foggy.
S. S. Alvo, off Port Simon, Costa Rica, W. I*	30.05?	763.3?	78	25.6		w.			3		8		calm	0	0	long	ene.	fine.
S. S. Avilla, St. Anns, Jamaica, W. I*†	30.05	763.3	79	26.1		calm			0		4			rain	rain	sm'h		
S. S. Assyria, N. 40° 00′, W. 22° 48′	29.83	757.7	72	22.2	90	ssw.			6		9		ssw.	2 h'r	2 h'r	5	ssw.	cloudy.
S. S. Devonia, N. 41° 41′, W. 63° 24′ *†	30.13	765.3	59	15.0		e.			1		4		nw.			sl't	e.	clear
S. S. Furnesia, Liverpool, Eng †	29.61?	752.1?	65	18.3	89	w.					5			11 h'r	11 h'r			rainy.
S. S. Gallia, N. 51° 14′, W. 14° 48′	29.53	750.0	62	16.7	88	sw.			7		5		sw.	sh'rs	sh'rs	mod	sw.	squally.
S. S. Pavonia, N. 45° 31′, W. 41° 43′*	29.95	760.7	58	14.4	?	nnw.			6		9		n.	2 h'r	2 h'r	mod	cross	cloudy.
S. S. Scythia, N. 41° 03′, W. 66° 19′	30.12	765.0	63	17.2	83	sse.			1		7?		sw.	0	0	sm'h		clear?
S. S. Samaria, N. 50° 40′ W. 18° 00′*	29.40	746.7	60	15.6		sw.			6		7		wsw.	3 h'r	3 h'r	r'gh	sw.	cloudy
S. S. Canada, N. 47° 42′, W. 47° 03′*	29.93	760.2	55.4	13		nw.			4		8		nw.	0	0	r'gh	ne.	covered.
S. S. Wisconsin, N. 51° 28′, W. 16° 36′*	29.28	743.7	61	16.1		sw.			6		8		sw.	5 h'r	5 h'r	r'gh	sw.	cloudy.
S. S. Bohemia, N. 48° 10′, W. 22° 00′ †	29.60	751.8				w.			5		5		w.	0	0	long	w.	fair.
S. S. Gellert, Dover, Eng	29.79	756.7	56	13.3	87	s.			5		10		sw.	5 h'r	5 h'r	mod.	s.	covered.
S. S. Rugia, N. 40° 41′, W. 69° 21′	30.08	764.0	62	16.7		se.			2		5		sw.	0	c	mod	se.	fair.
S. S. Silesia, Hinder, Netherlands	29.73?	755.1?	61.2	16.2		ssw.			6		10		ssw.	2 h'r	2 h'r	cross	ssw.	stormy.
S. S. Westphalia, N. 46° 29′ W. 49° 02′			55	12.8	?	nnw.			4		8		w.	0	0	long	n.	cloudy.
S. S. Rhaetia, N. 41° 50′, W. 63° 00′ *	30.10	764.4	59	15.0		ese.			3		7		e.	0	0	sm'h	e.	fair.
S. S. City of Paris, N. 45° 28′, W. 51° 06′*	30.07	763.8				nnw.			3		9		n.	0	0	mod.	ene.	gloomy.
S. S. Nessmore, N. 39° 20′, W. 66° 58′ *	30.04	763.0	73	22.8	100	ssw.			5		5?		sw.	0	0	mod.	sw.	cloudy?
S. S. Archimedes, N. 46° 55′, W. 27° 27′	29.59	751.6				w			4		4		w.	½ h'r	½ h'r	high	wnw.	fine.
S. S. Hevelius, N. 37° 11′ W. 14° 00′ *†	30.22	767.6	74	23.3		wsw.			3		8		w.	0	0	long	w.	cloudy.
S. S. Teneirs, N. 1° 46′, W. 28° 50′	30.05	763.3	81.2	27.3	74	se.			4	cs	7 k	sse.	nnw.	0.95	24.1	4	e.	misty.
S. S. Sirius, N. 24° 32′, W. 21° 15′	30.15	765.8				e.			2		1		e.	0	0	mod.	e.	clear.
S. S. Chalmette, N. 33° 51′, W. 77° 19′ †	29.95	760.7	74	23.3		calm			0		9		s.	3 h'r	3 h'r	mod.	ene.	cloudy
S. S. Lone Star, N. 25° 11′, W. 80° 09′ *†	30.00	762.0	84	28.9		s.			3		3		s.	0	0	sm'h	s.	squally.
S. S. Alleghany, N. 38° 10′, W. 75° 45′ †	29.91	759.7	70	21.1		se.			3		8		s.	light	light	long	e.	
S. S. Archimede, N. 38° 50′, E. 9° 40′			76	24.4		nw.			4		1		nw.	0	0	r'gh	nw.	clear.
S. S. City of Merida, N. 19° 11′, W. 96° 08′*†	30.06	763.5	81	27.2		nw.			5		10		nw.	0	0	mod.	nw.	squally.
S. S. City of Washington, N. 21° 20, W. 89° 38′*†	29.90	759.4	80	26.7		nw.			5		2		nw.	0	0	light	nw.	fine.
S. S. Cienfuegos, N. 20° 10′, W. 78° 24′*	30.00	762.0	83	28.3		ese.			3		7		ese.	2 h'r	2 h'r	gentle	ese.	squally.
S. S. Canada, Wolf Rock, Eng			60	15.6		w.			6		10		calm	8 h'r	8 h'r	r'gh	wsw.	misty.
S. S. Denmark, New York, N. Y †	30.00	762.0	62	16.7		e.			3		8			0	0			cloudy.
S. S. Egypt, N. 41° 12′ W. 62° 30′	30.18	766.6	70	21.1		e.			1		10		ese.	0	0	mod.	e.	cloudy.
S. S. England, N. 50° 23′, W. 21° 02	29.41	747.0				wnw.			6		8		wnw.	sh'rs	sh'rs	high	w.	cloudy.
S. S. Greece, N. 41° 50′, W. 62° 50′	30.10	764.5	61	16.1	94	w.			2		8		w.	0	0	sm'h	var.	cloudy.
S. S. Helvetia, N. 49° 06′ W. 36° 01′	29.58	751.3	60	15.6	100	w.			5		5		w.	0	0	r'gh	w.	fair.
S. S. Fulda, N. 49° 40′, W. 36° 52′	29.61	752.1	53.6	12.0	70	w.			5		3		w.	2 h'r	2 h'r	long	var.	clear.
S. S. Hermann, N. 40° 08′, W. 69° 04′	30.03	762.7	70.7	21.5	85	sse.			4		9		sse.	1 h'r	1 h'r	mod.	sse.	cloudy.
S. S. Oder, N. 41° 31′, W. 63° 36′			60.8	16.0		se.			1		8		sse.	0	0	sm'h	e.	cloudy.
S. S. Ohio, N. 49° 08′, W. 20° 06′	29.52	749.8				wsw.			6		3		wsw.	3 h'r	3 h'r	rg'h	wsw.	clear.
S. S. Rhein, N. 44° 50′, W. 41° 17′	29.84	757.9	60.8	16.0		nw.			6		5		nw.	0	0	cross	nw.	fair.
S. S. Salier, N. 52° 19′, E. 3° 13′*	29.78	756.4	57.2	14.0	78	se.			6		10		se.	2 h'r	2 h'r	high	se.	covered.
S. S. Strassburg, N. 50° 15′ W. 20° 48′	29.35	745.5	66.5	19.2	03	w.			6		7		w.	3 h'r	3 h'r	7	w.	clearing.
S. S. Werra, N. 49° 46′, W. 34° 52′	29.57	751.1	51.8	11.0		nw.			5-6		4		nw.	0	0	r'gh	nw.	fair.
S. S. Weser, N. 26° 24′, W. 76° 40′	30.10	764.5	82.4	28.0		s.			3		2		sw.	½ h'r	½ h'r	mod.	s.	clear.
S. S. City of Augusta, N. 37° 19′ W. 74° 12						ne.			6		10?		ne.	0	0	h'vy	ne.	clear.?
S. S. Muriel, Saint Thomas, W. I	30.00	762.0	83	28.3		e.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 33° 30′, W. 65° 55′*†	30.00	762.0	76	24.4		s.			3		8		s.	1 h'r	1 h'r	h'vy	e.	squally.
S. S. Belgenland, N. 49° 41′, W. 7° 15′†	29.74	755.4	62	16.7	94	w.			6		7		w.	1 h'r	1 h'r	long	sw.	fair.
S. S. Pennland, N. 42° 50′, W. 61° 15′			62	16.7	94	w.			2		0			0	0	sm'h		clear.
S. S. Vaderland, Antwerp, Belgium			56	13.3		sse.			6		7		sw.	2 h'r	2 h'r			fair.
S. S. Waesland, N. 50° 26′, W. 23° 24′	29.43	747.5	60	15.6		wsw			6		6		wsw.	1½h'r	1½h'r	r'gh	wsw.	fair.
S. S. P. Caland, Jersey City, N. J	29.99	761.7	66.6	19.2	90	ne.			4									rainy.
S. S. W. A. Scholten, N. 49° 50′, W. 5° 34′			61.7	16.5	95	sw.			6		7		sw.	10 h'r	10 h'r	5	sw.	squally.
S. S. Caracas, Curacoa, Venezuela*†	30.01	762.2	84	28.9	82	ese.			4		3		ese.	0	0	light	e.	clear
S. S. Valencia, N. 34° 51′, W. 72° 16′ †	29.92	760.0	79	26.1	86	ssw.			7		5		sw.	4 h'r	4 h'r	h'vy	var.	clearing.
S. S. State of Georgia, N. 41° 33′, W. 65° 09′	30.13	765.3	59	15.0		e.			2		9		sw.	5 h'r	5 h'r	sm'h		drizzling.
S. S. State of Indiana, N. 55° 18′, W. 14° 15*†	29.00	736.6	57	13.9		s.			4		5		sw.	12 h'r	12 h'r	r'gh	ese.	fair.
S. S. State of Nevada, Glasgow, Scotland †	29.40	746.7	58	14.4		ene.			4		0?			driz.	driz.			cloudy.?
S. S. State of Nebraska, N. 54° 51′, W. 17° 14′*†	29.02	737.1	54	12.2		s.			6		10		w.	0	0	high	s.	rainy.
S. S. Thingvalla, N. 58° 04′, W. 13° 56′†	29.30?	744.2?	55.4	13.0		sse.			4		10			2 h'r	2 h'r	mod.	sse.	foggy.
S. S. Romano, N. 45° 33′, W. 31° 42′			64	17.8		w.			5		5		w.	0	0	sm'h		fair.
S. S. Salerno, N. 48° 28′, W. 25° 10′ *†	29.60	751.8	64	17.8		wnw.			5		5		wnw.	0.5	13.	h'vy	wnw.	fair.
S. S. Lake Huron, N. 54° 31′, W. 45° 43′	29.72	754.9	42	5.6		nw.			4		8		n.	0	0	mod	var.	cloudy.
S. S. Lake Manitoba, N. 56° 24′, W. 35° 11′	29.08	738.6	52	11.1		ene.			4		9		e.	20 h'r	20 h'r	mod.	e.	raining.
S. S. Daniel Steinmann, Antwerp, Belgium *†	29.79	756.7	57	13.9		s.			4		10			8 h'r	8 h'r			raining.
S. S. Saxon, Boston, Mass †	29.95	760.7				ssw.			1		10			0	0			threatening
S. S. Britannic, N. 41° 30′ W. 60° 00′†	30.17	766.3	67	19.4		ese.			1		4		se.	0	0	long	se.	d. clouds.
S. S. Celtic, N. 50° 16′ W. 31° 23′†	29.53	750.0	61	16.1	71	nw.			6		5		nw.	5 h'r	5 h'r	h'vy	w.	squally.
S. S. Iowa, N. 43° 13′, W. 65° 51′†	30.06	763.5	58	14.4		sw.			2		5		sw.	0	0	sm'h		fair.
S. S. Algiers, N. 26° 25′, W. 85° 42′*†	29.90	759.4				s.			5								n.	raining.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. City of Alexandria, N. 36° 15', W. 79° 45'†*	29.94	760.5	86	30.0		ssw.			6							h'vy	ne.	d clouds.
Bk. Arda, N. 49° 21', W. 15° 48'†.	29.46	748.3				sw.			3		3?		sw.	o	o	h'vy	wsw.	cloudy.?
Bk. Alpheus Marshall, N. 28° 30', W 28° 48'*†	30.18	766.6	78	25.6	95	sse.			2		4		sse.	o	o	mod.	wnw.	fair.
Bk. Ariadne, N. 40° 24', W. 65° 34'	30.17	766.3	72	22.2	80	sse.			3		3		sse.	o	o	cross	ene.	clear.
Schr. Arthur Burton, Boston, Mass†	30.03	762.7				calm			0		sk.			o	o	sm'h		clear.
Schr. Abbie H. Gheen, Gloucester, Mass.†	30.05	763.3	63	17.2		calm			0									clear.
S. S. Antonio Lopez, Santander, Spain	30.03	762.7	72	22.2	76	ne.			4		9			o	o	mod.	ne.	cloudy.
Bk. Adelaide, N. 12° 50', W. 38° 19'*†	30 13	765.3				ene.			2		6		ene.	1 h'r	1 h'r	light	se.	fair.
Bg. Belle of the Bay, N. 24° 27', W. 81° 52'†	29.99	761.7				ssw.			5		5		ssw.	o	o	chop	s.	fair.
S. S. Cannonbury, N. 23° 45', W. 67° 44'*†..	30.10	764.5				var.			1		2		ne.	o	o	light	ne.	clear.
Bk. Celestina, Genoa, Italy*†	30.11	764.8				wsw.			2		3			o	o			clear.
Bk. Ceylon, N. 32° 10', W. 44° 37'†	29.98	761.5	77	25.0	77	n.			6		7		nne.	½h'r	½h'r	r'gh	nnw.	squally.
Schr. C. R. Flint, N. 24° 17', W. 55° 40' †	29.99	761.7	83	28.3		w.			2		2		w.	o	o	mod.	ene.	clear
Bk. Don Justo, N. 46° 55', W. 49° 18'						ne.			1		10		ne.	o	o	mod.	ne.	overcast.
Bk. Childwall, N. 13° 50', W. 26° 00'			84	28.9	79	ene.			3		3		ne.	o	o	sm'h		clear.
Bkt. David A. Preston, N. 43° 40', W. 67° 00'						ssw.			3		5		w.	o	o	sm'h		threatening.
Bk. Diamant. N. 37° 52', W. 58° 36'	30.19	766.8	72.0	22.2	77	ne.			2	6 c				o	o	3	ene.	fair.
S. Dynomine, N. 43° 45', W. 12° 10'	29.95	760.7	66	18.9	94	sw.			4		6			mod.	mod.	high	wsw.	misty.
S. Dora, Hampton Roads, Va.*†	29.90	759.4	71.1	21.7		e.			2		7		se.	o	o			fair.
S. David Stewart, N. 29° 59', W. 66° 43'†	30.00?	762.0?	92?	33.3?		var.			1		4		ssw.	o	o	long	ne.	
S. E. J. Spicer, Antwerp, Belgium	29.84	757.9	57	13.9	87	sse.			5		10		s.	2 h'r	2 h'r			raining.
Schr. Edith R. Seward, St. Simon's Id., Ga†	29.93	760.2	80	26.7		ssw.			2		4		sw.	o	o			clear.
Bk. E. D. Bigelow, Galveston, Texas†	30.00	763.5	73	22.8		n.			1		0			o	o			clear
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	30.11	764.8	69	20.6		ese.			2		4		e.	o	o			fair.
S. Gatherer, N. 22° 07', W. 38° 00'*	30.03	762.7	81	27.2	83	var.			2		6		n.	¼ h'r	¼ h'r		ese.	fair.
Bg. George, Salinas, Porto Rico, W. I						ne.			1		0			o	o			clear.
Bk. Galeon, N. 29° 48', W. 18° 15'†	30.23	767.8	75	23.9		e.			4		5		e.	o	o		nw.	blue sky.
Bk. Grey Eagle, N. 12° 17', W 36° 30'									5		1			½h'r	½h'r	sm'h		clear.
S. Hedwig, N. 28° 03', W. 20° 07'	30.23	767.8	78.1	25.6	80	ne.			3		3		var.	o	o	2-4	var.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	29.92	760.2				ssw.			3		4		sw.	h'vy	h'vy			fair.
Bk. Johanne, N. 46° 29', W. 47° 00'*†	29.95	760.7	49	9.4		n.			4		8		nw.	5 h'r	5 h'r	mod.	n.	fine.
Schr. John L. Thomas, N 33° 20', W. 77° 42' *†	29.92	760.0	80	26.7	91	calm			0		2		sw.	½h'r	½h'r	mod.	ne.	clear.
Schr. Jennie N. Huddell, Delaware Bay †	29.93	760.2	68	20.0	100	ese.			2		10		se.	rain	rain			raining.
Bk. John H. Pearson, N. 40° 17', E. 2° 05'						sw.			3				sw.			sm'h		cloudy
Schr. Jas. Slater, N. 8° 20', W. 53° 00'†	30.05	763.3				ne.			4		5		calm	o	o	mod.	sne.	
Bg. Josefa, N. 47° 40', W. 38° 35' †...	29.09	754.1				wnw.			5		3		nw.	o	o	r'gh	nw.	fair.
Bkt. Kryolith, N. 47° 17', W. 52° 20' *†	30.08?	764.0?				n.			1		5		n.			light		fair.
Bk. Lady Hincks, N. 33° 36', W. 35° 24' *†	30.10	764.5							3-5					rain	rain			
Bg. L. & W. Armstrong, N. 28° 10', W. 67° 28' *†	30.00	763.5				calm			0		1		nnw.	o	o	mod.	nne.	fine.
S. S. Madrid, Taganrog, Russia†...	29.78	756.4	66	18.9	89	se.			5		9		se.	2 h'r	2 h'r			raining
Bk. Orpheus, N. 40° 50', W. 58° 26'			78?	25.6?		s.			7		8		sw.	4 h'r	4 h'r	mod.	s.	cloudy.
Schr. Rollin Sanford, N. 28° 11', W. 84° 10' †	29.88	758.9				sw.			5		8		s.	rain	rain		sw.	cloudy.
Bk. Rosalie, N. 44° 21', W. 12° 20'*†	29.92	760.0				sw.			5		4		sw.	3 h'r	3 h'r	long	sw.	fair.
Schr. S. B. Hubbard, Doboy Island, Ga.†	29.91	759.7	73	22.8		ssw.			1					o	o			fine.
Bk. Saga, N. 59° 16'. E. 19° 35'*†	30.00	762.1	52	11.1		var.			1-5		7		var.	2 h'r	2 h'r	long	ssw.	fair.
Bgt. Sunlight, N. 22° 36', W. 66° 00'*†	30.04	763.0				n.			2		4		n.	½h'r	½hr	sm'h		fair.
Bk. Samuel B. Hale, N. 36° 00', W. 61° 50'						se.			5		2		s.	sq'lls	sq'lls	short	ne.	clear.
Bk. Scud, N. 35° 20', W. 69° 10'*†	29.95	760.7	82	27.8		s.			4		8		sw.	6 h'r	6 h'r	sharp	se.	clearing.
Bk. St. Lawrence, N. 28° 55', W. 59° 12'*†	30.00	762.0				ene.			6				e.	o	o	h'vy	ne	d. clouds.
Bk. Tuck Sing, N. 33° 41', W. 75° 40' *†	29.90	759.4				wsw.			3		2		wsw.	o	o	mod.	ne.	fine.
S. S. Tower Hill, N. 50° 04', W. 16° 23'*†	29.48	748.8				ssw.			6		8		s.			r'gh	s.	rain & fog.
Schr. Viola Reppard, Brunswick, Ga..						ene.			4		10		ene.	o	o			misty.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Port Camamu, Brazil	30.00	762.0	77.5	25.3	88	nne.			1		8							misty.
H. M. S. Opal, St. Helena, Africa	30.22	767.6	69	20.6	85	ese.			3		3	ese.						blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.19	766.8	55.2	12.9	97	ene.			3		10							foggy.
H. P. M S Rainha de Portugal, Landana, L. Guinea..	29.97	761.2	77.9	25.5	81	s.			2		6	s.		o	o	2		d. clouds.
H. P. M. S. Bengo, Landana, Lower Guinea	29.98	761.5	77.0	25.0	86	sw.			3		8	sw.		o	o	3	sw.	d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.17	766.3	59	13.3	94	e.	6	2.7			10		calm	o	o	sm'h		foggy.
U. S. S. Nipsic, Montevideo, Uruguay *	30.17	766.3	58	14.4	88	ne.			2		2		nw.			sm'h		clear.
S. S. Hohenstaufen, S. 7° 40', W. 33° 34'	30.10	764.5	77.9	25.5	96	ne.			4		4		ne.	o	o	mod.	ne.	fair.
Bk. Aureola, S. 2° 00', W. 29° 26'†	29.95	760.7	89	31.7		se.			5		3		se.	o	o	mod.	se.	clear.
Bk. E. L. Pettingill, S. 24° 33', W. 36° 58'*†	30.10	764.5	70	21.1		sw.			5		2		sw.	o	o	r'gh	ssw.	
Bk. Great Surgeon, S. 39° 02' E. 5° 54' *†	30.39	771.9	56	13.3		nw.			1		10		nw.	o	o	long	wsw.	foggy.
Bk. Godeffroy, S. 56° 18', W. 62° 51'	30.00	762.0	38.3	3.5	83	nw.			5		8		nw.	o	o	mod.	nw.	cloudy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.17	766.3	61	16.1		ene.			2		0			o	o			clear.
Bk. Pilgrim, S. 34° 00'. E. 15° 17 *†	30.25	768.3				sw.			5		6		sw.	2 h'r	2 h'r	cross	sw;n	
Bgt. Willie, S. 14° 10', W. 35° 05'*†	30.08	764.0	83	28.3		ne.			3		1		ne.	o	o	mod.	ese.	clear.
Bk. Mohican, S. 18° 10', W. 31° 38'	29.93	760.2	78	25.6		n.			4		9		nne.	1 h'r	1 h'r	sm'h	sse.	cloudy.
S. S. Olbers, S. 23° 04', W. 42° 45'	30.23	767.8	70	21.1	95	sw.			3		5		sw.	o	o	slt't	sw.	fine.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.13	765.3	60	15.6		nw.			2-4		4	ssw.						d. clouds.
Bg. John Wesley, S. 8° 29', W. 34° 42' *†	29.98	761.5	80	26.7		ene			1		6		ene.	½h'r	½h'r	mod.	se.	rainy.
District No. 3—North Pacific.																		
H. M. S. Audacious, St. Vladimir Bay, Siberia	29.89	759.2	53	11.7	73	calm			0		0					sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 13', E. 126° 36'	30.14	765.5	60	15.6	57	nnw.			3		1	nnw.						blue sky.
H. M. S. Magpie, N. 5° 50' E. 118° 07'	29.89	759.2	81.5	27.5	87	calm			0		8							d. clouds.
H. M. S. Mutine, N. 0° 41', W. 86° 32'	30.00	762.0	73	22.8		sse.			3		10					2	sse.	overcast.
H. M. S. Zephyr, N. 42° 51', E. 137° 18'	29.85	758.2	57	13.9	100	w.			5		3							blue sky
H. P. M. S. Tamega, Canton, China	30.04	763.1	81.5	27.5	87	calm			0		3			o	o			blue sky
U. S. Naval Hospital, Yokohama, Japan	29.99	761.7	69.5	20.8	75	calm			0		10		ne.	o	o			cloudy.
U. S. S. Essex, Roze Island, Corea	30.15	765.8	61	16 1	88	nnw.			3		0					sm'h	nnw.	clear.
U. S. S. Hartford, Panama, Panama*	29.84	757.9	80	26.7	91	nw.			2		5			o	o	sm'h		fair.
U. S. S. Juniata, N. 0° 33', E. 104° 27'	29.97	761.2	84	28.9	100	s.			2		5		calm	o	o	sm'h		hazy.
U. S. S. Monocacy, Che Foo, China	30.18	766.6	62	16.7	66	w.			2		10		calm			sm'h		cloudy
U. S. S. Palos, South Bay, Namoa Island, China	30.06	763.5	80	26.7	70	ne.			5		2		n.					fair.
U. S. S. Pensacola, N. 20° 27', E 162° 01'*..	29.88	758.9	82	27.8	83	e			1		2		e.	mod.	mod.	mod.	e.	clear
U. S. S. Richmond, Yokohama, Japan	29.96	761.0	72	22.2	80	ssw.			1		5		ssw.	o	o			fair.
S. S. Columbia, N. 45° 58', W. 124° 12'†	29.92	760.0	60	15.6	79	s.			3		10		calm			light	s	smoky.
S. S. Oregon, San Francisco, Cal.†.	29.93	760.2	53	11.7	93	calm			0		10?		nw.					fair.?
S. S Ancon, San Francisco, Cal †	29.90	759.4	55	12.8	93	sw.			1		10							foggy.
S. S. State of California, Portland, Oregon			49	9.4	85	calm			0		0							smoky.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.91	759.7	54	12.2	100	nw.			3		2			c	o			foggy.
S. S. Victoria, San Francisco, Cal †	29.86	758.4	60	15.6	82	calm			0		2							fair.
S. S. City of New York, N. 35° 24', W. 127° 57'†	29.99	761.7	64	17.8	94	nw.			4		7		nw.			sm'h		misty.
S. S. City of Pekin, Yokohama, Japan†	30.28	769.1	70	21.1	70	ene.			1		5		s.	o	o			fair.
S. S. City of Tokio, Hong Kong, China†	30.15?	765.8?	84	28.9	87	se.			3		6		se.	o	o			cloudy.
S. S. City of Rio de Janeiro, N. 34° 55', E. 145° 18'†	29.82	757.4	75	23.9	77	n.			6		7		ne.	o	o	r'gh	nne.	gale.
S. S. Granada, Panama, Panama†	29.90	759.4	78	25.6	95	ne.			1		5?		ne.	1 h'r	1 h'r	light	s.	clear ?
S. S. San Blas, N. 19° 07', W. 105° 23'†	29.87	758.7	77	25.0		sw.			5		10		ssw.	sh'rs	sh'rs	mod.	sw.	gloomy.
S. S. Zealandia, N. 19° 01', W. 159° 17'†	30.04	763.0	77	25.0	91	ne.			4		0					sm'h		clear.
S. S. San Juan, N. 21° 34', W. 105° 28'			78	25.6		se.			2		5ks		ese.	14 h'r	14 h'r	cross	se; s.	squally.
S. Armenia, N. 4° 40', W. 114° 00'*	29.90	759.4	79	26.1	82	s.			3		5		se.	o	o	sm'h	var.	fine.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Storm King, N. 19° 49′, W. 121° 29′ *†	29.91	759.7	.....	.....	.....	nnw.	.....	.....	3	.....	7?	.....	calm	0	0	.....	n.; s.	clear.?
S. St. David, N. 40° 06′, W. 129° 51′ *†	30.22	767.6	70	21.1	90	ne.	.....	.....	2	.....	10	.....	n.	0	0	.....	.....	cloudy.
S. E. B. Sutton, N. 25° 40′ W. 120° 58′*†	29.93	760.2	69.5	20.8	92	nw.	.....	.....	4	.....	4	.....	nw.	0	0	sm'h	nnw.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.90	759.4	81.3	27.4	85	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	misty.
U. S. S. Iroquois, Callao, Peru	30.08	764.0	61	16.1	88	se	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, Arica, Peru*	30.05	763.3	61	16.1	77	sse.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	59	15.0	94	sse.	.....	.....	1	.....	10	.....	sse.	.....	.....	.....	.....	cloudy.
U. S. S. Wachusetts, S. 14° 10′, W. 76° 33′ *	30.07	763.8	60	15.6	94	se.	.....	.....	3	.....	10	.....	calm	.....	.....	.....	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W *†	30.02	762.5	62	16.7	88	nne.	.....	.....	4	.....	7 n	.....	nne.	.....	.....	.....	.....	cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.10	764.5	65	18.3	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	mod.	se.	dense fog.
S. David Crockett, S. 48° 35′, W. 102° 29′*	29.02	737.1	44	6.7	88	w.	.....	.....	5	.....	7	.....	wsw.	3 h'r	3 h'r	h'vy	se.	showery
S. Sovereign of the Seas, S. 22° 51′, W. 87° 43′*†	30.30	769.6	68	20.0	90	w.	.....	.....	1	.....	4	.....	nw.	.....	.....	long	sw.	showery.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 08′, E. 57° 29′	30.17	766.3	.....	.....	.....	ese.	.....	.....	2	.....	6	ene.	.....	.....	.....	2	ese.	d. clouds
H. M. S. Euryalus, Zanzibar, Zanzibar	30.03	762.7	81	27.2	74	wnw.	.....	.....	2	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	79	26.1	87	se.	.....	.....	2	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.91	759.7	92.5	33.6	49	nw.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Galatia, Sangor, India†	29.71	754.6	84	28.9	87	ese.	.....	.....	3	.....	8	.....	ne.	1 h'r	1 h'r	small	.....	dull.
S. S. Benledi, N. 13° —′, E. 50° 30′*	29.75	755.6	84	28.9	71	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	hazy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 25, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.15	765.7	80.6	27.0	81	s.			1		0			0	0	clear	Roziere.
Algiers			30.13	765.2	86.7	30.4	30	w.			5		0			0	0	clear	Thève.
La Galle			30.10	764.6	79.2	26.2	78	nnw.			2		2			0	0	fair	Fonfrède.
Tunis			30.12	765.0	78.8	26.0	58	e.			3		3			0	0	pretty fair	Delord.
Saida			30.18	766.6															Pérès.
Tebessa			30.13	765.4	75.2	24.0	67	n.			3		3			0	0	pretty fair	St. Martin.
Geriville					86.0	30.0	30	nw.			3		1			0	0	very fair	Forfert.
Laghouat			30.14	765.6	88.9	31.6	27	e.			2		0			0	0	clear	Abraham.
Biskra			30.13	765.4	90.3	32.4	24	w.			2		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.31	769.9	49.8	9.9	76	sw	5	2.2			10 ks			0.195	5.0	threatening	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.08	764.0	30.17	766.3	52.0	11.1	69	s.	4	1.8			10			0.03	0.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.49	749.0	30.03	762 8	62.2	16.8	73	se.			3		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.1	29.90	759.4	56.5	13.6	62	nw.	3.1	1.4			10			0.016	0.4		Dr. Wierzbiski
Eperies	29.18	741.1	30.06	763.4	55.4	13.0	66	s.			4	8 cs				0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.65	727.7	30.06	763.6	59.9	15.5	55	se.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.64	727.4	29.97	761.2	56.1	13.4	91	ene.			1		8			0.142	3.6	cloudy	The Staff.
Lemberg	29.09	738.9	30.09	764.2	51.8	11.0	62	se.			3		1			0	0		Dr. T. Stanecki.
Pola	29.87	758.8	29.98	761.6	70.5	21.4	64	wsw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.59	751.6	30.05	763.3	58.6	14.8	49	e.			3		3			0	0		Joseph Midlinszky, S. J
Szegedin	29.76	756.0	30.04	763.0	61.0	16.1	55	s.			1		10			0	0		Karl Stc..cel.
Trieste	29.93	760.2	30.03	762.7	70.0	21.6	38	n.			7		7			0	0		Royal Academy.
Vienna	29.31	744.4	30.03	762.7	51.8	11.0	92	calm			0		10			0.075	1.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.41	747.0	29.51	749.5	62.0	16.7	69	s.	8	3.6			6			0.150	3.8	d. clouds	W. Boswell.
Armagh, Observatory	29.41	747.0	29.64	752.8	61.0	16.1	77	sw.	12	5.4			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.70	754.4	62.5	16.9	64	w.	27	12.1			6					d. clouds	John Hartnup.
Bolton, Sharples	29.18	741.2	29.70	754.4	59.2	15.1	78	wsw.	18	8.0			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.29	744.0	29.69	754.1	61.5	16.4	71	w.			2		9			0.08	2.0	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	29.96	761.0	30.00	762.0	80.0	26.7	91	ne.			2		8					overcast	Corpl. W. I. Cull, A. H.C
Cardington	29.69	754.1	29.80	756.9	62.0	16.7	72	w.			1.0		9					overcast	John McLaren.
Chatham, School M. E.	29.65	753.1	29.82	757.4	64.5	18.1	68	w.			1		7					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.66	753.4	29.88	758.9	63.3	17.4	75	wsw.			3		4					d. clouds	The Staff.
Fort Napier, Natal	27.68	703.1	29.89	759.2	62.8	17.1	64	ne.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.60	751.8	29.82	757.4	85.0	29.4	79	ne.			1		3					drizzling	J. W. Smith.
Galway, Queen's College	29.59	751.6	29.62	752.3	58	14.4	88	sw.			3		8			0.10	2.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	80.8	27.1	87	w.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.38	740.2	29.59	751.6	59.3	15.2	79	sw.			4		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.81	757.2	68.7	20.4	59	wsw.			4		5					d. clouds	The Staff.
Guernsey	29.64	752.8	29.93	760.2	64.0	17.8	89	wsw.			3		3					d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.78	756.4	29.82	757.4	64.7	18.2	65	w.	12	5.4			8					d. clouds	The Staff.
Leicester, Museum	29.50	749.3	29.74	755.4	65.2	18.4	62	sw.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.02	762.5	75.2	24.0	65	nw.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	83.0	28.3	67	sw.			3		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.29	744.0	29.80	756.9	62.0	16.7	80	sw.			5		9					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.59	751.6	29.82	757.4	58.3	14.6	94	sw.			3		8					d. clouds	The Staff.
Plymouth	29.79	756.7	29.80	758.4	64.0	17.8	92	wsw.			4		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.38	746.2	29.48	748.8	56.9	13.8	83						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.88	758.9	29.95	760 7	73.0	22.8	61	ene.			2		9					gloomy	W. H. Lyne.
Sheffield	29.44	747.8	29.72	754.9	65.1	18.4	73	sw.			3		4			0.47	11.9	d. clouds	W. F. Cooper.
Silloth Rectory	29.61	752.1	29.64	752.8	60.2	15.7	88	sw.			4		7			0.355	9.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.71	754.6	59.7	15.4	74	wsw.	18	8.0			10					overcast	W. C. Carlisle.
Strathfield Turgiss					64.7	18.2	71	sw.			1.1		8					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.85	758.2	29.94	760.5	68	20.0	69	w.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.74	755.4	29.76	755.9	60.6	15.9	79	wsw.	22	9.8			4					misty	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.67	753.6	30.07	763.8	75.2	24.0	57	w.	25	11.2		5 c	4 n	w.	w.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.04	737.6	29.08	738.6	63	17.2	94	sw.	8	3.6			10 s			0	0	overcast	Hon. J. Ferguson
Charlottetown, P. E. Island	29.20	741.7	29.24	742 7	64	17.8	95	sse.	30	13.4			10 n		s.	0.670	17.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.01	736.8	29.07	738.4	63	17.2	100	s.	9	4.0			10 n		s.	0.53	13.5	light rain	G. A. Blair.
Cornwall, Ontario	28.79	731.3	28.98	736 1	52.1	11.2	96	nw.			3		10 n			0.910	23.1	overcast	Jas. Smith, M. A.
Dalhousie, N. B	28.93	734.8	28.98	736.1	56.5	13.6		e.			7		10 s			0.083	2.1	overcast	H. A. Johnson.
Edmonton, N. W. T	27.74	704.6			29	—1.7	56	calm	0	0		0	0			0	0	light fog	Alex. Taylor.
Father Point, Quebec*	28.78	731.0	28.80	731 5	45	7.2	100	ne.	20	8.9		10 k	fg.	s.		0.70	17.8	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.22	742.2	30.08	764.0	37	2.8	89	w.	5	2.2		0	7 ks		n.	0	0	fair	James Stewart.
Fredericton, N. B	29.00	736.6	29.06	738.1	62.2	16.8	87	sw.	14.0	6.3			10 s			0.664	16.9	overcast	Prof. Thos. Harrison
Grand Manan, N. B	29.14	740.1	29.19	741.4	59	15.0	87	sw.	46	20.6		7 k	0	sw.		0.77	19.6	fair	J. Chipman Seeley
Granton, Ontario	28.52	724.4	29.61	752.1	47.0	8.3	100	nw.	12	5.4			10 n			1.35	34.3	raining	Jas. Grant.
Halifax, N. S*	29.25	742.9	29.37	746.0	65	18.3	97	sw.	13	5.8			10 n		sw.	1.030	26.2	heavy rain	A. Allison.
Hamilton, Ontario	29.14	740.1	29.53	750.0	48.9	9.4	92	sw.			3	ck	0	sw.		0.38	9.7	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	28.89	733.8	29.22	742.2	55	12.8	83	w.	21	9.4		10 k		w.		1.62	41.1	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	29.56	750 8	29.59	751.6	62.0	16.7	100	se.			7							raining	C. H. Rigby.
London, Ontario	28 70	730.5	29.66	753.4	48.2	9.0	92	n.			3	10 c				0.65	16.5	raining	E. B. Reed.
Medicine Hat	27.70	705.1	30.13	765.3	33	0.6	79	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	28.77	730.7	28.97	735.8	52	11.1	86	sw.	22	9.8			10 n			1.00	25.4	raining	C. H. McLeod, C. E.
Ottawa, Ontario	28.77	730.7	29.01	736.8	53.0	11.7	96	w.					10 s			0.039	1.0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	28.70	730.5	29.46	748.3	43	6.1	83	nw.	18	8.0			10 n		nw.	1.47	37.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.69	728.7	29.44	747.8	48.7	9.3	85	nw.			4		10 n			0	0	overcast	Wm. O'Connor, M.A.
Port Dover, Ontario	28.90	734.0	29.55	750.6	52	11.1	93	w.	12	5.4		10 c	0	w.		0.27	6.9	fair	H. Morgan.
Port Stanley, Ontario	28.98	736.1	29.62	752.3	51	10.6	86	w.	14	6.3			10 n		nw.	0.74	18.8	cloudy	M. Payne.
Qu Appelle, N. W. T	27.79	705.9	30.12	765.0	34	1.1	72	sw.	10	4.5		2 cs	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	28.59	726.2	28.94	735.1	53	11.7	100	s.	20	8.9			10 n		sw.	0.59	15.0	light rain	Capt. Asne, R. N.
Rockliffe, Ontario*	28 78	731.0	29.23	742.4	46	7.8	83	nw.	25	11.2			10 s		nw.	1.17	29.7	light rain	W. H. McIntyre.
St. Andrews, N. B	29.06	738.1	29.11	739.4	60	15.6	88	sw.	17	7.6		5 k	2 ks	w.	sw.	0.54	13.7	cloudy	
St. John, N. B	29.04	737.6	29.18	741.2	56.0	13.3	100	s.	36	16.1			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F	29.57	751.1	29.81	757.2	51	10.6	93	s.			4		10 s			0	0	cloudy	The Commandant.
Saugeen, Ontario*	28.86	733.0	29.57	751.1	46	7.8	83	nw.	36	16.1			10 ks		w.	1.53	38.9	cloudy	
Stratford, Ontario	28.32	719.3	29.58	751.3	46.0	7.8	96	nw.	13 0	5.8			10 s			1.018	25.8	d. clouds	G. J. Macgregor, M. A
St. Pierre, N. F			29.84	757.9	56.5	13.6		sw.			2					0	0		The Commandant.
S. W. Point, Anticosti	29.08	738.6	29.12	739.6	55	12.8	100	se.	7	3.1			10 n		se.	0.42	10.7	heavy rain	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Sydney, C. B.	29.48	748.8	29.54	750.3	62	16.7	96	s.	28	12.5			10 n			0.41	10.4	heavy rain	T. C. Hill, C. E.
Toronto, Ontario*	29.10	739.1	29.47	748.5	52	11.1	69	w.	30	13.4		5 ck	2 ks	nw.	nw.	0.63	16.0	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.57	725.7	29.62	752.3	48.7	9.3	93	w.	21.5	9.6			10 n			0.61	15.5	overcast	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.29	744.0	29.36	745.7	58	14.4	93	sw.	21	9.4			10 k		sw.	1.13	28.7	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House.	30.20	767.1	30.23	767.8	63.0	17.2	89	w.	22.7	10.1		0	5 k			0	0	light haze	I. Garfelt.
Springbok Fontein	27.89	708.4			78	25.6	23									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	30.04	763.1	30.12	765.1	54.5	12.5	89	nw.			1		10					cloudy	Samuel Redolez.
Iquique	30.06	763.5	30.09	764.2	60.6	15.9	70	ne.			3							cloudy	Rafael Moreno.
Niebla	29.63	752.6	29.74	755.3	50.0	10.0	89	nw.			1		7		nw.			drizzling	Federico Köhling.
Punta Caldera	30.00	762.1	30.09	764.3	55.8	13.2	86	sw.			4		6 s		ne.			cloudy	Manuel Tobar.
Punta Corona	30.07	763.8	30.26	768.6				ne.			2		10			0	0	hazy	Ignacio Ayala.
Valparaiso	29.84	757.9	29.98	761.5	53.8	12.1	85	s.			1							cloudy	Paez-I-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.07	636.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.16	766.1	30.19	766.7	66.6	19.2	77	ese.	2.2	1.0			10			0	0	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.69	754.2	29.74	755.4	52.2	11.2	86	s.	18	8			10					raining	Oversergent Fischer.
Fanoe	29.77	756.2	29.65	753.1	59.2	15.1	94	wsw.	9	4			10					hazy	Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.45	748.1	29.50	749.2	46.0	7.8	71	e.	4	2			8						A. O. Thorlacius.
Thorshavn	29.45	747.9	29.47	748.5	51.1	10.6	99	se.	9	4			10					raining	Overloerer Bergh.
Vestervig	29.49	749.1	29.58	751.4	50.5	10.3	97	ese.	9	4			10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.75	755.7			83.7	28.7		n.	5.8	2.6			1 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.47	748.4	30.19	766.7	62.6	17	100	calm			0		10		nw.			raining	M. Labroue, Director.
Alençon, Normal School	29.61	752.2	30.13	765.2	66.9	19.4	83	sw.			1		8		ne.	0.008	0.2		M. Nicot, Director.
Avignon, Normal School	29.98	761.5	30.06	763.5	73.4	23	66	n.			1		5		nw.	0.12	3.	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.44	747.8	29.98	761.6	68.7	20.4	63	sw.			2		8 kn		w.	0.031	0.8	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.67	753.5	29.92	760.0	66.9	19.4	68	w.			1		8		w.	0.339	8.6	very cloudy	M. Frère Eugène Marlé.
Besançon, Normal School	29.11	739.4	30.00	762.0	68.0	20	72	ssw.			1					0.189	4.8		M. Gobin, Director.
Bordeaux, Observatory	29.83	757.6	30.09	764.2	63.1	17.3	96	sw.			1		10			0.461	11.7	raining	M. Rayet, Director.
Bourges, Normal School	29.52	749.9	30.07	763.7	65.3	18.5	77	w.			4		k		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.77	756.1	30.01	762.3	70.2	21.2	82	sw.			2		8		sw.	0.008	0.2		M. de Kermarée, Dir.
Caen, Normal School	29.84	758.0	29.93	760.1	68.0	20	69	w.			0.5		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.65	753.0	29.96	761.0	67.5	19.7	77	sw.			6		5		wnw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.42	747.3	29.92	760.0	61.7	16.5	83	wsw.			1		10			0.43	11.	raining	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.71	729.1	30.02	762.4	69.3	20.7	57	w.			1		10			0	0		M. Alluard, Director.
Cluny, Normal School	29.22	742.2	30.06	763.6	67.1	19.5	65	w.			1				w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.13	740.0	29.93	760.2	66.2	19	64	w.			4		5 kn	w.	w.	0.303	7.7	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.94	760.4	71.6	22	43	s.			1		3 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.91	734.4	30.01	762.2	71.2	21.8	61	nw.			4		9		nw.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.28	743.8	30.03	762.8	70.5	21.4	67	ne.			1	cs	k		nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.49	723.6	30.02	762.5	63.9	17.8	72	sw.			1		10 kn		sw.	0	0	covered	M. Delorme, Dir.
Lamballe, Normal School	29.63	752.6	29.91	759.6	68.0	20	55	w.			2		5		w.	0.102	2.6	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.53	750.0	30.16	766.0	70.7	21.5	64	w.			1		10 n			0.055	1.4	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.90	759.5	30.00	762.1	68.0	20.0	78	sw.			2		8	calm	sw.	0.039	1.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.0	30.06	763.4	66.7	19.3	58	n.			1	ck	10 kn		wnw.	0.020	0.5	covered	M. André, Director
Mans, Normal School	29.65	753.0	29.95	760.6	66.0	18.9		w.			4		8 kn		w.	0.193	4.9	very cloudy	M. Richard, Director
Marseille, Observatory	29.74	755.5	30.01	762.2	72.5	22.5	78	w.			1		10		wnw.	0	0		M. Stephan, Director.
Montlouis	25.02	635.6	29.87	758.6	59.9	15.5	45	w.	7.4	3.3			10	w.		0.138	3.5		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.1	29.99	761.7	75.2	24	75	nw.			4		1	n.		0	0	clear	M. Galzin, Director.
Nantes, Observatory	29.87	758.8	30.04	762.9	66.2	19.0	94	wsw.			0-2		10 nkn		wsw.	1.122	28.5		M. Larocque, Director.
Perpignan, Observatory	29.97	761.3	30.08	764.0	77.2	25.1	67	nw.	3.8	1.7			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.3			43.5	6.4		nw.			6				nw.	0.157	4.0		M. Vaussenat, Director.
Privas, Normal School	28.97	735.9	30.00	762.1	70.5	21.4	72	s.			1		10 kn			0.620	0.5	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.24	641.0			48.9	9.4	95	w.			3		8		w.	0.154	3.9		M. Alluard.
Rochefort, Naval Obs'y	30.00	762.0	30.03	762.8	67.3	19.6	91	wsw.			1		10		w.	0.020	0.5	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.3	30.02	762.6	65.5	18.6	100	ssw.			2		10	ssw.	ssw.	0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.98	710.8	30.12	765.1	58.6	14.8	90	nw.			1		10		e.	0.177	4.5	raining	M. Seger, Director.
Rouen, Normal School	29.85	758.3	29.90	759.5	68.4	20.2	96	nw.			1		5	w		0.39	10.	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.80	757.0	29.97	761.2	69.3	20.7	66	sw.			1		2	nw.	w.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.43	747.6	30.16	766.1	66.2	19.0	94	nw.			1		10	w.		0.335	8.5	covered	M. Baillard, Director.
Tours	29.84	757.8	30.01	762.3	68.0	20.0	77	wsw.			1		8	w.	w.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.48	748.7	29.97	761.2	66.9	19.4	68	w.			1		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.98	761.4	30.13	765.2	73.8	23.2	74	sw.	5.8	2.6			10 k		w.	0.142	3.6	covered	M. Cartier, Director.
GERMAN.																			
Anshach	28.51	724.2	29.94	760.4	60.1	15.6	82	sw.			2		9	sw.		0.031	0.8		Prof. Jnedt.
Bamberg	29.09	738.8	29.93	760.2	58.3	14.6	87	calm			0		10 n			0.118	3.0	raining	Prof. Dr. Hoh.
Berlin	29.67	753.6	29.81	757.2	52.2	11.2	100	s.			1		10			0.087	2.2		Dr. Lensch.
Breslau	29.42	747.2	29.95	760.6	57.7	14.3	55	s.			3		10			0	0		Royal University Obs'y.
Carlsruhe	29.52	749.7	29.97	761.2	62.2	16.8	85	sw.			2		10	sw.		0.256	6.5	raining	Albert Senz.
Cassel	29.14	740.2	29.85	758.3	65.1	18.4	75	s.			4		5	sw.		0.016	0.4		Dr. H. Möhl.
Frankfort-on-the-Main	29.54	750.2	29.89	759.2	64.8	18.2	75	sw.			1		9			0.075	1.9		Physical Society.
Friedrichshafen	28.60	726.3	29.98	761.6	63.3	17.4	83	sw.			1		10	sw.		0.063	1.6		Wilhelm, Chief Tel.
Hamburg	29.65	753.2	29.74	755.5	63.0	17.2	82	w.			3		7			0.146	3.7		E. Preller.
Kiel	29.70	754.3	29.71	754.7	59.4	15.2	83	wsw.			2		8			0.079	2.0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.44	747.8	29.85	758.3	63.0	17.2	77	wsw.			3		9	w.		0.169	4.3		H. Leppig, Asst.
Magdeburg	29.61	752.1	29.79	756.7	65.8	18.8	73	w.			3		8	w.		0.134	3.4		Weather Observatory.
Memel	29.98	761.6	30.03	762.8	54.1	12.3	67	s.			4		5 k						Issermann.
Munich	28.16	715.3	30.02	762.6	59.0	15.0	83	sw.			2		6	w.		0.138	3.5		Central Station.
Neufahrwasser	29.92	760.0	29.94	760.4	56.8	13.8	53	s.			2		5	wsw.		0	0		A. Lothes.
Neustadt, Palatinate	29.37	746.0	29.90	759.4	66.6	19.2	69	sw.			3		6	w.		0.469	11.9	raining	Dicknether.
Stuttgart	29.00	736.6	29.87	758.6	67.1	19.5	59	w.			1		7	nw.		0.024	0.6		Prof. Dr. Schoder.
Wustrow	29.69	754.0	29.71	754.7	50.2	10.1	98	se.			3		10			0.118	3.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.55	750.5	29.92	760.0	75.7	24.3		ne.			1.5		8 k			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.74	755.3	29.79	756.6	82.9	28.3	72	wsw.	33.0	14.8			7	wsw.	wsw.	0	0	d. clouds	
Deesa	29.20	743.1	29.72	754.8	93.6	34.2	40	wnw.	10.0	4.5			2	nw.		0	0	d. clouds	
Bombay	29.80	756.8	29.83	757.8	76.6	24.8	94	nw.	18.0	8.0			10		wnw.	2.74	69.6	overcast	
Poona, Yarrowda	27.98	710.6	29.85	758.2	72.8	22.7	90	w.	10.0	4.5			10			3.08	78.2	overcast	
Trichinopoly	29.53	750.0	29.80	757.0	89.5	31.9	41	wnw.	0.2	0.1			6			0	0	d. clouds	
Bellary	28.30	718.7	29.74	755.5	86.0	30.0	49	w.	14.0	6.3			10	ese.		0	0	gloomy	
Belgaum	27.32	693.9	29.89	759.2	68.9	20.5	89	w.	13.0	5.8			10	w.		0.02	0.5	d. clouds	
Lahore	28.96	735.5	29.68	754.0	88.1	31.2	48	calm	0	0			0			0	0	blue sky	
Roorkee	28.79	731.2	29.67	753.6	87.2	30.7	59	calm	0	0			0			0	0		
Agra	29.14	740.1	29.68	753.9	100.1	37.8	20	w.	4.0	1.8			2		w.	0	0	d. clouds	
Nagpur	28.75	730.2	29.80	757.0	73.5	23.1	94	se.	6.0	2.7			10			0.63	16.0	thund'r st'm	
Jubbulpore	28.41	721.6	29.74	755.4	87.0	30.7	56	calm	0	0			4	n.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.31	744.4	29.68	753.7	90.1	32.3	52	calm	0	0			0			0	0	blue sky	
Allahabad	29.38	746.1	29.68	754.0	83.9	28.8	75	calm	0	0			0			0	0	blue sky	
Patna	29.51	749.6	29.69	754.2	86.4	30.2	75	se.	4.1	1.8			6	se.	se.	0	0	d. clouds	
Hazaribagh	27.72	704.2	29.72	754.8	79.5	26.4	80	ene.	3.5	1.6			10			0	0	overcast	
Cuttack	29.67	753.6	29.75	755.7	81.2	27.3	77	calm	2.0	0.9			8			0	0	d. clouds	
Calcutta, Alipore	29.71	754.5	29.73	755.1	80.9	27.2	87	ese.	1.0	0.4			10		se.	0	0	drizzling	
Dhubri	29.62	752.3	29.74	755.3	82.0	27.8	85	calm	0	0			4		sw.	0	0	d. clouds	
Chittagong	29.70	754.4	29.79	756.8	77.1	25.1	94	se.	3.5	1.6			10			0.06	1.5	overcast	
Sibsagar	29.46	748.4	29.80	756.9	78.1	25.6	95	se.	2.0	0.9			10	w.	w.	0.56	14.2	overcast	
Jeypore	28.31	719.1	29.71	754.7	93.7	34.3	34	n.	4.5	2.0			4		n.	0	0	d. clouds	
Zanzibar	30.00	762.0			78.4	25.8	76	nnw.	3.1	1.4			5		e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.60	751.7	29.99	761.8	68.5	20.3	45	calm	0	0			9			0	0		Prof. Giovanni Clodig.
Milan	29.51	749.5	30.01	762.3	67.5	19.7	61	se.	2.5	1.1			10	w.		0	0		Prof. G. V. Schiapparelli
Padua	29.88	759.0	29.99	761.7	71.1	21.7	45	nne.	3.1	1.4			10	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	739.8	30.01	762.3	69.3	20.7	63	nw.	0	0			7	ne.		0	0		Prof. F. F. Denza.
Genoa	29.80	756.8	29.98	761.5	72.5	22.5	58	sw.	3.8	1.7			10	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	29.99	761.8	66.0	18.9	61	w.			4		9			0	0		Prof. D. C. Bruno.
Pesaro	29.95	760.8	30.00	762.0	70.5	21.4	67	ene.	11.2	5.0						0	0		Prof. Luigi Guidi.
Florence	29.73	755.1	29.98	761.4	74.3	23.5	53	nw.			2		10			0	0		Prof. Costantino Pittei.
Leghorn	29.85	758.1	29.93	760.2	72.0	22.2	63	sw.	1.8	0.8			10			0	0		Prof. P. Monte.
Rome	29.80	756.9	29.97	761.2	75.4	24.1	51	ssw.	9.4	4.2			10			0	0		Prof. P. Tacchini.
Lecce	29.72	754.9	29.97	761.1	71.6	22.0	50	ne.	7.4	3.3			4	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.7	29.99	761.7	74.8	23.8	66	ssw.	3.1	1.4			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.80	756.8	29.98	761.6	74.5	23.6	70	s.			2		10			0	0		Prof. A. Pacinotti.
Palermo	29.79	756.6	30.03	762.7	74.8	23.8	55	ese.	8.1	3.6			7			0	0		Prof. G. Cacciatore.
Syracuse	29.96	761.0	30.00	762.1	76.3	24.6	60	sw.	6.3	2.8			10	wsw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.48	748.9	30.00	761.9	72.5	22.5	60	w.	6.3	2.8			8	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.94	760.4	29.98	761.4	55.0	12.8	98	e.			2	0	8 k;ks		sw.	0.736	18.7	cloudy	H. Hattori.
Awomori	29.89	759.2	29.92	759.9	53.3	11.7	86	sw.	1.0	0.4		0	0			0.237	6.0	clear	K. Ogawa
Hamamatsu	29.91	759.7	30.01	762.2	61.9	16.6	63	wnw.			2	3 cs	0	sw.		0	0	fair	Sekigawa & Yamazaki.
Kagoshima	30.09	764.2	30.10	764.5	63.1	17.3	67	nw.			2	0	0			0	0	clear	G. Miyanomaza.
Kanazawa	29.93	760.2	30.03	762.8	57.5	14.2	84	se.	5.5	2.4		0	1ck;ks			0.030	0.8	fair	S. Endo.
Kioto	29.87	758.8	30.05	763.2	56.3	13.5	78	nw.	0.5	0.2		0	0			0	0	clear	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	63.1	17.3	76	nw.	5.9	2.6		0	3 s			0	0	clear	K. Kusunose.
Miasaka	30.07	763.7	30.09	764.4	62.5	16.9	80	wnw.			2	0	1 s		w.	0	0	clear	K. Masusaki
Miyako	29.88	758.9	29.99	761.7	50.7	10.4	94	wsw.	0.3	0.1		0	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.93	760.2	30.13	765.3	59.1	15.1	66	calm	0	0		0	1 s			0	0	clear	S. Takehayasu.
Niigata	29.97	761.2	30.01	762.2	59.0	15.0	90	sw.	3.3	1.4		0	3 ks			0.715	18.2	fair	Satoo & Tomikawa.
Nobiru	29.98	761.6	30.00	762.0	54.9	12.7	92	nnw.	1.9	0.8			9 k;ks			0	0	cloudy	Yoslino & Midzushina.
Numazu	29.96	761.0	29.99	761.8	59.7	15.4	94	ene.			2	0	2 s			0	0	clear	R. Kaneda.
Osaka	30.03	762.8	30.05	763.2	61.6	16.4	70	ne.	6.2	2.8		0	0			0	0	clear	H. Omura.
Sakai	30.06	763.6	30.07	763.8	54.7	12.6	83	sw.			2	0	0			0	0	clear	Yamawchi & Sakamoto.
Shimonoseki	29.97	761.3	30.12	765.0	60.5	15.8	77	calm			0	0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.91	759.6	29.98	761.5	63.1	17.3	88	sse.	3.0	1.3		0	4ck;ks		sw.	0.011	0.3	fair	The Staff.
Wakayama	29.98	761.6	30.04	762.9	62.0	16.7	73	e.	1.0	0.4		5 ck	5 ck		w.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.16	766.1	70.5	21.4	84	ese.	20.5	9.2			10n;ks			0	0	misty	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.02	762.5	58.6	14.8	94	sse.	0.9	0.4			10 n			0.153	3.9	overcast	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	76.0	24.4	84	ene.	1.6	0.8		7 cs	0	ssw.		0	0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata					75	23.9	90	e.			1	0	3 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.84	757.9	29.84	757.9	63.7	17.6		wsw.			5					0.409	10.4		
Groningen	29.69	754.1	29.74	755.5	61.5	16.4		wnw.			3					0.303	7.7		
Helder	29.76	755.9	29.76	755.9	61.7	16.5		sw.			4					0	0		
Hellevoetsluis	29.81	757.2	29.81	757.2	63.1	17.3	82	w.			4					0	0		
Utrecht	29.78	756.3	29.82	757.5	64.6	18.1	78	wsw.			4		5			0.004	0.1	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.4			80.8	27.1	78	nne.	0	0			4			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.58	751.3	29.64	752.9	54.3	12.4	52	ese.	2.5	1.1			10					raining	
Brono	29.70	754.3	29.74	755.3	48.9	9.4	59	sse.			4		4			0	0		
Christiania	29.65	753.2	29.80	756.9	46.9	8.3	78	ene.	9	4			10			0	0		
Gjæsvær	29.55	750.5	29.57	751.1	37.8	3.2		sw.			7		8						
Lodingen	29.64	752.9	29.69	754.1	43.3	6.3	53	ssw.			6		10			0.11c	2.8		
PORTUGUESE.																			
Angra, Azores					68.9	20.5	81	n.	9.8	4.4			4			1.535	39.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.06	763.4	30.14	765.6	75.6	24.2	65	sw.	6.9	3.1			0			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.85	758.2	30.18	766.5	71.8	22.1	75	ne.	2.5	1.1			2			0	0		The Staff.
Ponta Delgada, Azores	29.88	758.9	29.95	760.7	73.4	23.0	80	nne.	4.3	1.7			3			0.638	16.2		
Saint Paul de Loando	29.78	756.5	29.98	761.6	76.8	24.9	84	nw.			2		4	se.		0	0		
San Salvador, Congo	28.11	714.1	29.94	760.4	81.5	27.5	49	nw.			4		10						
Serra da Estrella	25.54	648.8	30.13	765.2	67.1	19.5	69	se.	2.5	1.1			3			0.020	0.5		
RUSSIAN.																			
Akmollinski	28.86	733.1	29.88	759.0	76.6	24.8	26	w.	7	3		4 cs	0			0	0		Major K. Lasarew.
Archangel	29.58	751.3	29.60	751.8	38.8	3.8	57	nw.	9	4		0	8 ks			0	0		Capt. Sseliwerstow
Ashuruda	29.99	761.8	29.90	759.4	79.3	26.3	79	nw.	13	6		0	1 k			0	0		
Astrakhan	29.92	760.0	29.85	758.2	83.1	28.4	34	sw.	11	5		0	0			0	0		Capt. Wisganow.
Baku	29.91	759.8	29.87	758.6	78.1	25.6	81	ssw.	18	8		0	0			0	0		
Barnaul	29.57	751.0	30.05	763.3	65.3	18.5	37	calm	0	0			1			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.15	740.3	29.62	752.3	41.2	5.1	49	nw.	18	8		cs	2 k			blank	blank		
Dorpat	29.65	753.2	29.90	759.4	50.5	10.3	59	sw.	4	2		0	8 k			0	0		Observatory.
Ekaterinburg	28.69	728.8	29.63	752.5	61.3	16.3	66	s.	18	8			10			0	0		Meteorological Obs'y.
Elissawetgrad	29.67	753.6	30.12	765.1	51.1	10.6	44	n.	11	5		0	3 k			0.008	0.2		
Irkutsk	28.45	722.6	30.18	764.0	53.2	11.8	52	calm			0		3			0	0		
Kasalinsk					85.6	29.8	22	sse.				0	0						
Kasan	29.11	739.5	29.38	746.3	52.0	11.1	68	sw.	13	6			10 n			0.181	4.6		Observatory.
Kem	29.60	751.8	29.65	753.1	38.1	3.4	71	nw	9	4			9 ks			0	0		
Kertch	30.02	762.4	30.04	763.0	60.1	15.6	57	wnw.	7	3		0	4 k			0.043	1.1		Lagorio & Sastyrea.
Kieff	29.43	747.4	30.07	763.7	50.9	10.5	45	nw.	7	3		0	6 ks			0	0		Observatory.
Koslov	29.26	743.2	29.77	756.1	39.7	4.3	73	wnw.	18	8			10 s			0	0		
Liban	29.96	761.0	29.98	761.6	54.3	12.4	61	w.			3		3			0.004	0.1		E. Quaas.
Lugan	29.72	754.8	29.92	759.9	54.9	12.7	50	wnw.	34	15			8			0	0		Meteorological Obs'y.
Moscow	29.27	743.5	29.76	755.9	36.9	2.7	72	nnw.	7	3		0	8 ks			0.587	14.9		Meteorological Obs'y
Nikolaiev	30.09	764.2	30.16	766.0	54.7	12.6	51	nw.	13	6		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor					38.7	3.7	93	calm	0	0		0	3 n					light clouds	Iwanow.
Pekin, China	30.03	762.7	30.17	766.3	35.8	2.6	78	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.60	751.7	29.93	760.1	86.4	30.2	26	nnw.	1.1	0.5		0	0			0	0		
Petrozavodsk	29.45	748.0	29.65	753.1	42.4	5.8	78	nw.	11	5		7 ck	0			0.012	0.3		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.61	752.1	30.11	764.8	52.9	11.6	67	w.	4	2			9 k			0.083	2.1		
Poti	29.88	759.0	29.91	759.8	81.3	27.4	70	sw.	7	3			10 n			0	0		
St. Petersburg	29.79	756.7	29.82	757.3	46.0	7.8	57	wnw.	13	6		0	4 k			inap.	inap.		Central Physical Obs'y.
Samarkand	27.56	700.0	29.91	759.8	78.3	25.7	37	calm	0	0		0	0			0	0		
Semipalatinsk	29.42	747.2	30.08	763.9	71.1	21.7	26	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.88	758.9	30.09	764.3	61.0	16.1	56	nne.	20	9		5 cs	0			0	0		
Staroi Bykhov	29.44	747.7	30.00	761.9	48.7	9.3	76	w.	13	6		0	7 kn			0.283	7.2		
Tashkend Laboratory	28.30	718.9	29.88	758.9	81.3	27.4	43	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.48	723.3	29.81	757.1	84.6	29.2	28	calm	0	0		0	0			0	0		Physical Observatory.
Vernoe	27.43	696.8	29.86	758.4	65.8	18.8	69	calm	0	0		1 c	0			0	0		
Viatka	28.58	725.8	29.19	741.5	48.9	9.4	96	se.	7	3			10			0.760	19.3		
Warsaw	29.62	752.4	30.05	763.2	53.6	12.0	59	ese.	13	6		2 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	30.12	765.0	30.42	772.6	34.2	1.2	71	w.	4	2			6			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.92	760.0	30.02	762.6	78.4	25.8	77	e.	5.8	2.6		0	7			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	85.3	29.6	56	nw.	1.6	0.7		2	2	w.		0.008	0.2	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.26	692.0	30.10	764.6	75.2	24.0	60	sw.	9.4	4.2			4			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.97	710.4	30.08	764.1	84.0	28.9	42	w.	8.9	4.0		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.93	760.1	30.06	763.5	88.2	31.2	39	sw.	2.2	1.0		3	5	ene.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.30	744.2	30.06	763.5	72.5	22.5	80	nw.	5.4	2.4		4 n	6 n	n.	ne.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.20	741.7	30.08	763.9	67.5	19.7	98	sw.	16.8	7.5			10			0.220	5.6	misty	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.5	30.01	762.2	76.4	24.7	88	sse.	2.2	1.0		4cs;ck	1 s	n.		0.19	4.8	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	760.0	80.0	26.7	92	ene.	2.2	1.0		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.8	30.13	765.2	84.2	29.0	44	sw	2.4	1.1		0	8		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.96	761.0	30.05	763.3	79.5	26.4	83	calm	0	0		6 cs	3 kn	sw.	sw.	0	0	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.79	756.6	29.83	757.6	41.7	5.4	52	se.			2		0			0	0		
Umea	29.80	756.8	29.85	758.1	47.8	8.8	48	s.			2		4			0.028	0.7		
Hernosand	29.81	757.2	29.86	758.5	52.5	11.4	57	e.			2		5			0	0		
Stockholm	29.71	754.5	29.88	759.0	51.8	11.0	52	ssw.			2		1			0	0		
Wisby	29.87	758.8	29.93	760.3	52.9	11.6	71	w.			4		3			0	0		
Sub-series.																			
Upsala	29.78	756.3	29.86	758.5	52.2	11.2	56	wsw.	7.2	3.2			0			0.067	1.7		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.64	727.5	30.02	762.6	69.8	21.0	59	s.			2		7			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			30.00	762.1	71.1	21.7	61	n.	10	4.5			10		ne.	0	0		The Observatory.
Valona			30.08?	763.9?	74.7	23.7		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.90	759.4	81.5	27.5	58	n			2	5 ck		sw.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.66	702.6			73	22.8	55	calm			0					0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	29.28	743.7	29.36	745.7	56	13.3	69	sw.	12	5.4			1c s		nw.	1.04	26.4	cloudy	J. O. Barnes.
Alpena, Michigan	29.07	738.4	29.72	754.9	45	7.2	68	nw.	17	7.6		9 k	0	nw.		0.69	17.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.98	761.5	38	3.3	67	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.28	692.9	30.13	765.3	37	2.8	82	sw.	3	1.3		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	30.02	762.5	53.0	11.7	80	w.	8	3.6			fg.			0	0	light fog	Edward A. Beals.
Atlantic City, New Jersey	29.70	754.4	29.70	754.4	60	15.6	54	w.	10	4.5		1 cs	0			0.63	16.0	clear	Jas. M. Watson.
Augusta, Georgia	29.51	757.2	30.00	762.0	57.0	13.9	90	calm	0	0		0	fg.			0.58	14.7	clear	D. J. Young.
Baltimore, Maryland	29.70	754.4	29.75	755.6	55	12.8	69	w.	10	4.5		0	0			1.30	33.0	clear	Geo. W. Fenger.
Barnegat City, New Jersey	29.66	753.4	29.68	753.9	60.0	15.6	65	w.	24	10.7		0	0			0.39	9.9	clear	G. A. Hill.
Behring Id., Behring Sea	29.83	757.7	29.85	758.2	38.0	3.3	72	e.	12	5.4			10 n		e.	0	0	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.62	726.9	30.22	767.6	28.0	— 2.2	88	nw.	1	0.4		2 c	2 s	nw.	nw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.19	766.8	37	2.8	72	calm	0	0			sk.			0	0	dense smoke	Thomas Morgan.
Bismarck, Dakota	28.35	720.1	30.15	765.8	33.5	0.8	85	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.51	749.5	29.54	750.3	57	13.9	69	w.	28	12.5		0	0			0.48	12.2	clear	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.03	762.7	40	4.4		n.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	29.23	742.4	29.38	746.2	56.0	13.3	62	sw.	27	12.1		0	0			0.83	21.1	clear	O. B. Cole.
Brownsville, Texas	30.06	763.5	30.12	765.0	62.0	16.7	93	nw.	2	0.9		5ck;cs	0	w.		0.02	0.5	fair	E. C. Imlay.
Buffalo, New York	28.77	730.7	29.50	749.3	53.3	11.8	84	sw.	31	13.9		0	8 ks		sw.	0.72	18.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.19	716.0	30.17	766.3	31	— 0.6	81	calm	0	0		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.62	752.3	30.02	762.5	56.6	13.7	86	nw.	7	3.1		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.89	759.2	30.09	764.3	58.0	14.4	93	se.	9	4.0		0	sk.			0	0	dense smoke	O. D. Stewart.
Cape Henry, Virginia	29.83	757.7	29.85	758.2	60.5	15.8	74	sw.	9	4.0		2 ck	0			0.98	24.9	clear	A. K. Alderson.
Cape May, New Jersey	29.71	754.6	29.74	755.4	62.0	16.7	70	w.	30	13.4		0	0			0.24	6.1	clear	W. E. Smith.
Cape Mendocino, California	29.32	744.7	30.00	762.0	54	12.2	93	nw.			2		fg.		nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	69.0	20.6	92	n.	10	4.5			10 s		n.	1.80	45.7	cloudy	G. W. Davis.
Charleston, S. Carolina	29.88	758.9	29.92	760.0	65.0	18.3	93	w.	4	1.8		0	8 s		w.	0.69	17.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.09	738.9	29.93	760.2	52.2	11.2	90	sw.	1	0.4		0	fg.			0.82	20.8	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.02	762.5	57.0	13.9	80	w.	2	0.9		1 k	fg			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.02	762.5	36.5	2.5	72	sw.	6	2.7		0	4 s			0	0	fair	E. McGovern.
Chicago, Illinois	29.18	741.2	29.87	758.7	53.0	11.7	80	nw.	5	2.2			10 s		n.	0.01	0.3	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.77	756.1	29.79	756.7	63	17.2	78	nw.	11	4.9		0	0			0.49	12.4	clear	C. F. Dickens.
Cincinnati, Ohio	29.22	742.2	29.87	758.7	58.0	14.4	80	w.	4	1.8			10 s		w.	0.01	0.3	cloudy	L. Dunne.
Cleveland, Ohio	28.98	736.1	29.70	754.4	54.7	12.6	79	sw.	12	5.4			10 n		w.	0.68	17.3	light rain	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	28.96	735.6	29.80	756.9	51	10.6	80	sw.	3	1.3		0	0			0.39	9.9	clear	D. Cuthbertson.
Concho, Fort, Texas	28.18	715.8	30.08	764.0	52.5	11.4	86	sw.	2	0.9		0	0			0	0	clear	J. McGlone.
Custer, Fort, M. T.	26.99	685.5	30.11	764.8	35	1.7	72	e.	2	0.9		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.31	744.5	29.96	761.0	48	8.9	86	nw.	6	2.7		5 cs	0	w.		0.03	0.8	fair	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.05	763.3	50	10.0	69	calm	0	0		4 cs	0			0	0	fair	J. Williams.
Dayton, Washington T'y	28.36	720.3	30.10	764.5	46	7.8	53	e.	4	1.8		0	sk.			0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.49	647.4	30.05	763.3	32	0.0	81	ne.	1	0.4		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	29.74	755.4	29.76	755.9	59	15.0	84	sw.	19	8.5		0	0			0.52	13.2	clear	T. S. Townsend.
Denver, Colorado	24.87	631.7	29.98	761.5	41.0	5.0	70	n.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.06	763.5	47	8.3	86	n.	6	2.7		0	0			0.03	0.8	clear	F. W. Conrad.
Detroit, Michigan	29.02	737.1	29.72	754.9	53.0	11.7	72	w.	13	5.8			10 s		nw.	0.12	3.0	cloudy	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.04	763.0	46	7.8	63	nw.	16	7.2		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.29	744.0	29.99	761.7	47.3	8.5	83	nw.	5	2.2		0	1 s		n.	0.13	3.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.04	763.0	40.0	4.4	82	nw.	14	6.3		0	1 s			0	0	clear	N. B. Conger.
Eastport, Maine	29.08	738.6	29.15	740.4	59.0	15.0	87	sw.	27	12.1		7 ck;k	3 s;fg	sw;w	w;sw	0.31	7.9	cloudy	D. C. Murray.
Elliott, Fort, Texas	27.33	694.2	30.02	762.5	48	8.9	86	nw.	4	1.8		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.41	670.8	30.06	763.5	48.0	8.9	80	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.92	734.6	29.62	752.5	55	12.8	93	nw.	24	10.7			10 n			1.12	28.4	light rain	C. A. Shaw.
Escanaba, Michigan	29.25	742.9	29.91	759.7	38.0	3.3	85	w.	8	3.6		0	1 k		w.	0.22	5.6	clear	George Heathcote.
Galveston, Texas	30.07	763.8	30.11	764.8	67	19.4	59	w.	7	3.1		0	hz.			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.17	740.9	29.83	757.7	49.0	9.4	77	n.	12	5.4		8 ck	0	n.		0.11	2.8	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.33	643.4	29.93	760.2	55.2	12.9	43	se.	8	3.6		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.86	758.4	29.88	758.9	67.0	19.4	63	nw.	14	6.3			10 k		nw.	0.30	7.6	cloudy	R. M. Crawford.
Helena, Montana	25.91	658.1	30.08	764.0	40	4.4	82	sw.	3	1.3		0	0			0	0	clear	I. H. Jones.

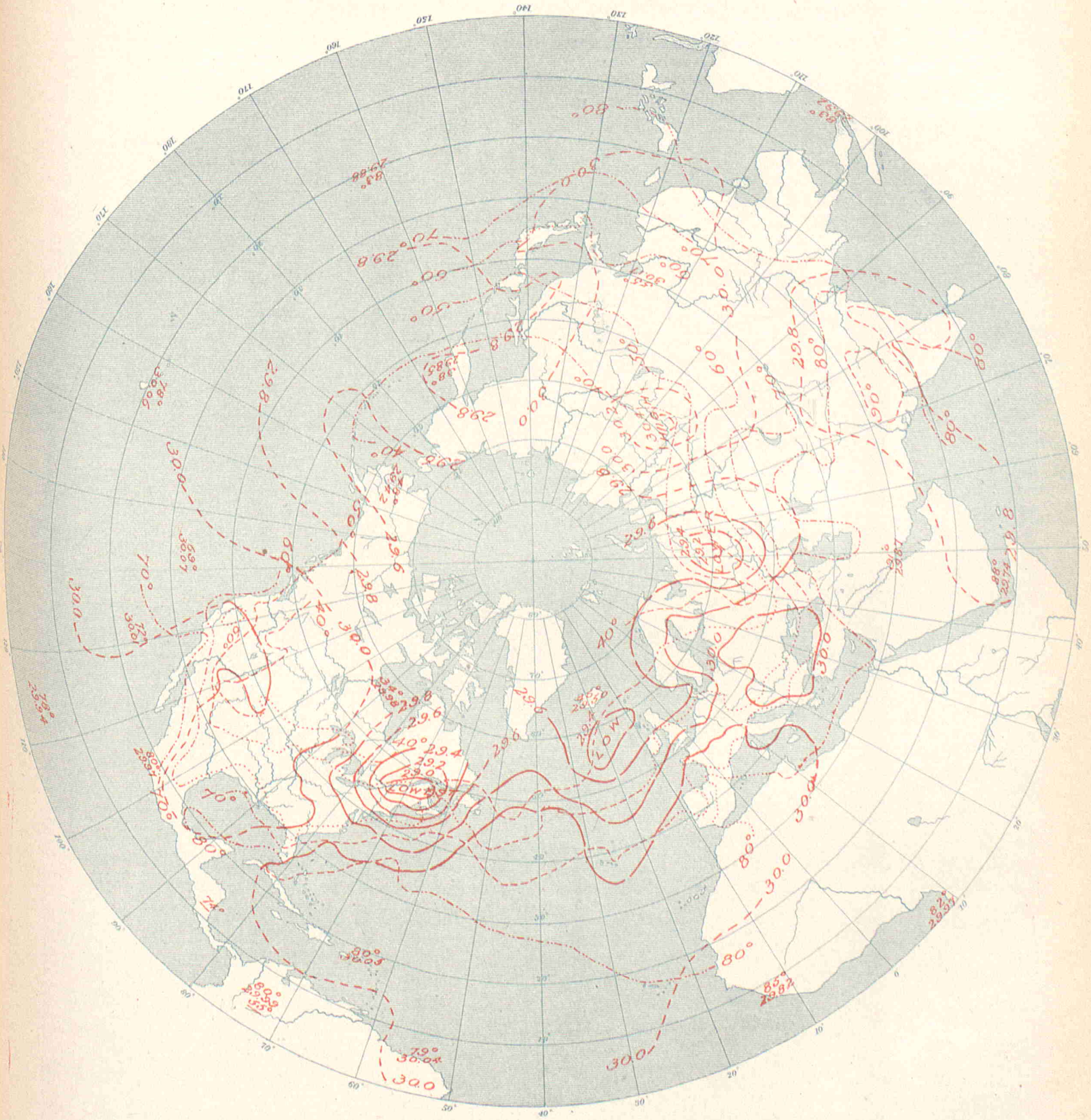
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.79	731.3	30.17	766.3	32.2	0.1	81	nw.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.84	757.9	55.6	13.1	84	w.	1	0.4			10 s		w.	0.06	1.5	cloudy	C. F. R. Wappenhaus.
Indianola, Texas	30.08	764.0	30.11	764.8	65.0	18.3	84	w.	5	2.2		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	29.95	760.7	29.99	761.7	66.0	18.9	90	n.	1	0.4			10 s			0.79	20.1	cloudy	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.33	745.0	29.98	761.5	50.0	10.0	86	nw.	6	2.7		1 k	0	nw.		0.03	0.8	clear	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	82	27.8	80	s.	9	4.0		5 cs	2 k		s.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.87	758.7	29.89	759.2	64.5	18.1	63	nw.	11	4.9		0	8 ks		nw.	0.45	11.4	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	28.97	735.8	29.99	761.7	53.2	11.8	86	sw.	3	1.3		0	4 k		nw.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.01	762.2	48	8.9	77	n.	6	2.7			10 s		n.	0.29	7.4	cloudy	S. C. Emery.
Leavenworth, Kansas	29.22	744.2	30.10	764.5	50	10.0	89	nw.	0	0		1 k	0	nw.		0	0	clear	T. S. Outram.
Lewiston, Idaho	29.17	740.9	30.00	762.0	40.0	4.4	82	calm	5	2.2			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.04	763.0	55	12.8	86	nw.	1	0.4		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	75	23.9	23	ne.	10	4.5		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.88	758.9	57	13.9	80	s.	4	1.8		0	sk.			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.14	740.1	29.82	757.4	56	13.3	62	sw.	4	1.8		0	0			1.34	34.0	clear	Louis Duane.
Mackinaw City, Michigan	29.16	740.7	29.81	757.2	42.0	5.6	73	nw.	16	7.2		0	7 s		nw.	0.09	2.3	fair	D. B. Notson.
Macon, Fort, North Carolina	29.88	758.9	29.89	759.2	65.0	18.3	93	nw.	6	2.7			10 s		w.	0.12	3.0	cloudy	William Daly.
Maginnis, Fort, Montana	25.66	651.8	30.06	763.5	35	1.7	56	sw.	5	2.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.21	741.9	29.93	760.2	43.0	6.1	78	nw.	12	5.4		4 k	0	nw.		0.87	22.1	fair	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.04	763.0	60	15.6	93	w.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.16	740.7	29.90	759.4	48	8.9	71	nw.	10	4.5		0	9 ks		nw.	inap.	inap.	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.03	762.7	30.07	763.8	57	13.9	64	nw	6	2.7		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.84	757.9	30.07	763.8	54	12.2	86	nw.	2	0.9		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.11	739.4	30.10	764.5	30	— 1.1	88	nw.	3	1.3		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.02	584.7	29.17	740.9	31.3	— 0.4	98	w.	58	26.0			fg.		w.	1.42	36.1	dense fog	S. W. Beall.
Nashville, Tennessee	29.40	746.7	29.97	761.2	58.0	14.4	84	sw.	6	2.7		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.40	746.7	29.51	749.5	55	12.8	93	sw.	22	9.8		0	0			1.08	27.4	clear	J. H. Sherman.
New London, Connecticut	29.50	749.3	29.55	750.6	60	15.6	70	w.	17	7.6		0	0			1.16	29.5	clear	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	66.0	18.9	68	w	3	1.3		0	0			0	0	clear	M. Herman.
New York, New York	29.44	747.8	29.60	751.8	57	13.9	64	s.	18	8.0		0	0			0.89	22.6	clear	H. J. Penrod.
Norfolk, Virginia	29.82	757.4	29.84	757.9	62.0	16.7	78	w.	4	1.8		0	hz.			0.94	23.9	clear	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.16	766.1	39.6	4.2	84	calm	0	0			fg.			0	0	dense fog	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	47.0	8.3	86	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	28.98	736.1	30.15	765.8	43.8	6.6	93	nw.	3	1.3		0	0			0	0	clear	A. Pollak.
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	28.99	736.3	29.31	744.5	57.0	13.9	80	w.	33	14.8			10 s		w.	0.87	22.1	cloudy	J. G. Linsley
Palestine, Texas	29.57	751.1	30.12	765.0	60.0	15.6	65	w.	6	2.7		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.05	763.3	61.4	16.3	55	nw.	8	3.6		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.59	751.6	29.69	754.1	57	13 9	74	sw.	16	7.2		0	0			1.19	30.2	clear	T. F. Townsend.
Pike's Peak, Colorado	18.03	458.0	30.01	762.2	25	— 3.9	73	nw.	21	9.4		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.98	736.1	29.77	756.1	53.0	11.7	72	sw.	8	3.6			10 s		sw.	0.43	10.9	cloudy	G. O. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.00	736.6	29.67	753.6	46.0	7.8	100	nw.	16	7.2			10 n		nw	0.76	19.3	light rain	M. H. Perry
Portland, Maine	29.20	741.7	29.25	742.9	57	13.9	69	sw.	20	8.9		0	0			1.29	32.8	clear	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	48.0	8.9	100	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.90	632.4	30.00	762.0	43.5	6.4	51	s.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.42	747.3	29.44	747.8	57.5	14.2	64	w.	19	8.5		0	1 s		w.	0.50	12.7	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.61	752.1	29.96	761.0	66	18.9	40	n.	5	2.2		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.12	765.0	50	10.0	88	e.	1	0.4			sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.87	758.7	29.94	760.5	62.0	16.7	72	calm	0	c		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.36	745.7	29.97	761.2	54.2	12.3	85	nw.	15	6.7		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.39	746.5	29.42	747.3	48	8.9	86	ne.	5	2.2		2 cs	6 s	n	ne.	0.10	2.5	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.21	741.9	30.06	763.5	41.0	5.0	73	nw.	5	2.2		4 c	0	w.		0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.04	763.0	37	2.8	100	sw.	4	1.8		0	6 ks		nw.	0	0	fair	C. B. Dilley
Salt Lake City, Utah	25.68	652.3	29.93	760.2	64	17.8	42	calm	0	0		2 c	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.81	757.2	29.88	758.9	71.0	21.7	41	e.	2	0.9		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.87	758.7	29.92	760.0	76.0	24.4	94	w.	3	1.3			10 ks		sw.	0.56	14.2	cloudy	J. B. Marbury.
Sandusky, Ohio	29.09	738.9	29.76	755.9	55	12.8	80	w	15	6.7			10 n			0.35	8.9	light rain	B. F. Hough.
Sandy Hook, New Jersey	29.57	751.1	29.60	751.8	59.0	15.0	60	w.	41	18.3		0	0			1.05	26.7	clear	B. A. Blundon.
San Francisco, California	29.91	759.7	29.98	761.5	57.5	14.2	86	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.88	758 9	29.98	761.5	65.5	18.6	73	nw.	4	1.8		5 ck	0	sw.		0.64	16.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	30.02	762.5	32	0.0	81	w.	4	1.8		0	sk.			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.83	757.7	30.07	763.8	57.6	14.2	88	calm	0	0			10 s		nw.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732.8	30.07	763.8	51	10.6	80	s.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Sitka, Alaska	29.81	757.2	29.87	758.7	51	10.6	83	nw	8	3.6		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.61	752.1	30.08	764.0	50.5	10.3	93	calm	0	0		0	fg.			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.88	758.9	29.92	760.0	64.0	17.8	90	nw.	3	1.3			10 s		w.	0.07	1.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.09	764.3	39	3.9	82	calm	0	0			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.20	743.2	29.93	760.2	53.5	11.9	90	nw.	8	3 6			8 s		nw.	0.03	0.8	cloudy	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.12	688.8	30.08	764.0	52	11.1	74	sw.	6	2.7			0			0	0	clear	Louis Dorman.
Thomas, Camp, Arizona					40	7.8	49	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.07	738.4	29.75	755.6	55	12.8	69	nw.	16	7.2			10 s		nw.	0.22	5.6	cloudy	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.50	749.3	29.52	749.8	40	4.4	73	sw.	22	9.8			10 s		sw.	0.35	8.9	threatening	Samuel Applegate.
Verde, Fort, Arizona					51.5	10.8	35	nw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.84	757.9	30.09	764.3	55.5	13.1	83	s.	4	1.8		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.07	753.6	29.78	759.4	55.3	12.9	66	sw.	8	3.6		0	0			1.95	49.5	clear	B. M. Purssell.
West Las Animas, Colorado	26.17	664.7	29.99	761.7	37	2.8	60	calm	0	0		8 c	0			0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.88	758.9	29.93	760.2	65.0	18.3	90	nw.	2	0.9			10 s		n.	0.08	2.0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.85	732.8	30.14	765.5	37.1	2.8	87	n.	8	3.6		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.72	754.9	29.86	758.4	67.2	19.6	46	ne.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			4		2 n		nw.	0.60	15.2	fair	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			54.5	12.5	71	sw.	2	1			10ks;s		nw.	0.051	1.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.04	763.0	76.9	24.9	86	calm	0	0		9 cs	1 s			0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.04	763 0	30.04	763.0	79	26.1	82	sw.			2	5 ck	4 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	85	26.7	89	calm			0		10 ks		calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	90	sw.			1	2 ck		se.		0.13	3.3	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Ice Factory, B. A	29.92	760.0	29.98	761.5	33.5	0.8	95	n.	10	4.5		1 c	1 s	n.	n.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 39° 15′, E. 22° 49′	30.01	762.2	74	23.3	59	n.			1		6	n.				sm'h		d. clouds.
H. M. S. Coquette, N. 37° 00′, E. 10° 40′	30.07	763.8	73	22.8		wnw.			2		8	wnw.				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.03	762.7	79.5	26.4	80	sse.			4		5	sse.						d. clouds.
H. P. M. S Douro, St. Thomas, W.I	29.97	761.2	82.4	28.0	73	sw.			4		10			1 h'r	1 h'r	4	sw.	raining.
H. M. S Himalaya, N. 42° 14′, W 10° 35′	30.06	763.5	69	20.6	90	s.			4		10					3	s.	misty.
H. M. S. Iris, off Port Said, Egypt	29.94	760.5	80	26.7	74	nnw.			3		5							d. clouds.
H. M. S. Tenedos, N. 50° 02′, W. 55° 53′	29.73	755.1	55	12.8	81	sse.			2		9	s.				1	s.	d. clouds.
U. S. S. Navy Yard, Portsmouth, N. H*	29.31	744.5	57	13.9	69	sw.	36	16.1			0			1.50	38.1			clear.
U. S. S. Alliance, St. Johns, N.F	29.19	741.4	57	13.9	94	sw.			6		10		s.	light	light	sm'h	se.	cloudy.
U. S. S. Galena, N. 30° 36′, W. 69° 21′	30.03	762.7	81	27.2	96	n.			1		2		n.			long	n.	fair
U. S. S. Jamestown, N. 24° 35′, W. 26° 00′	30.17	766.3	76	24.4	86	ne.			3		5					sm'h	e.	fair.
U. S. S. Kearsarge, Lisbon, Portugal	30.16	766.1	70	21.1	95	ene.			2		2		calm					misty.
U. S. S. Lancaster, Cadiz, Spain	30.09	764.3	79	26.1	78	wsw.			1		0					long	s.	clear.
U. S. S. Portsmouth, Bristol, R. I.	29.54	750.3	54	12.2	100	wsw.			6		2		w.					fair
U. S. S. Powhatan, St. Pierie N. F	29.88	758.9	54	12.2	100	s.			2		10							overcast.
U. S. S. Quinnebaug, Leghorn, Italy	30.10?	764.5?	72	22.2	85	calm			0		0?					sm'h		cloudy?
U. S. S. Saratoga, Gardiners Bay, Long Island	29.55	750.6	60	15.6	88	wsw.			5–6		8?		wsw.	h'vy	h'vy	mod.	wsw.	clear.?
U. S. S. Swatara, Georgetown, P.E.I.	29.37	746.0	65	18.3	94	s.			6		3		s.	mod.	mod.	sm'h		fair.
U. S. S. Vandalia, N. 42° 56′, W. 66° 44′	29.44	747.8	57	13.9	100	sw.			5		0							clear.
U. S. S. Yantic, N. 41° 02′, W. 65° 35′	29.68	753.9	68	20.0	95	wnw.			5–7		10					r'gh	w.	threatening.
S. S. British Crown, N. 46° 13′, W. 44° 47′†	30.17	766.3	53	11.7		s.			1		0			0	0	sli't	nne.	clear.
S. S. British Prince, N. 49° 18′ W. 42° 56′*†	29.89	759.2	52	11.1		wsw.			5		8		sw.	0	0	mod.	nw.	overcast.
S. S. Ohio, Philadelphia, Pa†	29.69	754.1	56	13.3	87	w.			2		0			15 h'r	15 h'r			clear.
S. S. Circassian, N. 52° 36′, W. 52° 26′	29.70	754.4	48	8.9	92	sw.			5		2		sw.			3	sw.	d. clouds.
S. S. Grecian, N 54° 50′, W. 42° 52′	29.81	757.2	44	6.7	84	wsw.			1		9		wsw.	4 h'r	4 h'r	light	nw.	cloudy.
S. S. Nova Scotian, N. 45° 27′, W. 58° 03′	29.78	756 4	59	15.0		s.			5		10		ssw.			mod.	s.	raining.
S. S. Polynesian, Montreal, Canada	29.05	737.9	57	13.9		sw.			5		10		sw.	12 h'r	12 h'r			cloudy.
S. S. Scandinavian, N. 50° 19′, W. 35° 02′	29.80	756.9	53	11.7		nw.			6		4		sw.	sh'rs	sh'rs	short	nw.	showery.
S. S. Jason, N 49° 44′, W. 13° 38′ †	29.77	756.1	59.0	15 0		wnw.			5–6		6 k					6	wnw.	cloudy
S. S. Alvo, Port Limon, Costa Rica. W.I*	29.89	759.2	78	25.6		e.			2		9		calm	6 h'r	6 h'r			raining.
S. S. Avilla. St. Anns, Jamaica, W. I*†	30.08	764.0	81	27.2		e.			1		4		e.	0	0	sm'h		
S. S. Assyria, N. 40° 01′ W. 27° 21′	29.94	760.5	70	21.1	90	wnw.			4		2		nw.	2 h'r	2 h'r	2	nw.	clear.
S. S. Devonia, N. 43° 18′. W. 57° 04′*†	29.96	761.0	69	20.6		s.			4		9		nw			short	wsw.	cloudy.
S. S. Dorian, Palermo, Sicily	30.07	763.8																
S. S. Carroll, N. 45° 48′, W. 61° 41′*†	29.53?	750.0?	66?	18.9?	100	sse.			9		10		sse.	rain	rain	short	sse.	rainy.
S. S. Gallia, N. 50° 38′, W. 22° 45′	29.53?	750.0?	56	13.3	100	w.			6		10		sw.	shr's	shr's	high	w.	squally.
S. S. Pavonia, N. 47° 29′, W. 34° 39′*	30.05	763.3	60	15.6	76	nnw.			6		8		n.	1 h'r	1 h'r	mod.	n.	fair
S. S. Samaria, N. 51° 20′ W. 9° 50′*†	29.77	756.1	64	17.8		sw.			4		1		w.	2 h'r	2 h'r	mod.	sw.	clear.
S. S. Canada, N. 48° 28′. W. 39° 56′*	30.00	761.9	53.6	12		nnw.			6		k		nnw.	0	0	r'gh	n.	covered.
S. S. Wisconsin, N 51° 12′, W. 23° 22′*	29.60	751.8	59	15.0		wsw.			5		4		w	3 h'r	3 h'r	r'gh	w.	fair.
S. S. Wyoming, New York, N. Y	29.61	752.1	57	13.9		wsw.			6		0			0	0			clear.
S. S. Bohemia, N. 48° 51′, W. 15° 10′†	29.73	755.1				sw.			2		9		sw.	0	0	long	sw.	overcast.
S. S. Gellert, Hamburg, Germany	29.74	755.4	62	16.7	77	wnw.			3		7		nw.	4 h'r	4 h'r			cloudy.
S. S. Silesia, Havre, France			60.9	16.1		wnw.			2		7		wnw.	8 h'r	8 h'r			stormy.
S. S. Westphalia, N. 48° 20′. W. 42° 22′	29.99	761.7	54	12.2	87	nw.			5		8		n.	0	0	mod.	n.	cloudy
S. S. Rhaetia, N. 43° 21′ W. 56° 42′			66	18.9		s.			5		10		sw.	1 h'r	1 h'r	sm'h	se.	raining.
S. S. City of Paris, N. 47° 10′ W. 44° 49′ *	30.21?	767.3?				sse.			3		3		e.	0	0	mod.	nne.	fine.
S. S. Nessmore, N. 38° 42′, W. 70° 54′ *	29.75	755.6	67	19.4	89	w.			6		5		w.	8 h'r	8 h'r	r'gh	w.	fair.
S. S. Archimedes, N. 45° 04′, W. 22° 51′	29.67	753.6				wnw.			3		10		var.	0	0	mod.	wnw	overcast.
S. S. Hevelius. N. 41° 26′, W 11° 30′	30.12	765.0	72	22.2		wsw.			3		8		wsw.	0	0	long	wsw.	cloudy.
S. S. Sirius, N. 21° 06′, W. 22° 58′	30.05	763.3				nne.			4		5		nne.	0	0	mod.	ne.	fair.
S. S. Chalmette, N. 30° 19′, W. 80° 40′†.	30.00	762.0	67	19.4		n.			4		10		n.	3 h'r	3 h'r	sm'h	n.	cloudy.
S. S. Lone Star, N. 25° 13′, W. 84° 00′ *†	29.90	759.4	82	27.8		wsw.			4		10			0	0	large	nw.	squally.
S. S. Alleghany. Chesapeake Bay†	29.81	757.2	60	15.6		w.			4		0			2 h'r	2 h'r			clear.
S. S. Archimede, N. 38° 11′, E. 4° 12′ †	30.13	765.3	80	26.7		w.			3		7?		w.	0	0	sm'h	w.	clear ?
S. S. City of Merida, Vera Cruz, Mexico *†	30.08	764.0	80	26.7		nw.			3		10		nw.	1 h'r	1 h'r	mod.	nw.	squally.
S. S. City of Washington, N. 21° 20′, W. 89° 38′ *†	30.00	762.0	80	26.7		ne.			4		5		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, Guantanamo, Cuba, W.I *	30.02	762.5	84	28.9		nne.			1		3			1½ hr	1½ hr			fine.
S. S. Canada, N. 49° 54′, W. 11° 20′			64	17.8		sw.			3		5		calm	0	0	long	w.	fair.
S. S. Denmark, New York, N. Y†	29.57	751.1	60	15.6		sw.			6		10?							clear.
S. S. Egypt, N. 42° 05′, W. 55° 27′	30.10?	764.5?	70	21.1		sse.			4		10		sse.	0	0	h'vy	ne.	cloudy.
S. S. England, N. 50° 56′. W. 13° 31′	29.73	755 1				sw.			5		10		sw.	0	0	mod.	w.	overcast.
S. S. Greece, N. 40° 45′ W. 68° 02′	29.51	749.5	61	16.1	88	wsw.			7		8		wsw.	12 h'r	12 h'r	mod.	var.	cloudy.
S. S. Helvetia, N. 47° 32′, W. 41° 30′	30.11?	764.8?	58	14.4	100	w.			4		5		w.	3 h'r	3 h'r	r'gh	w.	fair.
S. S. Fulda, N. 47° 54′, W. 45° 46′	30.12	765.0	49.1	9.5	80	wsw.			5		5		wsw.	0	0	mod.	wnw.	fair.
S. S. Hermann, N 37° 45′, W. 73° 49′	29.82	757.4	67.1	19.5	86	nw.			4		1		nw.	0	0	mod.	nw.	clear.
S. S. Oder, N. 42° 48′, W. 56° 37′	29.97	761.2	69.8	21.0		s.			6		9		ssw.	0	0	mod.	s.	cloudy.
S. S. Ohio, N. 49° 39′, W. 13° 41′	29.77	756.1				wsw.			4		3		wsw.	2 h'r	2 h'r	rg'h	wsw.	clear.
S. S. Rhein, N. 43° 03′, W. 48° 15′	30.17	766.3	59.0	15.0		ssw.			1		4		sw.	1 h'r	1 h'r	sm'h		fair.
S. S. Strassburg, N. 49° 59′, W. 25° 25′	29.62	752.3	64.0	17.8	73	w.			4		3		wnw.	2 h'r	2 h'r	6	wsw.	clear.
S. S. Werra, N. 50° 25′, W. 25° 12′	29.65	753.1	59.0	15.0		nw.			4		10		nw.	0	0	mod.	nw.	cloudy.
S. S. Weser, N. 26° 15′, W. 79° 47′	30.06	763.5				se.			3		10		se.	¼ h'r	¼ h'r	mod.	sw.	thnud'r st'm
S. S. City of Augusta, New York, N.Y						nw.			7		2		nw.	0	0			clear.
S. S. Muriel, St. Thomas, W. I	30.01	762.2	83	28.3		ene.			3		0			0	0	sm'h		clear
S. S. Orinoco, Bermuda, Atlantic *†	30.02	762.5	80	26.7		ssw.			2		3		ssw.	0	0			clear.
S. S. Belgenland, N. 49° 41′, W. 14° 15′ †	29.74	755.4	60	15.6	82	wsw.			3		10		wsw.	0	0	long	wsw.	overcast.
S. S. Pennland, N. 41° 05′, W. 66° 59′			58	14.4	94	wsw.			9		8		w.	10 h'r	10 h'r	h'vy	wsw.	squally.
S. S. Vaderland, Antwerp, Belgium			62	16.7		w.			4		5		nw.	1 h'r	1 h'r			fair.
S. S. Waesland, N. 50° 24′, W. 15° 55′	29.76	755.9	59	15.0		s.			6		10		sw.	1 h'r	1 h'r	mod.	sw.	cloudy.
S. S. P. Caland, Jersey City, N. J	29.62	752.3	60.1	15.6		w.			4									fair.
S. S. W. A Scholten, N. 49° 57′. W. 10° 52′	29.79	756.7	59.9	15.5	94	wsw.			5		4		sw.	1 h'r	1 h'r	5	wsw.	hazy.
S. S. Caracas, N. 14° 19′, W. 68° 17′ *†	30.01	762.2	84.5	29.2	79	e.			5		2		ene.	0	0	light	e.	clear.
S. S. Valencia, N. 31° 09′, W. 71° 05′ †	30.07	763.8	83	28.3	83	ssw.			6		1		s.	0	0	mod.	sw.	clear.
S. S. State of Georgia, N. 40° 32′, W. 70° 34′	29.60	751.8				w.			8		3		w.	0	0	short	w.	clear.
S. S. State of Indiana, N. 55° 21′ W. 6° 20′	29.35	745.5	58	14.4		sw.			4		8		sw.	6 h'r	6 h'r	sm'h		raining.
S. S. State of Nevada, Glasgow, Scotland			66	18.9		wsw.			2		10		sw.	driz.	driz.			cloudy.
S. S. State of Nebraska, N. 54° 12′, W. 24° 39′	29.36	745.7	52	11.1		wsw.			6		8		w.	0	0	mod.	sw.	showery.
S. S. Thingvalla, N. 57° 30′, W. 21° 36′ †	29.37	746.0	54.5	12.5		wsw.			3		4		wsw.	3 h'r	3 h'r	mod	wsw.	fair.
S. S. Romano, N. 44° 25′, W 36° 50′			62	16.7		nnw.			4		3		nw.	0	0	sm'h		clear.
S. S. Salerno, N. 48° 54′, W 19° 52′ *†	29.70	754.4	57	13.9		var.			1		10		s.	1.0	25.	sm'h	wsw.	raining.
S. S. Lake Huron, N. 55° 37′, W. 37° 50′	29.69	754.1	43	6.1		nw.			4		5		nnw.	1 h'r	1 h'r	mod	var.	fair.
S. S. Lake Manitoba, N. 55° 15′, W. 43° 24′	29.73	755.1	47	8.3		w.			5		5		w.	4 h'r	4 h'r	mod.	w.	fair.
S. S. Daniel Steinmann, Antwerp, Belgium*†	29.82	757.4	64	17.8		ssw.			5		5		ssw.	6 h'r	6 h'r			fair.
S. S. Saxon, Boston, Mass†	29.36	745.7				wsw.			4		1							fine.
S. S. Britannic, N. 42° 48′ W. 51° 40′ †.	30.13	765.3	53	11.7		se.			2		1		se.	0	0	long	se.	blue sky.
S. S. Celtic, N. 48° 58′ W. 39° 25′†	30.00	762.0	60	15.6	76	nw.			5		8		nw.	6 h'r	6 h'r	mod.	w.	raining.
S. S, Algiers, N. 24° 20′ W. 81° 51′	30.05	763.3				s.			1							sm'h		cloudy.
S. S. City of Alexandria, N. 34° 50′, W. 75° 01′ *†	29.86	758.4	79	26.1		nw.			5							small	sw.	raining.
Bk. Arda, N. 48° 51′, W. 14° 38′ †	29.76	755.9				sw.			2		2?		sw.	sh'rs	sh'rs	r'gh	sw.	overcast.?
Bk. Alpheus Marshall, N. 28° 20′, W. 26° 46′*†	30.16	766.1	76	24.4	95	ssw.			2		10		calm	0	0	long	wnw.	cloudy.
Bk. Arladne, N. 41° 28′, W. 62° 45′	29.70	754.4	71	21.7	95	sse.			6		10		ssw.	12 h'r	12 h'r	cross	ssw.	light rain.
Schr. Arthur Burton, Boston, Mass†	29.39	746.5				sw.			4		2		wsw.	4 h'r	4 h'r	sm'h		clear.
Schr. Abbie H. Gheen, Gloucester, Mass†	29.40	746.7	62	16.7		wnw.			6									clear.
S. S. Antonio Lopez, Santander Spain	30.10	764.5	74.5	23.6	74	w.			3		2			13 h'r	13 h'r	sm'h		clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Adelaide, N. 11° 22′, W. 36° 22′†*	30.07	763.8				ene.			5		5		ene.	0	0	mod.	ese.	threatening.
Bg. Belle of the Bay, N. 25° 01′, W. 83° 52′†	29.99	761.7				sw.			3		10		sw.	24 h'r	24 h'r	var.	wnw.	raining.
S. S. Cannonbury, N. 26° 50′, W. 69° 21′*†	30.10	764.5				var.			1		3		nw.	2 h'r	2 h'r	sm'h		clear.
Bk. Ceylon, N. 30° 21′, W. 42° 08′†	30.13	765.3	78	25.6	65	ene.			5		5		ese.	0	0	mod	nne.	fair.
Schr. C. R. Flint, N. 23° 37′, W. 55° 20′†	30.00	762.0	85	29.4		calm			0		3		e.	0	0	long	ne.	clear.
Bk. Don Justo, N. 45° 31′, W. 50° 47′*†						ssw.			1		fg.		ssw.	0	0	mod.	ne.	foggy.
Bk. Childwall, N. 11° 23′, W. 25° 16′			84	28.9	79	ene.			2		3		ene.	0	0	sm'h		hazy
Bkt. David A. Preston, N. 43° 40′, W. 69° 00′						ssw.			8		2		w.	6 h'r	6 h'r	h'vy	ssw.	
Bk. Diamant, N. 38° 50′, W. 56° 52′	30.09	764.3	75.9	24 4	80	s			6		9 s		w.	0	0	4	ssw.	covered.
S. Dynomine, N. 42° 30′, W. 11° 15′	30.03	762.7	67.5	19.7	97	s.			6		9			mod.	mod.	high	w.	gloomy.
S. David Stewart, N. 29° 23′, W. 67° 25′†	30.06	763.5	90?	32.2?		var.			1		4		s.	0	0	long	e.	
S. E. J. Spicer, Antwerp, Belgium	29.77	756.1	64	17.8	89	sw.			5		10		sw.	12 h'r	12 h'r			cloudy.
Schr. Edith R. Seward, N. 32° 06′, W. 80° 04′†	29.99	761.7	73	22.8		nnw.			2		7		ene.	3 h'r	3 h'r	mod.	nw.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.67	763.8	74	23.3		w.			1		0			0	0			clear.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	29.56	750.8	60	15.6		w.			8		2		w.	0.48	12.2	mod.	w.	clear.
S. Gatherer, N. 23° 08′, W. 38° 05′*	30.05	763.3	83	28.3	79	var.			2		4			¼ h'r	¼ h'r	sm'h	nnw.	clear.
Bg. George, Salinas, Porto Rico, W. I.*†	30.02	762.5	82	27.8		ne.			1		0			0	0			clear.
Bk. Galeon, N. 28° 28′, W. 19° 44′†	30.15	765.8	76	24.4		ne.			2		9		ne.	0	0		var.	overcast.
Bk. Grey Eagle, N. 10° 29′, W. 34° 15′						ene.			2		2		sw.	0	0	sm'h		clear.
S. Hedwig, N. 26° 58′, W. 22° 02′	30.17	766.4	80.6	27.0	65	ne.			3		3		ne.	0	0	2-3	var.	fine.
Bk. Johanne, N. 45° 59′, W. 48° 34′*†	30.10	764.5	51	10.6		s.			2		10		s.	8 h'r	8 h'r	long	sw.	foggy.
Schr. John L. Thomas, N. 34° 50′, W. 75° 46′*†	29.90	759.4	75	23.9	77	nw.			2		9		nw.	1 h'r	1 h'r	light	sw.	fair.
Schr. Jennie N. Huddell, Delaware Bay†	29.83?	757.7?	63	17.2	78	sw.			5		0			rain	rain			clear.
Bk. John H. Pearson, N. 40° 10′, E. 1° 30′						sw.			1				wnw.			sm'h		clear.
Schr. Jas. Slater, N. 9° 45′, W. 52° 46′†	30.05	763.3				se.			3		2		se.	0	0	mod.	ene.	
Bg. Josefa, N. 46° 15′, W. 40° 20′†	30.11	764.8				nw.			6		8		nw.	rain	rain	h'vy	nw.	cloudy.
Bkt. Kryolith, N. 46° 20′, W. 53° 00′ *†	30.06?	763.5?				ssw.			3		5		ssw.			mod.		hazy.
Bk. Lady Hincks, N. 23° 17′, W. 37° 41′*†	30.10	764.5							1-3					0	0			
Bg. L. & W. Armstrong, N. 28° 22′, W. 67° 36′*†.	30.08	764.0				se.			1		1		se.	0	0	mod.	ne	fine.
S. S. Madrid, Taganrog, Russia †	29.98	761.5	59	15.0	70	w.			3		9		w.	4 h'r	4 h'r			raining.
Bk. Matilda C. Smith, Delaware Bay*†	29.80	756.9				wsw.			5		3		wsw.	12 h'r	12 h'r	mod.	s	fine.
Bk. Orpheus, N. 40° 50′, W. 61° 26′			76	24.4		nw.			6		8		w.	6 h'r	6 h'r	h'vy	sw.	fair.
Schr. Rollin Sanford, N. 28° 17′, W. 82° 50′†	29.92	760.0				n.			6		10		n.	rain	rain		sw.	
Bk. Rosalie, N. 43° 56′, W. 12° 40′*†	29.96	761.0				sw.			6		4		sw.	3 h'r	3 h'r	high	w.	fair.
Schr. S. B. Hubbard, N. 31° 58′, W. 78° 01′†	30.01	762.2	73	22.8		nw.			1				nw.	10 h'r	10 h'r			fine.
Bk. Saga, N. 57° 55′, E. 18° 10′ *†	30.00	761.9	55	12.8		var.			1-5		2		var.	0	0	sm'h		clear.
S. Salisbury, N. 39° 09′, W. 67° —′	29.60	751.9	70.7	21.5	86	w.			6		6		w.	2 h'r	2 h'r	cross	var.	cloudy.
Bgt. Sunlight, N. 23° 53′, W. 67° 44′*†	30.08	764.0				nne.			3		6		ne.	0	0	long	nne.	fair.
Bg. Samuel B. Hale, N. 35° 50′, W. 61° 10′*†	30.20?	767.1?				ssw.			6		2		sw.	0	0	short	s.	clear.
Bk. Sunbeam, N. 38° 50′, W. 75° 10′†	29.76	755.9	60	15.0	82	sw.			6		0			12 h'r	12 h'r			clear.
Bk. Scud, N. 34° 12′, W. 66° 51′*†	30.00	762.0	83	28.3		sw.			7		4		sw.	0	0	mod.	sw.	fair.
Bk. St. Lawrence, N. 26° 46′, W. 58° 00′.*†	30.00	762.0				e.			4				ese.	0	0	h'vy	ne.	d. clouds.
Bk. Tuck Sing, N. 36° 35′, W. 74° 17′ *†	29.86	758.4				nw.			4		10		w.	2 h'r	2 h'r	sm'h		fair.
S. S. Tower Hill, N. 49° 48′, W. 21° 11′*†	29.67	753.6				wsw.			5		6		w.			r'gh	w.	cloudy.
Schr. Viola Reppard, Brunswick, Ga						ese.			2		2		calm	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 13° 21′, W. 38° 40′	30.05	763.3	77	25.0	93	ene.			1		9							misty.
H. M. S. Opal, St. Helena, Africa	30.19	766.8	70	21.1	80	ese.			3		4	se.						blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.12	765.0	57	13.9	87	ne.			2-4		10							overcast.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.99	761.7	76.1	24.5	84	ssw.			3		10	ssw.		2 h'r	2 h'r	2		gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.12	765.0	58	14.4	94	ene.	8	3.6			10		ne.	0	0	sm'h		misty.
U. S. S. Nipsic, Montevideo, Uruguay*	30.08	764.0	61	16.1	77	ne.			4		5					mod.		fair.
S. S. Teneiro, N. 0° 56′ W. 30° 18′	30.07	763.8	78.8	26.0	78	se.			5		5 k			0	0	3	se.	d clouds
S. S. Hohenstaufen, S, 3° 42′, W. 32° 24′	30.09	764.3	77.9	25.5	100	se.			3		3		se.	0	0	sm'h	se.	fair.
Bk. Aureola, S. 4° 44′, W. 31° 04′ †	30.00	762.0	89	31.7		ese.			5		1		ese.	0	0	mod.	se.	clear.
Bk. E. L. Pettingill, S. 26° 05′. W. 35° 44 *†	30.20	767.1	70	21.1		sw.			6		2		ssw.	0	0	r'gh	ssw.	
Bk. Great Surgeon, S. 39° 30′, E. 9° 00′ *†	30.37	771.4	56	13.3		w.			5		8		nw.	1 h'r	1 h'r	mod.	wsw.	cloudy.
Bk. Godeffroy, S. 57° 22′, W. 65° 16′	29.70	755.9	41.5	5.3	97	w			3		10		w.	8 h'r	8 h'r	sm'h	n.	cloudy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.17	766.3	60	15.6		ene.			2		7			0	0			fair.
Bk. Pilgrim, S. 31° 57′, E. 13° 00′*†	30.30	769.6				se.			4		3		se.	0	0	mod.	se.	clear.
Bgt. Willie, S. 15° 00′, W. 35° 15′ *†	30.11	764.8	81	27.2		calm			0		10		calm	2 h'r	2 h'r	mod.	cross	drizzling.
Bk. Mohican, S. 20° 10′, W 30° 43′	29.90	759.4	76	24.4		wsw.			5		3		sw.	0	0	long	ssw.	fair.
S. S. Olbers, S. 20° 54′, W. 39° 34′	30.22	767.6	73	22.8	90	se.			3		8		se.	0	0	slf't	s.	fine.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.29	769.4	64	17.8		sse.			1		4	ssw.						d. clouds.
Bg. John Wesley, Pernambuco Road, Brazil *†	30.00	762.0	79	20.1		ene.			2		9		ne.	0	0	mod.	e.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, St. Vladimir Bay, Siberia	29.75	755.6	51	10.6	86	calm			0		0					sm'h		blue sky.
H. M. S. Flying Fish, N. 37° 02′, E. 125° 55′	30.10	764.5	63	17.2	64	wnw.			6		4	nw.				6	wnw.	d. clouds.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.88	758.9	83.5	28.6	79	nne.			1		5		w.					d. clouds.
H. P. M. S. Tamega, Canton, China	30.03	762.8	85.1	29.5	74	calm			0		10			0	0			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.05	763.3	66.5	19.2	81	calm			0		8		w.	inap.	inap.			cloudy.
U. S. S. Essex, Roze Island, Corea	30.10	764.5	63	17.2	57	nw.			4		2					sm'h	nw.	clear.
U. S. S. Hartford, N. 7° 23′, W. 79° 50′ *	29.86	758 4	80	26.7	91	nw.			3		10			sh'rs	sh'rs	sm'h	s;w	cloudy.
U. S. S. Juniata, Singapore, Malay Peninsula	29.92	760.0	83	28.3	91	sw.			1		5			0	0	sm'h		hazy.
U. S. S. Monocacy, Che Foo, China	30.16	766.1	63	17.2	62	ne.			2		2		calm			sm'h		fair.
U. S. S. Palos, N. 22° 40′, E. 115° 47′	30.05	763.3	80	26.7	82	e.			4		2		ne.			mod.	e.	fair.
U. S. S. Pensacola, N. 20° 39′, E. 106° 29′ *	29.88	758.9	83	28.3	79	ese.			2-3		2		ese.	0	0	light	se.	clear.
U. S. S. Richmond, Yokohama, Japan	29.98	761.5	70	21.1	75	se.			1		2		se.	0	0			clear.
S. S. Columbia, Walkers Island, Oregon†	30.11	764.8	55	12.8	93	calm			0		10		calm					smoke; fog.
S. S. Oregon, San Francisco, Calf	29.99	761.7	50	13.3	81	calm			0									foggy.
S. S. Ancon, San Francisco, Cal †	29.92	760.0	55	12.8	87	calm			0		0							clear.
S. S. State of California, Astoria, Oregon†	30.13	765.3	58	14.4	94	n			2		10							foggy.
S. S. Queen of the Pacific, San Francisco, Cal †	30.00	762.0	55	12.8	100	calm			0		0							fog; smoke.
S. S. Victoria, off Bodega Head, Calf	29.90	759.4	56	13.3	87	nnw.			5		5		nnw.			mod	nnw.	hazy.
S. S. City of New York, N. 32° 59′ W. 132° 57′†	30.07	763.8	69	20.6	85	nw.			1		10		nnw.			sm'h		overcast.
S. S. City of Pekin, Yokohama, Japan†.	30.04	763.0	70	21.1	75	se.			2		10		e.	0	0			cloudy.
S. S. City of Tokio, Hong Kong, China†	30.08	764.0	83	28.3	87	ese.			2		4		ese.	0	0			fair.
S. S. City of Rio de Janeiro, N. 34° 55′, E. 149° 35′†	29.83	757.7	73	22.8	85	n.			6		7		ne.	0	0	rg'h	nne.	gale.
S. S. Granada, Panama, Panama †	29.89	759.2	79	26.1	86	nw.			1		10?		nw.	3 h'r	3 h'r	light	s.	clear.?
S. S. San Blas, N. 18° 07′, W. 103° 23′†	29.97	761.2	80	26.7		e.			5		7		e.	0	0	mod.	s.	cloudy.
S. S. Zealandia, N. 21° 37′, W. 156° 24′†	30.06	763.5	78	25.6	91	nw.			3		10					sm'h		overcast.
S. S. San Juan, N. 22° 25′, W. 108° 37′	29.74	755.4	78	25.6		ene.			6		5ck		ne.	1 h'r	1 h'r	light	se.	squally.
S. S. Armenia, N. 4° 35′, W. 115° 20′ *	29.94	760.5	78	25.6	86	s.			3		8		s.	0	0	sm'h	s.	cloudy.
S. S. Storm King, N. 18° 43′, W. 120° 52′ *†	30.03	762.8				nnw.			2		2		n.	0	0	sm'h	n;s.	clear.
S. S. St. David, N. 39° 23′, W. 127° 40′*†	30.10	764.5	68.3	20.2	90	n.			2		8		n.	0	0			cloudy.
S. S. E. B. Sutton, N. 23° 50′, W. 120° 32′*†	30.01	762.2	72	22.2	90	nnw.			3		7?		nw.	0	0	sm'h	nw;s.	overcast.?
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.93	760.2	82.3	27.9	81	calm			0		4					sm'h		misty.
H. M. S. Mutine, S. 0° 05′, W. 85° 17′	30.05	763.3	69	20.6		ssw.			3		10					2	ssw.	raining.
U. S. S. Iroquois, Callao, Peru	30.07	763.8	60	15.6	94	s.			1		10							cloudy.
U. S. S. Lackawanna, S. 19° 58′, W. 70° 30′*	30.05	763.3	60	15.6	77	ene.			1		8					sm'h		cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Onward, Callao, Peru*†	30.16	766.1	59	15.0	94	sse.	.....	.....	1	.....	10	.....	sse.	.....	.....	.....	.....	cloudy.
U. S. S. Wachusetts, S. 15° 58′, W. 74° 31′ *	30.09	764.3	60	15.6	94	sse.	.....	.....	4	.....	8	.....	se.	.....	.....	long	se.	cloudy.
S. S. City of Sydney, Sydney, N. S. W*†	30.05	763.3	63	17.2	83	ene.	.....	.....	2	.....	7 k	.....	e.	.....	.....	.....	.....	cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.11	764.8	64	17.8	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	mod.	se.	dense fog.
S. David Crocket, S. 50° 03′, W. 99° 10′ *	29.15	740.4	43.5	6.4	83	wnw.	.....	.....	5	.....	5	.....	wnw.	5 h'r	5 h'r	mod.	wnw.	showery.
S. Sovereign of the Seas, S. 22° 44′, W. 87° 45′ *†	30.25	768.3	66	18.9	90	nw.	.....	.....	2	.....	6	.....	nw.	0	0	long	nw.	fair.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 08′, E. 57° 29′	30.13	765.3	.....	.....	.....	ese.	.....	.....	3	.....	5	ese.	.....	.....	.....	2	ese.	showery.
H. M. S. Euryalus, Zanzibar, Zanzibar	29.99	761.7	78	25.6	82	wnw.	.....	.....	1	.....	4	ese.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	78	25.6	87	w	.....	.....	2	.....	2	wsw.	.....	.....	.....	2	wsw.	showery.
H. M. S. Woodlark, Bassorah, Turkey	29.87	758.7	90.5	32.5	54	nw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Galatia, Diamond Harbor, India	29.74	755.4	81	27.2	87	ne.	.....	.....	3	.....	2	.....	ne.	0	0	.....	.....	fine.
S. S. Benledi, N. 12° 45′ E. 47° —/*	29.74	755.4	87.5	30.8	94	var.	.....	.....	0–2	.....	0	.....	.....	0	0	sm'h	.....	hazy.

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



UNITED STATES OF AMERICA.

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

Signal Office 14th.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 26. 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.0	81.0	27.2	81	s.			1*		0			0	0	clear	Roziere.
Algiers			30.09	764.3	79.9	26.6	45	ne.			1		0			0	0	clear	Thève.
La Calle			30.05	763.3	79.9	26.6	68	nnw.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.06	763.4	78.8	26.0	54	n.			4		3			inap.	inap.	pretty fair	Delord.
Saida			30.17	766.2															Pérès.
Tebessa			30.08	764.1	73.4	23.0	59	n.			6		3			0	0	pretty fair	St. Martin.
Geriville					84.2	29.0	29	ne.			1		0			0	0	clear	Forfert.
Laghouat			30.15	765 8	89.2	31.8	27	n.			1		0			0	0	clear	Abraham.
Biskra			30.10	764.5	92.5	33.6	12	nw.			5		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.39	771.9	44.4	6.9	80	s.	7	3.1			1 s			0.007	0.2	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.19	766.8	30.28	769.1	46.6	8.1	76	sse.	4	1.8			1			0.03	0.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.57	751.0	30.11	764.7	64.9	18.3	63	se.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.1	30.01	762.3	61.5	16.4	79	wsw.	9.4	4.2			10			0.138	3.5		Dr. Wierzbiski
Eperies	29.20	741 7	30.08	763.9	57.6	14.2	75	s.			1	4 cs				0.114	2.9		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.68	728.4	30.09	764.3	61.5	16.4	41	se.			3		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.5	30.08	764.0	62.2	16.8	77	w.			1		8			0	0	cloudy	The Staff.
Lemberg	29.08	738.5	30.07	763.8	52.5	11.4	79	sw.			3		10			inap.	inap.		Dr. T. Stanecki.
Pola	29.95	760.7	30.06	763.4	75.9	24.4	43	nne.			4		2			0	0		I. R.Hydrographic Office.
Szathmar	29.63	752.6	30.09	764.3	63.1	17.3	55	e.			4		4			0	0		Joseph Midlinszky, S. J
Szegedin	29.82	757.4	30.10	764.4	64.4	18.0	59	s.			1		4			0	0		Karl Stu[illegible]cel.
Trieste	30.00	762 1	30.10	764.6	72.1	22.3	56	nw.			2		0			0	0		Royal Academy.
Vienna	29.47	748.5	30.17	766.4	65.5	18.6	68	sw.			2		5			0.236	6.0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.27	743.4	29.37	746.0	52.7	11.5	95	se.	26	11.6			10			0.650	16.5	raining	W. Boswell.
Armagh, Observatory	28.73	729.7	28.96	735 6	54.3	12.4	85	sw.	24	10.7			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.43	747.5	60.0	15.6	60	sw.	41	18.3			7					d. clouds	John Hartnup.
Bolton, Sharples	28.92	734.6	29.44	747.8	57.9	14.4	67	ssw.	36	16.1			8					gloomy	Thomas Mackereth.
Bradford, Yorkshire	29.04	737.6	29.44	747.8	60.4	15.8	61	sw.			5		7			1.34	34.0	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	72	ne.			3		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.54	750.3	29.65	753.1	67.0	19.4	64	w.			7.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.54	750.3	29.70	754.4	66.0	18.9	68	sw.			3		6			blank	blank	d. clouds	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.56	750.8	29.78	756.4	61.0	16.1	71	sw.			6		4					d. clouds	The Staff.
Fort Napier, Natal	27.82	706.6	30.05	763.3	72.0	22.2	52	e.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.61	752.1	29.84	757.9	87.0	30.6	80	nw.			3		2					lightning	J. W. Smith.
Galway, Queen's College	29.08	738.6	29.11	739.4	53	11.7	93	w.			7		10			0.26	6.6	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	78.0	25.6	94	e.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	28.93	734.8	29.14	740.1	58.2	14.6	70	s.			7		9					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.53	750.0	29.69	754.1	66.5	19.2	66	sw.			5		6					d. clouds	The Staff.
Guernsey	29.59	751.6	29.88	758.9	62.5	16.9	88	wsw.			5		9					d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.67	753.6	29.71	754.6	64.4	18.0	60	w.	20	8.9			6					d. clouds	The Staff.
Leicester, Museum	29.32	744.7	29.56	750.8	64.0	17.8	58	sw.			4		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.94	760.5	71.4	21.9	73	ne.			2		4			0.14	3.6	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.09	764.3	84.0	28.9	68	s.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.07	738.4	29.58	751.3	62.5	16.9	77	ssw.			8		6					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.45	748.0	29.68	753.9	62.0	16.7	61	sw.			6		5					d clouds	The Staff.
Plymouth	29.69	754.1	29.77	756.1	61.4	16.3	74	wsw.			6		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys.	29.30	744.2	29.40	746.7	53.8	12.1	90						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.87	758.7	29.93	760.2	65.0	18.3	72	ne.			2		10					gloomy	W. H. Lyne.
Sheffield	29.23	742.4	29.50	749 3	62.6	17.0	62	sw.			6		2			0.12	3.0	d. clouds	W. F. Cooper.
Silloth Rectory	29.21	741.9	29.24	742.7	59.7	15.4	68	s.			6		3			0.880	22.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.44	747.8	59.2	15.1		sw.	33	14.8			10					overcast.	W. C. Carlisle.
Strathfield Turgiss					65.0	18.3	68	sw.			2.5		5					d. clouds	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	29.73	755.1	29.82	757.4	63	17.2	67	w.			7		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.53	750.0	29.55	750.6	58.6	14.8	65	wsw.	39	17.4			6					misty	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.53	750.0	29.93	760.2	69.8	21.0	72	ne.	12.4	5.5		3 c	5 n	w.	ne.	0.472	12.0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.55	750.6	29.58	751.3	47	8.3	70	nw.	8	3.6		8 k	0			0.18	4.6	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.50	749.3	29.54	750.3	50	10.0	65	w.	18	8.0			10 n		nw.	0.040	0.1	cloudy	H. J. Cundall, C. E
Chatham, N. B*	29.52	749.8	29.58	751.3	47	8.3	68	nw.	14	6.3		2 k	2 k	nw.	nw.	0.03	0.8	fair	G. A. Blair.
Cornwall, Ontario	29.70	755.9	29.96	761.0	38.2	3.4	89	sw.			2	0	0			0.104	2.6	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.47	748.5	29.52	749.8	45.0	7.2		w.			6	0	3 ks			0.10	2.5	d. clouds	H A. Johnson.
Edmonton, N. W. T	27.76	705.1			27	— 2.8	42	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.60	751.8	29.62	752.3	42	5.6	96	nw.	25	11.2		2 cs	5 ks	nw.	nw.	0.73	18.5	fair	J. McWilliams.
Fort Garry, Manitoba*	28.88	733 5	29.73	755.1	36	2.2	89	sw.	5	2.2		0	hz.			0	0	hazy	James Stewart.
Fredericton, N. B	29.64	752.8	29.70	754.4	47.0	8.3	55	nw.	14.0	6.3		1 k	0	nw.		0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	29.70	754.4	29.76	755.9	46	7.8	83	nw.	13	5.8		2 k	0	ne.		0	0	fair	J. Chipman Seeley
Granton, Ontario	28.98	736.1	30.11	764.8	40.0	4.4	100	sw.	2	0.9		1 k	0	sw.		0.11	2.8	blue sky	Jas. Grant.
Halifax, N. S*	29.54	750.3	29.67	753.6	51	10.6	69	w.	11	4.9		5 k	0	w.		0.590	15.0	clear	A. Allison.
Hamilton, Ontario	29.66	753.4	30.05	763.3	43.5	6.4	88	sw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.70	754.4	30.04	763.0	40	4.4	86	w.	5	2.2		0	0			0	0	clear	A. P. Knight, M. A
Little Glace Bay, N. S	29.45	748.0	29.49	749.0	56.0	13.3	91	w.			5					0.021	0.5	raining	C. H. Rigby.
London, Ontario	29.22	742.2	30.15	765.8	38.7	3.7	95	calm	0	0		0	2 ks			0.04	1.0	blue sky	E. B. Reed.
Medicine Hat	27.81	706.4	30.15	765.8	36	2.2	72	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.73	755.1	29.94	760.5	40	4.4	82	sw.	15	6.7		0	0			0.17	4.3	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.70	754.4	29.95	760 7	36.8	2.7	95	sw.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.28	743.7	29.97	761.2	49	9.4	77	sw.	12	5.4		0	0			0.02	0.5	clear	Rev. R. Mosley.
Peterboro, Ontario	29.28	743.7	30.02	762.5	47.2	8.4	77	w.			1	0	0			0	0	blue sky	Wm. O'Connor,M.A.
Port Dover, Ontario	29.40	746.7	30.11	764 8	42	5.6	100	w.	4	1.8		7 k	0	nw.		0	0	fair	H Morgan
Port Stanley, Ontario	29.45	748.3	30.12	765.0	40	4.4	89	w.	8	3.6		5 k	0	nw.		0.02	0.5	fair	M. Payne.
Qu Appelle, N. W. T	27.67	702.6	29.97	761.2	38	3.3	72	nw.	12	5.4		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.45	748.0	29.81	757.2	39	3.9	92	w.	16	7.2		5 cs	0	w.		0.07	1.8	fair	Capt. Asue, R. N.
Rockliffe, Ontario*	29.44	747.8	29.91	759.7	30	2.2	92	nw.	5	2.2		0	0			inap.	inap.	clear	W. H. McIntyre.
St. Andrews, N .B	29.67	753.0	29.72	754.9	45	7.2	68	nw.	10	4.5		0	0			0	0	clear	
St. John, N. B	29.56	750.8	29.70	754.4	47.0	8.3	55	nw.	10	4.5		1 c	0	nw.		0.57	14.5	blue sky	G. Hutchinson.
Saint John's, N. F					48	8.9	92	calm			2	0	2 s			0.05	10.5	clear	The Commandant.
Saugeen, Ontario*	29.31	744.5	30.02	762.5	51	10.6	64	sw.	27	12.1		5 k	0	w.		0.01	0.3	fair	
Stratford, Ontario	28.80	731.5	30.11	764.8	37.5	3.1	96	w.	2.0	0.9		0	0			0	0	blue sky	O. J. Macgregor, M. A
St. Pierre, N. F			29.45	748.0	55.4	13.0		w.			3					0.07	1.8		The Commandant.
S. W. Point, Anticosti	29.18	741.2	29.21	741.9	45	7.2	93	nw.	8	3.6		2 k	0	nw.		0.35	8.9	clear	Miss Grace Pope

STATIONS.	Barometer. Corrected for instruments, error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CANADIAN.—Continued.																			
Sydney, C. B.	29.39	746.5	29.45	748.0	56	13.3	74	sw.	20	8.9			10 ks		w.	1.10	27.9	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.70	754.4	30.09	764.3	43	6.1	80	nw.	8	3.6		2 ck	2 ks	w.	w.	0	0	fair	Magnetic Observatory.
Woodstock, Ontario	29.08	738.6	30.16	766.1	42.2	5.7	87	sw.	4.5	2.0		5 cs	0	nw.		0	0	d. clouds	Prof. Wolverton, M.A.
Yarmouth, N. S*	29.69	754.1	29.76	755.9	49	9.4	74	nw.	30	13.4		0	2 k		nw.	0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	64.0	17.8	89	se.	8.5	3.8		0	2 s			0	0	fine	I. Garfelt.
Springbok Fontein	27.87	707.9			81	27.2	33									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	30.07	763.8	30.15	765.8	55.8	13.2	86	sw.			1		10					cloudy	Samuel Redolez.
Iquique	30.13	765.2	30.15	765.9	61.7	16.5	72	ne.			3							cloudy	Rafael Moreno.
Niebla	29.32	744.8	29.43	747.5	50.7	10.4	86	nw.			5		5		nw.	0.173	4.4	raining	Federico Kühling.
Punta Caldera	30.00	761.9	30.12	765.1	56.8	13.8	83	se.			1		6 n		se.			fair	Manuel Tobar.
Punta Corona	29.95	760.6	30.13	765.4				n.			4	6 c				0	0	fair	Ignacio Ayala.
Valparaiso	29.94	760.4	30.08	764.0	54.9	12.7	88	w.			1							cloudy	Paez-I-Ampuero.
CHINESE (*sub-series*).																			
Sung-shu-chwang	25.22	640.7																	A. Guelny.
Zi-Ka-Wei, near Shanghai.	30.19	766.8	30.21	767.4	64.2	17.9	63	ne.	3.4	1.5			5			0	0	cloudy	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.76	755.8	29.80	757.0	58.8	14.9	86	s.	11	5			10					hazy	Oversergent Fischer.
Fanoe	29.75	755.7	29.77	756.2	59.4	15.2	92	ssw.	9	4			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.42	747.3	29.47	748.4	49.6	9.8	83	se.	4	2			8						A. O. Thorlacius.
Thorshavn	29.53	750.0	29.55	750.6	51.3	10.7	99	se.	7	3			10					raining	Overloerer Bergh.
Vestervig	29.65	753.1	29.74	755.4	59.9	15.5	90	ssw.	4	2			6						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.66	753.3			88.2	31.2		n.	5.8	2.6			1 k			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.54	750.2	30.23	767.8	74.5	23.6	72	se.			1		k		se.	0.417	10.6		M. Labroue, Director.
Alençon, Normal School	29.58	751.3	30.09	764.3	64.8	18.2	94	s.			1		n		n.	0.165	4.2		M. Nicot, Director.
Avignon, Normal School	30.02	762.4	30.10	764.4	80.6	27	49	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.9	30.03	762.7	68.4	20.2	76	ssw.			2		8 kn		wsw.	0	0	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.62	752.4	29.88	758.9	71.2	21.8	62	sw.			4		10		sw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.14	740.1	30.03	762.7	68.4	20.2	76	wnw.			1					0	0		M. Gobin, Director.
Bordeaux, Observatory	29.82	757.5	30.08	763.9	73.8	23.2	74	ese.			1		10		s.	0.118	3.0	covered	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.03	762.8	67.1	19.5	68	sw.			1		k		sw.	0.004	0.1		M. Malet, Director.
Brest, Naval Observatory	29.74	755.3	29.98	761.5	63.0	17.2	81	sw.			2		9		sw.	0.031	0.8		M. de Kermarée, Dir.
Caen, Normal School	29.79	756.6	29.87	758.7	69.4	20.8	80	sw.			2		8		sw.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.69	754.0	30.00	762.9	67.1	19.5	87	sw.			2		10		w.	0.453	11.5	covered	M. Jadot, Director.
Charleville, Normal School	29.45	748.0	29.95	760.8	62.2	16.8	85	ssw.			1		10			0.39	10.	raining	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.74	730.1	30.04	763.0	77.7	25.4	54	ne.			1		5			0	0		M. Alluard, Director.
Cluny, Normal School	29.30	744.2	30.14	765.6	68.2	20.1	75	sw.			1				sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.3	30.02	762.6	66.2	19	75	w.			6		5 kn	w.	w.	0.087	2.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.58	700.6	30.03	762.8	73.4	23	43	s.			2		0			0.59	15.		M. Jarach, Director.
Gréasque, du Rhone	28.98	736.0	30.06	763.4	78.4	25.8	31	nw.			1		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.36	745.8	30.11	764.7	71.6	22	59	ssw.			1		1		nw.	0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.54	725.0	30.08	764.1	66.2	19	81	sw.			1		10 n		sw.	0.08	2.	covered	M. Delorme, Dir.
Lamballe, Normal School	29.64	752.8	29.91	759.8	65.3	18.5	66	w.			2		8		w.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.9	30.11	764.8	82.4	28.0	51	sw.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.8	29.98	761.4	61.5	16.4	85	sw.			2				sw.	0.063	1.6	foggy	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.5	30.10	764.5	72.0	22.2	62	se.			1	10 ck		nnw.		0	0	covered	M. André, Director
Mans, Normal School	29.63	752.6	29.93	760.2	67.1	19.5		wsw.			4		10			0.028	0.7	light rain	M. Richard, Director
Marseille, Observatory	29.83	757.7	30.10	764.4	75.4	24.1	54	ssw.			1		1			0	0		M. Stephan, Director.
Montlouis	25.00	634.9	29.84	757.9	57.2	14.0	37	sw.	16.8	7.5			4	w.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.3	30.04	762.9	81.0	27.2	80	nw.			2		10			0	0	covered	M. Galzin, Director.
Nantes, Observatory	29.86	758.5	30.02	762.6	68.7	20.4	86	wsw.			1-4		10 n		wsw.	0.126	3.2		M. Lacroque, Director.
Perpignan, Observatory	30.00	762.0	30.11	764.8	79.3	26.3	60	s.	3.8	1.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.52	546.5			52.5	11.4		w.			1		1		w.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.06	738.1	30.09	764.3	73.8	23.2	56						0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.33	643.3			54.9	12.7	94	w.			2		5			0.343	8.7		M. Alluard.
Rochefort, Naval Obs'y	30.01	762.3	30.04	763.1	75.2	24.0	80	s.			1		8		sw.	0.016	0.4	¾ cloudy	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.5	30.00	761.9	69.8	21	98	sw.			4		10		wsw.	0.51	13.	raining	M. Brotier, Director.
Rodez, Normal School	28.02	711.7	30.14	765.5	62.1	16.7	87	nw.			1		10		se.	0.039	1.0	covered	M. Seger, Director.
Rouen, Normal School	29.77	756.1	29.82	757.3	70.5	21.4	89	nw.			2		5	w.		0	0	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.80	757.0	29.97	761.2	69.3	20.7	77	sw.			2		10		wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.43	747.6	30.16	766.1	79.7	26.5	68	e.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.94	758.0	30.02	762.6	71.6	22.0	74	ssw.			2		8	sw.	sw.	0.012	0.3	very cloudy	M. de Tastes.
Versailles, Observatory	29.47	748.5	29.96	761.0	69.4	20.8	72	sw.			2		5			0.142	3.6	stormy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.95	760.7	30.10	764.5	81.7	27.6	61	e.	5.8	2.6		2 ck				0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.63	727.1	30.04	763.1	64.8	18.2	62	w.			2		8	w.		0.043	1.1		Prof. Jnedt.
Bamberg	29.22	742.1	30.06	763.5	66.2	19.0	55	w.			2		5 k		w.	0.012	0.3		Prof. Dr. Hoh.
Berlin	29.81	757.1	29.95	760.6	66.9	19.4	66	nw.			1		8			0.028	0.7		Dr. Lensch.
Breslau	29.50	749.2	30.03	762.7	62.4	16.9	68	w.			3		9	nnw.		0.035	0.9	sprinkling	Royal University Obs'y.
Carlsruhe	29.60	751.9	30.05	763.3	67.1	19.5	73	sw.			2		9	sw.		0	0		Albert Senz.
Cassel	29.25	743.0	29.97	761.1	61.7	16.5	87	s.			4		8	sw.		0.075	1.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.6	30.02	762.6	63.3	17.4	80	ssw.			1		10			0.024	0.6		Physical Society.
Friedrichshafen	28.69	728.8	30.08	764.0	65.8	18.8	74	sw			2		8	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.79	756.7	29.88	759.0	59.5	15.3	87	ssw.			5		10			0.551	14.0	dense haze	E. Preiler.
Kiel	29.83	757.6	29.84	758.0	59.0	15.0	86	calm			0		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.3	29.99	761.7	66.6	19.2	61	wsw.			3		7	w.		0.031	0.8		H. Leppig, Asst.
Magdeburg	29.74	755.5	29.93	760.2	66.6	19.2	62	sw.			2		10	sw.		0.047	1.2		Weather Observatory.
Memel	29.80	756.9	29.84	758.1	57.7	14.3	91	nw.			4		10 s					raining	Issermann.
Munich	28.26	717.9	30.13	765.4	65.8	18.8	58	w.			2		7	w.		0.102	2.6		Central Station.
Neufahrwasser	29.85	758.1	29.86	758.5	62.6	17.0	75	w.			2		9			0.087	2.2		A. Lothes.
Neustadt, Palatinate	29.47	748.4	30.02	762.6	68.0	20.0	80	s.			2		8	s.		0	0		Dicknether.
Stuttgart	29.10	739.2	29.97	761.3	67.1	19.5	68	sw.			2		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.83	757.6	29.85	758.2	56.3	13.5	94	w.			3		10 s			0.071	1.8		Profs. Brandes & Reimer
GREEK.																			
Athens	29.50	749.3	29.92	759.9	68.5	20.3		ne.			1.5		9			0.094	2.4		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.75	755.7	29.80	757.0	83.0	28.3	71	wsw.	30.0	13.4			3	wsw.	wsw.	0	0	d. clouds	
Deesa	29.28	743.6	29.73	755.2	95.0	35.0	37	w.	8.0	3.6			2	w.		0	0	d. clouds	
Bombay	29.79	756.6	29.83	757.6	78.5	25.8	91	nw.	18.0	8.0			10		wsw.	2.71	68.8	overcast	
Poona, Yarrowda	27.97	710.4	29.84	758.0	72.6	22.6	95	nw.	12.0	5.4			10			0.41	10.4	overcast	
Trichinopoly	29.51	749.6	29.79	756.6	91.4	33.0	48	ene.	0.1	0.04			2			0	0	d. clouds	
Bellary	28.28	718.3	29.72	754.9	88.0	31.1	47	wsw.	12.0	5.4			6			0	0	d. clouds	
Belgaum	27.30	693.5	29.87	758.7	70.3	21.3	95	w.	7.0	3.1			8	e.	w.	0.07	1.8	d. clouds	
Lahore	28.98	736.2	29.71	754.6	90.1	32.3	46	calm	0	0			0			0	0	blue sky	
Roorkee	28.80	731.4	29.68	753.8	87.8	31.0	61	calm	0	0			0			0	0		
Agra	29.16	740.6	29.70	754.4	98.1	36.7	25	nw.	4.0	1.8			4		nw.	0	0	d. clouds	
Nagpur	28.70	729.0	29.73	755.1	85.7	29.8	65	calm	0	0			7		w.	0.49	12.4	d. clouds	
Jubbulpore	28.41	721.6	29.74	755.5	88.1	31.2	48	nw.	6.0	2.7			5	nw.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.32	744 7	29.69	754.0	90.1	32.3	43	ssw.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.40	746.7	29.71	754.5	85.3	29.6	66	calm	0	0			0			0	0	blue sky	
Patna	29.54	750.3	29.72	755.0	85.0	29.4	76	se.	3.3	1.5			6	se.	se.	0	0	d. clouds	
Hazaribagh	27.73	704.4	29.74	755.3	77.5	25.3	83	calm	2.5	1.1			10			0.06	1.5	drizzling	
Cuttack	29.66	753 4	29.74	755.4	82.8	28.2	81	calm	0	0			8					showery	
Calcutta, Alipore	29.69	754.1	29.71	754.7	82.5	28.1	79	ene.	1.0	0.4			7	se.	se.	0.01	0.3	d clouds	
Dhubri	29.65	753.2	29.77	756.2	78.9	26.1	91	calm	0	0			10			0.12	3.0	gloomy	
Chittagong	29.73	755.1	29.82	757.4	76.1	24.5	93	s.	5.6	2.5			10			0.30	7.6	raining	
Sibsagar	29.47	748.6	29.81	757.2	77.8	25.4	92	se.	2.0	0.9			10	w.	w.	0.06	1.5	overcast	
Jeypore	28.33	719.6	29.73	755.2	94.7	34.8	28	wnw.	4.7	2.1			4		w.	0	0	d. clouds	
Zanzibar	30.00	762.0			78.4	25.8	76	nnw.	2.7	1.2			2		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.69	754.1	30.09	764.2	72.9	22.7	40	calm	0	0			1			0	0		Prof. Giovanni Clodig.
Milan	29.62	752.3	30.12	765.1	70.2	21.2	60	w	3.8	1.7			1			0	0		Prof. G.V.Schiapparelli
Padua	29.98	761.6	30.09	764.3	71.8	22.1	56	nne.	1.3	0.6			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.21	742.0	30.10	764.5	66.7	19.3	68	nw.	0.7	0.3			4	ne.		0	0		Prof. F. F. Denza.
Genoa	29.89	759.2	30.08	763.9	73.9	23.3	50	n.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.23	717.0	30.10	764.5	66.0	18.9	64	nw.			2		1			0	0		Prof. D. C. Bruno.
Pesaro	30.06	763.6	30.11	764.8	68.7	20.4	68	n.	16.8	7.5			1	ne.		0	0		Prof. Luigi Guidi.
Florence	29.80	756.8	30.04	763.1	76.1	24.5	41	n.			4					0	0		Prof. Costantino Pittei
Leghorn	29.93	760.3	30.02	762.4	71.6	22.0	63	w.	3.1	1.4			0			0	0		Prof. P. Tacchini.
Rome	29.82	757.3	29.98	761.6	77.7	25.4	36	nw.	3.1	1.4			0			0	0		Prof. P. Tacchini.
Lecce	29.70	754.3	29.94	760.5	73.0	22.8	57	nne.	13.6	6.1			1	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.0	29.92	760.0	68.4	20.2	62	wnw.	3.8	1.7			6	w.		0.224	5.7		Prof. D. Conti.
Cagliari	29.79	756.7	29.98	761.5	76.5	24.7	59	s.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.72	754.9	29.96	761.0	69.4	20.8	68	nne.	8.1	3.6			5	ne.		0.169	4.3		Prof. G. Caccintore.
Syracuse	29.88	759.0	29.93	760.1	70.0	21.1	71	nne.	11.2	5.0			10	nne.		0.098	2.5		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.46	748.3	29.97	761.2	73.6	23.1	49	ne.	3.8	1.7			1	ne.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.97	761.1	30.01	762.1	53.6	12.0	96	calm			0		10 k		w.	0.063	1.6	cloudy	H. Hattori.
Awomori	29.93	760.2	29.96	761.0	50.2	10.1	85	ssw.	1.1	0.5		0	2 s			0.107	2.7	fair	K. Ogawa
Hamamatsu	29.92	759.9	30.02	762.4	64.2	17.9	86	wnw.			4		10 s			0	0	overcast	Sekigawa & Yamazaki.
Kagoshima	30.11	764.8	30.12	765.1	64.0	17.8	64	calm			0		10 s			0	0	cloudy	G. Miyanonaza.
Kanazawa	29.96	761.0	30.06	763.6	57.0	13.9	92	ne.	4.5	2.0			9n;ck			0.289	7.3	raining	S. Endo.
Kioto	29.89	759.2	30.06	763.6	60.7	15.9	74	nne	1.9	0.8			10 s			0	0	cloudy	M. Tojima.
Kochi	30.06	763.4	30.08	763.9	65.0	18.3	69	wnw.	4.1	1.8		0	4 s			0	0	fair	K. Kusunose.
Minaaka	30.08	763.9	30.10	764.6	64.7	18.2	79	nnw.			1		10 s		w.	0	0	overcast	K. Masuaaki
Miyako	29.86	758.5	29.97	761.3	56.1	13.4	81	w.	0.8	0.4			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.93	760.2	30.13	765.3	63.0	17.2	68	calm	0	0			10 s			0	0		S. Takehayasu.
Niigata	30.00	762.0	30.03	762.7	57.7	14.3	94	se.	3.4	1.5			10 n		w.	0.405	10.3	light rain	Satoo & Tomikawa.
Nobiru	29.96	761.1	29.98	761.5	57.7	14.3	83	nnw.	6.3	2.9			10 s			0	0	covered	Yoslino & Midzushina.
Numazu	29.93	760.2	29.96	761.1	63.2	17.3	76	ene.			2		10 s			0	0	cloudy	R. Kaneda.
Osaka	30.04	762.9	30.05	763.3	63.0	17.2	72	ne.	3.8	1.7		0	0			0	0	clear	H. Omura.
Sakai	30.08	764.0	30.09	764.2	54.7	12.6	76	wsw.			2	0	0			0.071	1.8	clear	Yamawchi&Sakamoto.
Shimonoseki	29.98	761.4	30.12	765.1	61.9	16.6	83	calm			0	0	8 ks		w.	0	0	cloudy	S. Sakaio.
Tokei Obs'y, Yeddo	29.91	759.7	29.98	761.6	61.9	16.6	87	nne.	3.3	1.4			10 s			0	0	overcast	The Staff.
Wakayama	30.00	761.9	30.05	763.2	64.6	18.1	73	ne;ene	2.1	0.9			10ck;s			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	73.0	22.8	63	ese.	22.5	10.1		0	7k;ks		ese.	0.04	1.0	fair	The Staff.
MEXICAN.																			
Leon	29.36	618.7	30.06	763.5	56.8	13.8	94	wsw.	0.9	0.4		5 c	5s;ck	se.		1.796	45.6	overcast	Prof. M. Leal.
Mazatlan	29.72	754.8	29.97	761.3	75.0	23.9	90	e.	1.6	0.8			10 n		sw.	1.339	34.0	raining	F. Quijano, C. E.
Sub-series.																			
Altata					77	25.0	90	ne.			1	0	6 s		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29 78	756.5	29.78	756.5	65.8	18.8		ssw.			5					0.004	0.1		
Groningen	29.74	755.4	29.80	756.8	56.1	13.4		s.			2					0.098	2.5		
Helder	29.71	754.7	29.71	754.7	58.5	14.7		sse.			4					0.224	5.7		
Hellevoetsluis	29.78	756.5	29.78	756.5	62.1	16.7	90	sw.			4					0.079	2.0		
Utrecht	29.76	755.8	29.80	757.0	60.8	16.0	99	s.			2		10			0.091	2.3	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.1			82.0	27.8	74	nne.	0	0			8			0	0		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.61	752.1	29.67	753.7	54.7	12.6	89	sse.	8.7	3.9			9			0.496	12.6		
Brono	29.75	755.6	29.79	756.6	47.8	8.8	55	n.			6		2			0.217	5.5		
Christiania	29.63	752.5	29.77	756.2	53.8	12.1	64	wnw.	2	1			10			0.004	0.1		
Gjæsvær	29.67	753.7	29.70	754.3	35.6	2.0		nw.			7		10					foggy	
Lodingen	29.81	757.2	29.86	758.4	37.9	3.3	78	n.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores					67.6	19.8	83	calm	0	0			1			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.08	764.0	30.16	766.1	76.3	24.6	63	sw.	3.1	1.4			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.8	30.12	765.0	74.8	23.8	68	ssw.	3.1	1.4			2			0	0		The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.6	70.5	21.4	59	ne.	12.5	5.6			5			0	0		
Saint Paul de Loanda	29.80	756.8	30.00	761.9	78.8	26.0	76	n.			1		10			0	0		
San Salvador, Congo	28.15	715.0	29.98	761.6	77.7	25.4	52	nw.			1		10						
Serra da Estrella	25.50	647.8	30.04	762.9	71.2	21.8	17	s.	9.8	4.4			1			0	0		
RUSSIAN.																			
Akmolinski	28.76	730 5	29.78	756.3	76.6	24.8	27	wsw.	7	3		0	0			0	0		Major K. Lasarew.
Archangel	29.73	755.1	29.75	755.6	40.8	4.9	67	w.	9	4			10			0	0	light clouds	Capt. Sseltwerstow
Ashurada	30.07	763.8	29.98	761.4	81.9	27.7	71	nw.	11	5		0	1 k			0	0		
Astrakhan	30.29	769.3	30.21	767.4	56.3	13.5	47	nne.	18	8		ck	1 s			0	0		Capt. Wisganow.
Baku	30.08	764.0	30.03	762.8	72.3	22.4	75	n.	22	10			0			0	0		
Barnaul	29.51	749.6	29.99	761.8	66.7	19.3	43	s.	2	1			0			0.008	0.2	light clouds	Meteorological Obs'y
Bielosersk	29.50	749.4	29.97	761.3	47.8	8.8	58	w.	7	3		0	1 s			0.071	1.8		
Dorpat	29.64	752.9	29.89	759.1	52.9	11.6	65	s.	11	5			10 ks			0	0		Observatory.
Ekaterinburg	28.75	730.2	29.73	755.1	35.4	1.9	65	sw.	18	8			10			0	0		Meteorological Obs'y.
Elisawetgrad	29.82	757.5	30.28	769.0	57.0	13.9	35	ese.	11	5			7 c			0	0		
Irkutsk	28.62	727.0	30.31	769.8	40.5	4.7	61	ne.			1		4						
Kasalinsk																0.417	10.6		Observatory.
Kasan	29.72	754.9	30.00	761.9	44.1	6.7	58	w.	9	4		0	4 k			0.335	8.5	h'vy clouds	
Kem	29.68	753.8	29.73	755.1	41.2	5.1	58	sw.	9	4			10 ks			0	0		Lagorio & Sastyrea.
Kertch	30.12	765.1	30.15	765.7	56.3	13.5	62	ene.	11	5		0	4 k			0	0	light clouds	Observatory.
Kieff	29.55	750.5	30.19	766.7	55.6	13.1	46	s.	9	4			10k;ks			0	0		
Koslov	29.67	753.7	30.19	766.7	50.4	10.2	61	wsw.	7	3		0	8 ks			0	0		E. Quaas.
Libau	29.76	755.8	29.78	756.4	51.4	10.8	91	sse.			4		10			0	0		Meteorological Obs'y.
Lugan	30.06	763.4	30.26	768.6	55.6	13.1	40	ese.	9	4			0			0	0		Meteorological Obs'y
Moscow	29.63	752.5	30.11	764.8	49.1	9.5	69	wnw.	7.8	3.5		0	7 ks			0.028	0.7		Capt. Kurdakow.
Nikolaiev	30.19	766.8	30.26	768.6	57.9	14.4	44	e.	13	6		0	0			0	0		Iwanow.
Nikolaievsk-on-the-Amoor					42.4	5.8	90	calm	0	0		0	7 n						Physical Observatory.
Pekin, China	29.92	759 9	30.06	763.5	63.9	17.7	58	sw.	7.8	3.5		0	0			0	0		
Petro-Alexandrovsk	29.60	751.7	29.93	760.1	87.1	30.6	26	calm	0	0		0	0			0.067	1.7		Dr. Bergmann.
Petrozavodsk	29.65	753.1	29.85	758.2	45.0	7.2	61	sw.	16	7		8 ck	0						

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.57	751.0	30.06	763.6	55.6	13.1	61	sse.	4	2	.....	0	8 ks	.....	.....	0	0	.....	
Poti	29.89	759.3	29.93	760.1	80.1	26.7	80	nw	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.89	759.1	29.91	759.7	46.9	9.4	69	s.	13	6	.....	.....	10 n	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	27.56	699.9	29.91	759.6	78.6	25.9	38	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.40	746.8	30.04	762.9	72.1	22.3	28	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.87	758.7	30.08	764.0	68.7	20.4	44	wsw.	16	7	.....	2 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.56	750.8	30.11	764.8	56.5	13.6	52	sse.	11	5	.....	c	9 ks	.....	.....	0	0	.....	
Tashkend Laboratory	28.30	718.9	29.87	758.6	85.3	29.6	31	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.58	725.8	29.91	759.8	83.5	28.6	32	se.	9	4	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.44	696.9	29.88	759.0	62.6	17.0	64	nw.	2	1	.....	2 cs	0	.....	.....	0	0	.....	
Viatka	29.16	740.6	29.80	756.9	37.4	3.0	61	w.	9	4	.....	.....	10	.....	.....	0	0	.....	
Warsaw	29.56	750.8	29.98	761.4	58.6	14.7	84	s	7	3	.....	.....	10 n	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.99	761.7	30.28	769.2	39.4	4.1	53	ese.	7	3	.....	.....	10	.....	.....	0.016	0.4	raining.	M. O. Marks.
Scottish.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.99	761.7	30.09	764.3	77.4	25.2	69	s.	4.9	2.2	.....	0	0	.....	.....	0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.01	762.3	30.07	763.8	81.7	27.6	57	nw.	1.8	0.8	.....	2	0	w.	.....	0	0	almost clear.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.03	762.8	81.0	27.2	42	sw.	4.3	1.9	.....	.....	0	.....	.....	0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.96	710.1	30.05	763.3	88.7	31.5	35	s.	8.5	3.8	.....	1	0	.....	.....	0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.08	764.0	91.2	32.9	44	se.	2.2	1.0	.....	0	2	.....	.....	0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.32	744.8	30.09	764.3	59.0	15.0	96	s.	10.1	4.5	.....	6 k	4 k	w.	n.	0.079	2.0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.18	741.2	30.05	763.3	70.0	21.1	78	sw.	5.6	2.5	.....	.....	7	.....	.....	0.024	0.6	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762.1	30.07	763.7	74.7	23.7	88	sse.	1.1	0.5	.....	2 cs	k	nne.	.....	0.01	0.2	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.5	78.3	25.7	92	ne.	0	0	.....	0	8 ks	.....	.....	0	0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.7	87.4	30.8	37	sw.	8.6	3.9	.....	0	2	.....	sw.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.95	760.7	30.04	763.0	78.4	25.8	94	calm	0	0	.....	4 s	5 kn	e.	e.	0	0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.69	754.1	29.73	755.1	41.7	5.4	57	n.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	29.68	753.8	29.73	755.1	50.7	10.4	60	n.	.....	.....	2	.....	1	.....	.....	0	0	.....	
Hernosand	29.69	754.0	29.74	755.3	56.1	13.4	58	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	29.58	751.2	29.75	755.7	51.8	11.0	77	ene.	.....	.....	2	.....	10	.....	.....	0.059	1.5	.....	
Wisby	29.63	752.6	29.69	754.1	54.0	12.2	96	w.	.....	.....	4	.....	10	.....	.....	.....	.....	raining	
Sub-series.																			
Upsala	29.65	753.2	29.74	755.4	50.9	10.5	80	nne.	0	0	.....	.....	6	.....	.....	0.024	0.6	.....	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.72	729.5	30.10	764.5	70.7	21.5	60	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.01	762.3	64.4	18.0	71	n.	27	12.0	.....	.....	10	.....	ne.	0.433	11.0	.....	The Observatory.
Valona	.....	.....	30.03?	762.7?	73.0	22.8	.....	nw.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.7	83.3	28.5	49	w.	.....	.....	1	.....	1 ks	.....	sw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	29.97	761.2	30.05	763.3	47.5	8.6	55	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.34	745.2	29.99	761.7	41	5.0	82	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	29.95	760.7	38	3.3	67	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.31	693.7	30.16	766.1	38	3.3	73	s.	4	1.8	.....	.....	sk.	.....	.....	0	0	dense smoke	B. O. Lenoir.
Atlanta, Georgia	28.99	736.3	30.16	766.1	59.0	15.0	81	nw.	5	2.2	.....	0	fg	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	52	11.1	59	n.	6	2.7	.....	c	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	58.0	14.4	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	D. J. Young.
Baltimore, Maryland	30.11	764.8	30.16	766.1	51	10.6	59	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.07	763.8	30.09	764.3	52.5	11.4	69	nw.	10	4.5	.....	1 k	0	.....	.....	0	0	clear	G. A. Hill.
Behring Id., Behring Sea	29.74	755.4	29.76	755.9	42.0	5.6	82	sw.	11	4.9	.....	0	5 k	.....	sw	0.10	2.5	fair	Geo. Chernick.
Bennett, Fort, Dakota	28.36	720.3	29.95	760.7	39.0	3.9	82	nw.	1	0.4	.....	hz.	hz.	.....	.....	0	0	light haze.	A. Pritchard.
Benton, Fort, Montana	27.40	695.9	30.24	768.1	41	5.0	75	calm	0	0	.....	.....	sk.	.....	.....	0	0	dense smoke	Thomas Morgan.
Bismarck, Dakota	28.07	713.0	29.87	758.7	41	5.0	76	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.97	761.2	30.00	762.0	54	12.2	36	nw.	15	6.7	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.26	692.4	30.03	762.7	39.3	4.1	.....	n.	1	0.4	.....	0	3 s	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.80	756.9	29.95	760.7	46.0	7.8	60	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.08	764.0	30.14	765.5	67.0	19.4	90	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	E. C. Imlay.
Buffalo, New York	29.46	748.3	30.15	765.8	43.0	6.1	78	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	Wm. Finn.
Buford, Fort, Dakota	29.35	745.5	30.08	764.0	43.7	6.5	78	sw.	15	6.7	.....	1 k	0	sw.	.....	0	0	clear	A. Schneider.
Cairo, Illinois	27.98	710.7	29.96	761.0	42	5.6	76	w.	8	3.6	.....	0	fg	.....	.....	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.84	757.9	30.24	768.1	52.6	11.4	82	ne.	4	1.8	.....	0	0	.....	.....	0	0	dense smoke	O. D. Stewart.
Cape Henry, Virginia	29.78	756.4	29.98	761.5	54.4	12.4	97	s.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.10	764.5	30.12	765.0	64.0	17.8	68	n.	20	8.9	.....	0	3 k	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino, California	30.08	764.0	30.11	764.8	55.0	12.8	65	nw.	18	8.0	.....	0	2 k	.....	nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.24	742.7	29.92	760.0	53	11.7	100	nw.	.....	.....	2	.....	fg.	.....	nw.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.10	764.5	30.12	765.0	67.5	19.7	84	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	30.07	763.8	30.12	765.0	64.0	17.8	93	w.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.10	764.5	57.0	13.9	86	nw.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	29.36	745.7	30.17	766.3	54.0	12.2	86	w.	4	1.8	.....	0	fg.	.....	.....	0	0	dense haze.	E. McGovern.
Chicago, Illinois	24.12	612.6	29.98	761.5	42.6	5.9	28	nw.	8	3.6	.....	.....	hz.	.....	.....	0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.46	748.3	30.15	765.8	43.0	6.1	78	w.	4	1.8	.....	0	0	.....	.....	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	30.10	764.5	30.12	765.0	56	13.3	62	ne.	14	6.3	.....	0	5 k	.....	w.	0	0	clear	L. Dunne.
Cleveland, Ohio	29.57	751.1	30.22	767.6	47.5	8.6	82	nw.	3	1.3	.....	0	0	.....	.....	0.05	1.3	clear	J. B. Newlin.
Coleman City, Texas	29.42	747.3	30.14	765.5	47.7	8.7	63	w.	4	1.8	.....	0	6 k	.....	w.	0.03	0.8	fair	T. J. Kenan.
Columbus, Ohio	29.31	744.5	30.15	765.8	42	5.6	83	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.12	765.0	54.8	12.7	80	sw.	5	2.2	.....	10 cs	0	w.	.....	0	0	cloudy	J. McGlone.
Custer, Fort, M. T.	26.92	683.8	30.04	763.0	39	3.9	65	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.49	749.0	30.14	765.5	44	6.7	93	n.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	R. R. Martin.
Davis, Fort, Texas	25.34	643.6	30.04	763.0	51	10.6	64	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.35	720.1	30.10	764.5	43	6.1	57	ne.	6	2.7	.....	0	sk.	.....	.....	0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.40	645.1	29.96	761.0	42	5.6	76	s.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	56	13.3	74	nw.	21	9.4	.....	0	0	.....	.....	0	0	clear	T. S. Townsend.
Denver, Colorado	24.83	630.7	29.94	760.5	42.4	5.8	78	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.25	742.9	30.14	765.5	39	3.9	82	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.13	765.3	41.0	5.0	82	w.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.40	695.9	29.95	760.7	46	7.8	76	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.43	747.5	30.13	765.3	39.8	4.3	86	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.12	739.6	29.86	758.4	49	9.4	71	w.	12	5.4	.....	5 cs	2 s	w.	w.	0	0	fair	N. B. Conger.
Eastport, Maine	29.67	753.6	29.74	755.4	47.0	8.3	59	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	30.00	762.0	56	13.3	60	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.02	762.5	52.0	11.1	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.41	747.0	30.12	765.0	46	7.8	93	s.	4	1.8	.....	3 cs	4 s	w.	sw.	0.03	0.8	clearing	C. A. Shaw.
Escanaba, Michigan	29.28	743.7	29.94	760.5	42.0	5.6	78	w.	12	5.4	.....	2 ck	4 s	w.	w.	0	0	fair	George Heathcote.
Galveston, Texas	30.12	765.0	30.16	766.1	70	21.1	70	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	E. O'C. Machnerney
Grand Haven, Michigan	29.44	747.8	30.10	764.5	52.0	11.1	72	w.	13	5.8	.....	0	5 k	.....	w.	0	0	fair	Wm. H. Fallon.
Grant, Fort, Arizona	25.29	642.4	29.89	759.2	55.1	12.8	37	e.	6	2.7	.....	2 cs	0	sw.	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	67.5	19.7	70	n.	8	3.6	.....	0	hz.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.94	658.9	30.11	764.8	46	7.8	63	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Velocity.		Force.	Clouds. Amount and kind.		Direction.		Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
												Upper.	Lower.	Upper.	Lower.				
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.56	725.4	29.94	760.5	39.8	4.3	85	s.	8	3.6		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.39	746.5	30.17	766.3	41.4	5.2	92	calm	0	0			fg.			0	0	dense fog	C. F. R. Wappenhans.
Indianola, Texas	30.11	764.8	30.14	765.5	71.1	21.7	84	s.	4	1.8		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30 08	764.0	30.12	765.0	64.0	17.8	84	s.	7	3.1		0	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.50	749.3	30.15	765 8	42.5	5.8	96	calm	0	0			fg.			0	0	dense fog	F. Z. Gosewisch.
Key West, Florida	30.03	762.7	30.05	763.3	81	27.2	82	calm	0	0		5 cs	0	nw.		0.34	8.6	fair	A. W. Browne.
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	63.0	17.2	84	ne.	8	3.6		5 k	0	ne.		0	0	fair	H. Mc P. Baldwin.
Knoxville, Tennessee	29.14	740.1	30.16	766.1	52.3	11.3	94	calm	0	0		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.07	763.8	45	7.2	83	s.	8	3.6			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.27	743.4	30.15	765.8	45	7.2	93	calm	0	0		0	fg.			0	0	clear	T. S. Outram.
Lewiston, Idaho					37.0	2.8	89	calm	0	0			sk.			0	0	dense smoke.	C. E. Butler.
Little Rock, Arkansas	29.84	757.9	30.15	765.8	56	13.3	86	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	66	18.9	78	ne.	2	0.9		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.63	752.6	30.18	766.6	47	8.3	86	n.	5	2.2		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.45	748.0	30.13	765.3	52.8	11.6	84	sw.	1	0.4		0	fg.			0	0	clear	Louis Duane.
Mackinaw City, Michigan	29.28	743.7	29.94	760.5	49.0	9.4	86	sw.	11	4.9		3 c	3 s			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.10	764.5	30.11	764.8	64.0	17.8	84	n.	12	5.4		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25 70	652.8	30.10	764.5	38	3.3	36	w.	20	8.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.16	740.7	29.88	758.9	48.0	8.9	63	w.	18	8.0		9 cs	0	w.		0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.84	757.9	30.18	766.6	57	13.9	74	calm	0	0		0	fg.			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.37	746.0	30.11	764.8	44	6.7	76	sw.	9	4.0		0	0			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.12	765.0	30.16	766.1	60	15.6	87	n.	3	1.3		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.94	760.5	30.16	766.1	60	15.6	81	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.84	732.5	29.83	757.7	43	6.1	89	sw.	12	5.4			10 s		s.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.55	598.2	29.70	754.4	16.0	— 8.9	100	nw.	66	29.6			fg.		nw.	0.33	8.4	dense fog	S. W. Beall.
Nashville, Tennessee	29.62	752.3	30.19	766.8	53.5	11.9	90	n.	3	1.3		0	fg.			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.03	762.7	44	6.7	76	nw.	5	2.2		0	3 k		nw.	0	0	clear	J. H. Sherman.
New London, Connecticut	30.02	762.5	30.07	763.8	50	10.0	59	w.	4	1.8		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.13	765.3	69.0	20.6	66	se.	3	1.3		0	hz.			0	0	clear	M. Herman.
New York, New York	29.90	759.4	30.07	763.8	48	8.9	63	w.	5	2.2		0	0			0	0	clear	H. J. Peurod.
Norfolk, Virginia	30.07	763.8	30.10	764.5	63.0	17.2	78	ne.	5	2.2		0	6s;fg		ne.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.17	690.1	30.05	763.3	42.6	5.9	65	w.	14	6.3		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.02	762.5	30.06	763.5	51.0	10.6	93	calm	0	0			fg.			0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.14	765 5	45.0	7.2	89	calm	0	0		0	fg.			0	0	clear	A. Pollak
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.72	754.9	30.04	763.0	47.5	8.6	63	sw.	6	2.7		0	9 k		nw.	0	0	cloudy	J. G. Linsley
Palestine, Texas	29.63	752.6	30.18	766.6	58.0	14.4	70	e.	6	2.7		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	63.3	17.4	75	nw.	4	1.8		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	50.5	10.3	78	nw.	0	2.7		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	30.03	762.7	26	— 3.3	84	nw	14	6.3		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.36	745.7	30.15	765.8	48.0	8.9	71	s.	4	1.8		0	0			0	0	clear	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.41	747.0	30.08	764.0	38.0	3.3	89	w.	4	1.8		0	0			0.04	1.0	clear	M. H. Perry
Portland, Maine	29.84	757.9	29.89	759.2	48.0	8.9	56	nw.	7	3.1		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.94	760.5	30.01	762.2	51.0	10.6	100	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.86	631.4	29.96	761.0	44	6.7	51	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.92	760.0	29.95	760.7	49	9.4	56	nw.	12	5.4		0	1 k		nw.	0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.57	751.1	29.92	760.0	62	16.7	56	nw.	3	1.3			sk.			0	0	dense smoke	J. R. Williams.
Rochester, New York																			E. W. McGauran.
Roseburg, Oregon	29.45	748.0	30.00	762.0	49.8	9.9	93	s	2	0.9			fg.			0	0	dense fog	J. J. Naury.
Sacramento, California	29.85	758.2	29.92	760.0	62.0	16.7	72	se	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.60	751 8	30.21	767.3	53.0	11.7	72	s	4	1.8		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.34	745.2	29.37	746.0	45.	7.2	93	e.	4	1.8			10 s			0	0	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.14	740.1	29.99	761.7	44.5	6.9	87	sw.	4	1.8		5 ck	0	w.		0	0	fair	P. F Lyons.
St. Vincent, Minnesota	28.87	733.3	29.74	755.4	40	4.4	82	w.	3	1.3			10s;sk			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.70	652.8	29.95	760.7	61	16.1	42	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	60.0	15.6	87	nw.	1	0.4			fg.			0	0	dense fog	F. R. Day.
Sanford, Florida	30.02	762.5	30.07	763.8	68	20.0	93	nw.	6	2.7		3 k	0	nw.		0.19	4.8	clear	J. B. Marbury.
Sandusky, Ohio	29.49	749.0	30.16	766.1	47	8.3	86	w.	8	3.6		0	0			inap.	inap.	clear	B. F. Hough.
Sandy Hook, New Jersey	30.05	763.3	30.08	764.0	51.0	10.6	66	nw.	24	10.7		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.90	759.4	29.97	761.2	55	12.8	93	w.	6	2.7			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	64.5	18.1	73	nw.	4	1.8		0	fg.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	25.49	672.8	30.10	764 5	37	2.8	72	w.	3	1.3		0	sk.			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.87	758.7	30.11	764.8	57.5	14.2	85	calm	0	0		0	3 s			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	733.5	30.10	764.5	54	12.2	74	calm	0	0		0	0			0	0	clear	W. M. Mattingly
Sitka, Alaska	29.94	760.5	30.00	762.0	49	9.4	86	w.	3	1.3			10 s		w.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.67	753.6	30.14	765.5	52.3	11.3	93	e.	2	0.9		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	30.07	763.8	30.11	764.8	62.5	16.9	74	nw.	6	2.7		1 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.08	713.2	30.12	765.0	38	3.3	82	calm	0	0			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.52	749.8	30.19	766.8	44.5	6.9	76	s.	6	2.7		0	0			0	0	clear	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.13	689.1	30.09	764.3	52	11.1	80	sw.	3	1.3		6 ck	0			0	0	fair	Louis Dorman.
Thomas, Camp, Arizona					47	8.3	40	s.			1	5 ck	0			0	0	fair	R. C. Lord.
Toledo, Ohio	29.45	748.0	30.13	765.3	43	6.1	74	nw.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskha, Alaska	29.51	749.5	29.54	750.3	36	2.2	79	sw.	1	0.4		0	0			0.09	2.3	clear	Samuel Applegate.
Verde, Fort, Arizona					51	10.6	32	n.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.92	760.0	30.17	766.3	60.0	15.6	70	e.	5	2.2		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.06	763.5	30.17	766 3	50.4	10.2	73	nw.	1	0.4		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.10	662.9	29.92	760.0	39.5	4.2	92	w.	5	2.2		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.																			B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	64.0	17.8	84	nw.	1	0.4		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.73	729 7	30.02	762.5	46.2	7.9	78	w.	12	5.4		3 c	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.72	754.9	29.86	758.4	69.1	20.6	93	n.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					76	24.4		n.			2		9 n		n.	0.50	12.7	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.05	560.2			55.8	13.2	50	calm	0	0			10 s		w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	78.3	25.7	91	calm	0	0		10 c	0	sw.		0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	80	26.7	82	e.			2	5 ck	0	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.39	746.5	29.95	760.7	75	23.9	89	s.			1		10 ks		calm	1.35	34.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	90	ne.			1		8 ks		se.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A	29.88	758.9	29.94	760.5	31.5	— 0.3	95	nw.	15	6.7		0	1 s		nw.	0	0		Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 15′, E. 22° 49′	29.95	760.7	66	18.9	89	ne			1		10	e.				sm'h		raining.
H. M. S. Coquette, N. 36° 48′, E. 10° 20′	30.01	762.2	78	25.6		n.			4		5	nnw				sm'h		showery.
H. M. Dockyard, Bermuda, Atlantic	30.03	762.7	80	26.7	82	ssw.			3		3	ssw.						d. clouds.
H. P. M. S. Douro, St. Thomas, W.I	29.97	761.2	81.0	27.2	81	sw.			4		10					4	sw.	overcast.
H. M. S. Himalaya, N. 37° 30′, W. 9° 59′	30.09	764.3	74	23.3	76	nne.			4		1	nne.				2	nne.	d. clouds.
H. M. S. Iris, off Port Said, Egypt	29.97	761.2	80	26.7	78	wsw.			1		5							blue sky.
H. M. S. Tenedos, Green Bay, Newfoundland			59?	15.0?	65	sw.			6		4	nw.						squally.
H. M. S. Tyne, N. 16° 35′, W. 25° 00′	30.03	762.7	78	25.6	82	ene.			4		0					3	ene.	misty.
U. S. Navy Yard, Portsmouth, N.H.*	29.88	758.9	47	8.3	55	nw.	14	6.3			0			0	0			clear.
U. S. S. Alliance, St. John, N.B	29.69	754.1	50	10.0	72	wnw.			3		2		calm	0	0	mod		clear.
U. S. S. Galena, N. 31° 40′, W. 70° 54′	30.05	763.3	79	26.1	100	nne.			1		5		n.			mod.	ne	fair.
U. S. S. Jamestown, N. 23° 24′, W. 27° 50′	30.15	765.8	77	25.0	91	ene.			4		2		se.			sm'h	e.	fair.
U. S. S. Kearsarge, Lisbon, Portugal	30.14	765.5	72	22.2	80	se.			1		2		calm					misty.
U. S. S. Lancaster, Cadiz, Spain	30.06	763.5	70	21.1	80	s.			3		0					sm'h		clear.
U. S. S. Powhatan, St. Pierre, N.F	29.44	747.8	56	13.3	94	sw.			4–5		10		sw.					threatening.
U. S. S. Quinnebaug, Leghorn, Italy	30.20?	767.1?	72	22.2	71	ne.			2		0					sm'h		clear.
U. S. S. Saratoga, Gardiners Bay, L. I	30.00	762.0	51	10.6	72	nnw.			3–4		1		nnw.	0	0	sm'h	nnw.	clear.
U. S. S. Swatara, Georgetown, P.E.I	29.52	749.8	54	12.2	67	nw.			6		10		nw.	light	light	sm'h		threatening.
U. S. S. Vandalia, 42° 07′, W. 67° 32′	29.90	759.4	53	11.7	79	nw.			5		5		w.					fair
U. S. S. Yantic, N. 40° 45′, W. 65° 27′	29.94	760.5	63	17.2	78	nw.			4–6		8					r'gh	nw.	threatening.
S. S. British Crown, N. 48° 06′. W. 38° 27′ †	30.06	763.5	67	19.4		s.			5		7		s.	0	0	mod.	s.	
S. S. British Prince, N. 47° 58′ W. 48° 34′*†	29.51	749.5	52	11.1		s.			6		7		w.	driz	driz.	r'gh	con.	cloudy.
S. S. Ohio, Philadelphia, Pa†	30.11	764.8	49	9.4	85	nw.			2		0			0	0			cloudy?
S. S. Circassian, N. 54° 36′ W. 44° 10′	29.23	742.4	51	10.6	93	s.			8		10		ssw.			6-8	ssw.	overcast.
S. S. Grecian, N. 53° 22′ W. 49° 38′	28.97	735.8	50	10.0	93	ssw.			7		10		ssw.	5 h'r	5 h'r	high	sw.	cloudy.
S. S. Nova Scotian, off Ferryland Head, N.F	29.53	750.0	56	13.3		wsw.			5		5		w.			sm'h		squally.
S. S. Polynesian, Montreal, Canada	29.90	759.4	46	7.8		w.			3		2		w.	6 h'r	6 h'r			clear.
S. S. Prussian, Glasgow, Scotland			58	14.4		wnw.			6		9		nw.	3 h'r	3 h'r			cloudy.
S. S. Scandinavian, N. 48° 51′, W. 40° 32′	30.15?	765.8?	61	16.1		s.			6		10		s.	4 h'r	4 h'r	short	s.	raining.
S. S. Jason, N. 49° 49′ W. 16° 54′†	30.14	765.5	59.0	15.0		nw.			5		6 k					5	wnw.	gloomy.
S. S. Alvo, Port Limon, Porto Rico, W.I *	29.88	758.9	79	26.1		var.			2		7		calm	7 h'r	7 h'r	long	ene.	rainy.
S. S. Avilla, Kingston, Jamaica, W.I *†	30.06	763.5	80	26.7		e.			1		4		e.	0	0	sm'h		
S. S. Assyria, N. 40° 05′. W. 32° 30′	30.35	770.9	73	22.8	54	e.			2		8		w.	0	0	3	nw.	fine.
S. S. Devonia, N. 44° 50′. W. 50° 20′ *†	29.72	754.9	56	13.3		ssw.			5		10					short	ssw.	rainy.
S. S. Dorian, N. 38° 47′, E. 10° 10′	29.99	761.7	72	22.2		nne.			5		2		n.	2 h'r	2 h'r	sm'h		clear
S. S. Furnessia, Liverpool, Eng †	29.49	749.0	66	18.9	89	sw.			6		6		sw.	5 h'r	5 h'r			fair.
S. S. Gallia, N. 49° 03′. W. 30° 36′	30.11	764.8	57	13.9	94	nnw.			6		8		nw.	2 h'r	2 h'r	high	nw.	squally.
S. S. Pavonia, N. 49° 25′, W. 27° 11′*	30.09	764.3	61	16.1	88	wnw.			5		8		nw.	0	0	long	wnw.	fair.
S. S. Samaria, off Ormes Head, Wales*	29.38	746.2	57	13.9		sw.			8		5?		sw.	0	0	r'gh	sw.	cloudy?
S. S. Canada, N. 49° 25′, W. 30° 53′ *	30.04	763.0	60.8	16		w.			5		k		w.	0	0	r'gh	w.	clear.
S. S. Wisconsin, N. 50° 36′, W. 29° 19′ *	30.08	764.0	59	15.0		w.			6		6		w.	4 h'r	4 h'r	high	nnw.	cloudy.
S. S. Wyoming, N. 40° 39′ W. 69° 03′	29.97	761.2	57	13.9		nnw.			6		0			0	0	mod.	wnw.	clear.
S. S. Bohemia, N. 49° 28′, W. 8° 34′†	29.83	757.7				w.			4–7		6		w.	3 h'r	3 h'r	long	w.	fine.
S. S. Gellert, Hamburg, Germany			69	20.6	56	wnw.			5		10		w.	2 h'r	2 h'r			covered.
S. S. Rugia, New York, N. Y	30.07	763.8																
S. S. Silesia, N. 49° 54′, W. 4° 09′	29.87	758.7	60.2	15.7		wsw.			6		8		wsw.	0	0	h'vy	w.	stormy.
S. S. Westphalia, N. 49° 50′, W. 34° 52′	29.97	761.2	56	13.3	?	wsw.			4		10		w.			r'gh	w	misty.
S. S. Rhaetia, N. 44° 52′, W. 50° 14′*	29.65	753.0	56	13.3		wsw.			4		10		w.	9 h'r	9 h'r	h'vy	wsw.	sprinkling.
S. S. City of Paris, N. 49° 13′ W. 38° 09′*	30.07	763.8				sw.			6		10		ssw.	0	0	mod	cross	overcast.
S. S. Nessmore, Chesapeake Bay*	30.13	765.3	65	18.3	100	w.			6		3		w.	0	0	r'gh	w.	fair.
S. S. Archimedes, N. 49° 12′. W. 17° 55′	29.76	755.9				w.			5–6		4		w.	1 h'r	1 h'r	high	w.	light show'rs
S. S. Hevelius, N. 45° 47′, W. 9° 00′	30.01	762.2	66	18.9		nnw.			5		10		nnw.	0	0	long	wsw.	cloudy.
S. S. Sirius, N. 17° 42′. W 24° 56′	30.05	763.3				ne.			2		1		ne.	0	0	mod.	ne.	clear.
S. S. Chalmette, N. 26° 14′, W. 80° 03′†	30.11	764.8	80	26.7		s.			3		4			2 h'r	2 h'r	sm'h		clear.
S. S. Lone Star, N. 27° 33′, W. 87° 05′ *†	30.04	763.0	79	26.1		ne.			4		3		ne.	0	0	sm'h		clear.
S. S. Alleghany, Baltimore, Md †	30.15	765.8	50	10.0		nnw.			2		0			0	0			fine.
S. S. Archimede, N. 37° 06′, E. 1° 10′			80	26.7		w.			2		1		w.	0	0	sm'h	w.	clear.
S. S. City of Merida, Vera Cruz, Mexico *†	30.04	763.0	78	25.6		nw.			1		10		nw.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. City of Washington, N. 21° 58′, W. 87° 59′*†	30.00	762.0	80	26.7		e.			4		2		ene.	0	0	sm'h		fine.
S. S. Canada, N. 49° 43′, W. 16° 50′			66	18.9		w.			7		5		calm	5 h'r	5 h'r	h'vy	w.	fair.
S. S. Denmark, New York, N. Y†	30.04	763.0	48	8.9		wnw.			5		10?			0	0			clear.
S. S. Egypt, N. 42° 54′, W. 48° 21′	30.04	763.0	59	15.0		s.			5		8		sw.	0	0	mod.	sw.	fair.
S. S. England, off Salters, Ireland	29.52	749.8				wsw.			9		5		wsw.	6 h'r	6 h'r	h'vy	w.	hazy.
S. S. Greece, N. 40° 33′, W. 71° 50′			52	11.1	93	nnw.			6		5		nnw.	0	0	mod.	var.	fair.
S. S. Helvetia, N. 45° 40′, W. 46° 20′	29.74	755.4	59	15.0	100	wsw.			6		8		wsw.	8 h'r	8 h'r	r'gh	sw.	
S. S. Fulda, N. 45° 16′, W. 53° 13′	29.59	751.6	59.0	15.0	89	sw.			5–6		8		sw.	4 h'r	4 h'r	r'gh	sw.	cloudy.
S. S. Hohenstaufen, N. 0° 34′, W. 31° 00′	30.01	762.2	79.7	26.5	92	se.			4		5		se.	0	0	mod.	se.	fair.
S. S. Oder, N. 44° 23′, W. 49° 17′	29.77	756.1	54.5	12.5		ssw.			6		10		ssw.	7 h'r	7 h'r	r'gh	ssw.	raining.
S. S. Ohio, N. 49° 32′, W. 7° 18′	29.85	758.2				wsw.			6		10		wsw.	7 h'r	7 h'r	cross	wsw.	cloudy.
S. S. Rhein, N. 42° 08′ W. 54° 16′	29.78	756.4	67.1	19.5		wsw.			3		4		w.	2 h'r	2 h'r	cross	wsw.	fair.
S. S. Salier, St. Agnes, Eng*	29.74	755.4	61.7	16.5	50	w.			6		1		w.	4 h'r	4 h'r	high	wnw.	clear.
S. S. Strassburg, N. 49° 38′, W. 30° 13′	30.08	764.0	63.5	17.5	61	w.			5		8		w	3 h'r	3 h'r	5	nw.	cloudy.
S. S. Werra, N. 50° 11′, W. 15° 05′	29.71	754.6	60.8	16.0		w.			4–5		6		w.	1 h'r	1 h'r	mod.	wnw.	fair.
S. S. Weser, N. 24° 42′ W. 83° 59′	30.08	764.0	80.6	27.0		wnw.			1		5		wnw.	½ h'r	½ h'r	sm'h	nne.	fair.
S. S. City of Augusta, New York, N.Y †	30.04	763.0				nnw.			4		2		nw.	0	0			fine.
S. S. Muriel, St. Thomas, W.I	29.98	761.5	83	28.3		ne.			2		0			0	0	sm'h		clear.
S. S. Orinoco, Bermuda, W.I *†	30.04	763.0	81	27.2		sw.			3		3		sw.	0	0			clear.
S. S. Belgenland, N. 49° 55′, W. 21° 16′ †	29.82	757.4	54	12.2	93	w.			7		8		w.	2 h'r	2 h'r	long	w.	cloudy.
S. S. Pennland, N. 40° 30′, W. 72° —			55	12.8	81	nw.			4		1		nw.	0	0	h'vy	w.	gale.
S. S. Vaderland, Antwerp, Belgium			61	16.1		s.			6		9		sw.	1 h'r	1 h'r			gale.
S. S. Waesland, N. 50° 10′, W. 5° 23′	29.74	755.4	60	15.6		wsw.			9		8		wsw.	3 h'r	3 h'r	high	sw.	cloudy.
S. S. P. Caland, Jersey City, N.J	30.07	763.8	54.5	12.5	82	nnw.			2									fair.
S. S. W. A. Scholten, N. 49° 57′, W. 15° 24′			56.3	13.5	94	w.			6		6		w.	8 h'r	8 h'r	7	wsw.	hazy.
S. S. Caracas, N. 18° 36′, W 67° 48′ *†	30.10	764.5	84	28.9	77	e.			3		0			0	0	mod.	ne.	clear.
S. S. Valencia, N. 27° 28′, W. 69° 57′†	30.17	766.3	83	28.3	83	calm			0		1		se.	0	0	light	se.	clear.
S. S. State of Nevada, Glasgow, Scotland			60	15.6		se			4		10		s.	6 h'r	6 h'r			cloudy.
S. S. State of Nebraska, N. 53° 03′. W. 30° 17′*†	29.88	758.9	52	11.1		wnw.			6		8		w.	0	0	mod.	nw.	cloudy.
S. S. Thingvalla, N. 56° 38′, W. 28° 17′†	29.76	755.9	51.8	11.0		wnw.			4		8		wnw.	2 h'r	2 h'r	h'vy	wnw.	cloudy.
S. S. Romano, N. 43° 20′, W. 42° 11′			70	21.1		s.			6		5		ssw.	0	0	r'gh	s.	fair.
S. S. Salerno, N. 49° 08′, W. 14° 31′ *†	29.81	757.2	64	17.8		w			5		5		w.	0	0	rg'h	w.	fair
S. S. Lake Huron, N. 55° 59′, W. 29° 24′	29.74	755.4	48	8.9		wnw.			4		5		nw.	0	0	mod.	nnw.	fair.
S. S. Lake Manitoba, N. 53° 30′ W. 49° 06′	30.01	762.2	49	9.4		ssw.			7		8		sw.	0	0	h'vy	sw.	cloudy.
S. S. Daniel Steinmann, Antwerp, Belgium*†	29.76	755.9	64	17.8		ssw.			6		10			1 h'r	1 h'r			threatening.
S. S. Saxon, Boston, Mass †	29.94	760.5				wnw.			2		1			0	0			fine.
S. S. Britannic, N. 45° 00′, W. 43° 01′ †	29.99	761.7	60	15.6		wsw.			3		10		sw.	0	0	long	sw.	d. clouds.
S. S. Celtic, N. 47° 02′, W. 46° 56′ †	29.66	753.4	58	14.4	88	sw.			6		10		sw.	8 h'r	8 h'r	hv'y	w.	raining.
S. S. Algiers, N. 28° 13′ W. 79° 36′ †	30.15	765.8				n.			5								ssw.	fair.
S. S. City of Alexandria, N. 39° 45′ W. 73° 52′ *†	30.02	762.5	53	11.7		nnw.			5								nnw.	blue sky.
Bk. Arda, N. 48° 03′, W. 14° 53′†	29.76	755.9				wnw.			5		5?		w.	4 h'r	4 h'r	hv'y	w.	overcast.?
Bg. Alpheus Marshall, N. 27° 54′, W. 26° 17′*†	30.15	765.8	76	24.4	100	ese.			1		10		ese.	1 h'r	1 h'r	light	wnw.	light rain.
Bk. Ariadne, N. 42° 38′, W. 59° 42′	29.80	756.9	65	18.3	73	sw.			5		3		sw.	6 h'r	6 h'r	cross	sw.	clearing
Schr. Arthur Burton, White Head, Maine †	29.69	754.1				nw.			2		1		nw.	0	0	r'gh	sw.	clear.
Schr. Abbie H. Gheen, Gloucester, Mass.†	29.97	761.2	62	16.7		nw.			2									clear.
S. S. Antonio Lopez, Santander, Spain	30.08	764.0	68.5	20.3	90	w.			5		4			0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Adelaide, N. 9° 16′, W. 34° 33′*†	30.04	763.0				e.			5		6		se.	½ h'r	½ h'r	mod.	ese.	fair.
Bg. Belle of the Bay, N. 26° 19′, W. 85° 34′†	30.06	763.5				nne.			4		2		e.	o	o	short	nnw	clear.
S. S. Cannonbury, N. 30° 10′, W. 70° 22′ *†	30.11	764.8				wnw.			2		2		nw.	o	o	light	se.	clear.
Bk. Ceylon, N. 28° 27′. W. 41° 05′†	30.03	762.7	80	26.7	82	ne.			3		9		ene.	3 h'r	3 h'r	long	nne.	squally.
Schr. C. R. Flint, N. 23° 00′, W. 55° 07′†	30.00	762.0	85	29.4		ne.			1		4		ene.	o	o	long	ne.	fair.
Bk. Don Justo, N. 45° 26′, W. 52° 17′						sw.			1		8		sw.	4 h'r	4 h'r	hv'y	ssw.	clearing.
Bk. Childwall, N. 10° 09′, W. 25° 10′			76	24.4	100	se.			3		9		se.	o	o	sm'h		
Bkt. David A. Preston, N. 44° 05′, W. 67° 45′						nw.			6		0			o	o	h'vy	w.	
Bk. Diamant, N. 40° 48′, W. 51° 22′	29.93	760.2	77.4	25.2	88	sw.			6		9			o	o	6	sw.	covered.
S. Dynomine, N. 42° 05′, W. 13° 15′	30.13	765.3	64	17.8	89	wnw.			3		6			light	light	high	w.	d. clouds.
S. David Stewart, N. 29° 37′, W. 67° 24′†	30.10	764.5	90?	32.2?		var.			1		3		se	o	o	long	ene.	clear.
S. E. J. Spicer, Antwerp, Belgium	29.77	756.1	64	17.8	94	sw.			6		10		sw.	rain	rain			misty.
Schr. Edith R. Seward, N. 32° 36′, W. 78° 20′†	30.14	765.5	79	26.1		ne.			2		3		ene.	o	o	mod.	e.	clear.
Bk. E. D. Bigelow, Galveston, Texas†	30.14	765.5	76	24.4										o	o			fine.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	29.94	760.5	49	9.4		nw.			4		0			o	o	sm'h		clear.
S. Gatherer, N. 25° —, W. 38° —'*	30.06	763.5	80	26.7	87	var.			3		8		var.	1 h'r	1 h'r	chop	wsw.	cloudy.
Bk. Galeon, N. 27° 06′, W. 21° 13′†	30.15	765.8	76	24.4		ne.			3		2		ne.	o	o		nw.	blue sky.
Bk. Grey Eagle, N. 8° 46′, W. 32° 24′						ene.			1		10		sw.	½ h'r	½ h'r	short	ssw.	cloudy.
S. Hedwig, N. 26° 01′. W. 23° 45′	30.20	767.0	79.7	26.5	78	ene.			3		2		nne.	o	o	2–3	var.	fine.
Bk. Johanne, N. 45° 15′, W. 50° 50′*†	29.70	754.4	58	14.4		sw.			3		8		sw.	o	o	mod.	sw.	hazy.
Schr. John L. Thomas, N. 36° 36′, W. 75° 30′*†	30.07	763.8	75	23.9	77	nne.			2		4		nnw.	o	o	light	n.	fair.
Schr. Jennie N. Huddell, N. 36° 25′, W. 75° 20′†	30.14	765.5	68	20.0	79	ne.			4		0			o	o	short	ne.	clear.
Bk. John H. Pearson, N. 39° 53′, E. 0° 58′						ssw.			2							sm'h		clear.
Schr. Jas Slater, N. 11° 30′, W. 52° 55′†	30.03	762.7				n.			3		2		e.	½ h'r	½ h'r	light	n.	squally.
Bg. Josefa, N. 46° 15′, W. 42° 15′†	29.94	760.5				sw.			6		10		w.	2 h'r	2 h'r	r'gh	nw.	cloudy.
Bkt. Kryolith, N. 46° 20′, W. 53° 00′*†	29.58	751.3				wsw.			6		2		ssw.	rain	rain	h'vy	var.	clear.
Bk. Lady Hincks, N. 23° 13′, W. 40° 16′ *†	30.05	763.3							5					rain	rain		nw.	fine.
Bg. L. & W. Armstrong, N. 28° 50′, W. 67° 54′ *†	30.08	764.0				calm			0		0			o	o	mod.	ne.	fine.
S. S. Madrid, Taganrog, Russia†	30.16	766.1	54	12.2	67	ene.			4		0			o	o			clear.
Bk. Matilda C. Smith, N. 38° 18′ W. 71° 56′ *†	30.13	765.3				nw.			4		2		nw.	o	o	mod.	s.	fine.
Bk. Orpheus, N. 39° 51′, W. 61° 10′			73	22.8		nnw.			2	2 ck	0	nnw.		o	o	sm'h		fair.
Schr. Rollin Sanford, N. 28° 42′, W. 83° 34′ †	30.09	764.3				ne.			6		0			o	o		sw.	clear.
Bk. Rosalie, N. 43° 29′, W. 13° 02′*†	30.06	763.5				w.			4		3		wnw.	3 h'r	3 h'r	mod.	w.	clear.
Schr. S. B. Hubbard, N. 32° 20′, W. 78° 31′†	30.18	766.6	73	22.8		ne.			2				ne.	o	o		ne	fine.
Bk. Saga, N. 57° 18′, E. 17° 35′			58	14.4		var.			6		10		ssw.	3 h'r	3 h'r	cross	s.	cloudy.
S. Salisbury, N. 40° 00′, W. 02° 09′	29.82	757.3	70.5	21.4	81	wnw.			5–6		5		wnw.	o	o	cross	wnw.	fair.
Bgt. Sunlight, N. 26° 08′, W. 69° 34′ *†	30.10	764.5				ne.			3		3		nne.	o	o	low.	ne.	clear.
Bk. Samuel B. Hale, N. 35° 41′, W. 58° 58′*†	30.20?	767.1?				ssw.			5				ssw.	o	o	short	var.	clear.
Bk. Sunbeam, N. 38° 14′, W. 71° 59′†	30.06	763.5	63	17.2	83	n.			6		3		n.	o	o	mod.	nw.	fair.
Bk. Scud, N. 33° 04′, W. 63° 08′ *†	30.10	764.5	83	28.3		wsw.			6		2		wsw.	o	o	sm'h		clear.
Bk. St. Lawrence, N. 25° 00′, W. 58° 25′ *†	30.00	762.0				ene.			1				ese.	o	o	h'vy	ne.	d. clouds.
Bk. Tuck Sing, N. 38° 30′, W. 73° 26′						nnw.			4		2		w.	o	o	sm'h		fine.
S. S. Tower Hill, N. 49° 18′, W. 25° 09′*†	30.05	763.3				wnw.			6–7		4		nw.			high	nnw.	fair.
Schr. Viola Reppard, Brunswick, Ga	30.09	764.3	74	23.3		n.			2		0			o	o			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 13° 07′, W. 38° 33′	30.04	763.0	77	25.0	86	ese.			3		7	ese.				2	ese.	d. clouds.
H. M. S. Opal, St. Helena, Africa	30.16	766.1	71	21.7	85	ese.			2		5	ese.				5	ese.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.89	759.2	57	13.9	94	se.			2		10							misty.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.93	760.2	77.9	25.5	81	ssw.			3		9	ssw.		1 h'r	1 h'r	2		gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay*.	29.88	758.9	57	13.9	100	se.	10	4.5			10		se.	o	o	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	29.88	758.9	57	13.9	91	ese.			1–5		10		ne.			sm'h		cloudy.
S. S. Teneiro, S. 5° 30′, W. 31° 08′	30.07	763.8	78.1	25.6	78	se.			5		5 k			o	o	3	se.	d. clouds.
Bk. Aureola, S. 7° 00′, W. 33° 15′ †	29.98	761.5	93	33.9		ese.			5		2		ese.	o	o	mod.	se.	clear.
Bk. E. L. Pettingill, S. 26° 33′, W. 37° 44′*†	30.35	770.9	70	21.1		se.			4		8		s.	o	o	r'gh	s.	cloudy.
Bk. Great Surgeon, S. 39° 35′, E. 12° 49′ *†	30.27	768.8	56	13.3		wnw.			5		8		wsw.	o	o	long	wsw.	cloudy.
Bk. Godeffroy, S. 58° 27′, W. 66° 19′	29.65	753.1	34.5	1.4	100	w.			3		8		wnw.	rain	rain	mod	w.	foggy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.07	763.8	56	13.3		se.			4					6 h'r	6 h'r			raining.
Bk. Pilgrim, S. 30° 40′, E. 9° 50′*†	30.30	769.6				se.			4		4		se.	1 h'r	1 h'r	mod.	se.	clear.
Bkt. Willie, S. 16° 12′, W. 36° 05′*†	30.15	765.8	79	26.1		se.			4		8		se.	2 h'r	2 h'r	short	s.	cloudy.
Bk. Mohican, S. 22° 01′, W. 29° 10′	29.98	761.5	72	22.2		ssw.			6		0			o	o	long	ssw.	clear.
S. S. Olbers, S. 17° 15′, W. 37° 48′	30.24	768.1	73	22.8	90	se.			5		7		se.	o	o	sli't	var.	dull.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.09	764.3	75	23.9		calm			1		2	ssw.						blue sky.
Bg. John Wesley, Pernambuco Roads, Brazil*†	29.94	760.5	79	26.1		calm			0		5			o	o	mod.	ese.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 43° 13′, E. 135° 40′	29.86	758.4	57	13.9	75	wsw.			3		3	sw.				2	sw.	blue sky.
H. M. S. Cleapatra, N. 42° 36′, E. 134° 30′	29.85	758.2	53	11.7		wsw.			5		4					5	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 20′, E. 123° 45′	30.13	765.3	64	17.8	62	wnw.			4		2					4		blue sky.
H. M. S. Magpie, N. 5° 50′, E. 118° 07′	29.89	759.2	81.9	27.7	81	w.			1		2		wsw.					blue sky.
H. M. S. Zephyr, N. 43° 11′, E. 134° 27′	29.89	759.2	50	10.0	?	wsw.			2		2	sw.				2	sw.	blue sky.
H. P. M. S. Tamega, Canton, China	30.04	763.1	80.6	27.0	77	nne.			3		6			½ h'r	½ h'r			d. clouds
U. S. Naval Hospital, Yokohama, Japan	30.03	762.7	65	18.3	78	calm			0		4		w.	o	o			gloomy.
U. S. S. Essex, Roze Island, Corea	30.12	765.0	63	17.2	62	nw.			1		2					sm'h	sw.	clear.
U. S. S. Hartford, N. 7° 01′, W. 81° 22′*	29.88	758.9	82	27.8	91	sw.			2		7			2 h'r	2 h'r	sm'h	s.w.	cloudy.
H. M. S. Juniata, N. 2° 19′, E. 104° 57′	29.91	759.7	80	26.7	100	wnw.			3		0?			mod.	mod.	sm'h		fair.
U. S. S. Monocacy, Che Foo, China	30.16	766.1	67	19.4	74	s.			1		0					sm'h		clear.
U. S. S. Palos, Hong Kong, China	30.04	763.0	78	25.6	78	e.			1		5		ne.					fair.
U. S. S. Pensacola, N. 21° 04′, E. 158° 57′ *	29.90	759.4	83	28.3	79	e.			2		2		e.	o	o	light	e.	clear.
U. S. S. Richmond, Yokohama, Japan	29.98	761.5	68	20.0	79	nnw.			1		10		nnw.	o	o			cloudy.
S. S. Oregon, San Francisco, Cal.†	30.00	762.0	54	12.2	93	calm			0									foggy.
S. S. Ancon, N. 35° 12′. W. 120° 55†	29.92	760.0	58	14.4	88	nw.			3		10					mod.	wnw.	fog; smoke.
S. S. State of California, N. 41° 20′, W. 124° 30′†	29.99	761.7	59	15.0	88	w.			2		10							overcast.
S. S. Queen of the Pacific, San Francisco, Cal.†	29.97	761.2	54	12.2	100	nw.			1		0			o	o	sm'h		foggy.
S. S. Victoria, off Trinidad, Cal.†	29.94	760.5	56	13.3	87	nnw.			4		7		nnw.			light	nnw.	foggy.
S. S. City of New York, N. 30° 39′ W. 137° 27′ †	30.01	762.2	71	21.7	80	s.			6		7		s.			mod.	sw.	cloudy.
S. S. City of Pekin, N. 33° 45′, E. 136° 55′†	30.05	763.3	71	21.7	85	w.			3		2		nw.	o	o	sm'h		clear.
S. S. City of Tokio, N. 22° 27′ E. 115° 01′†	30.09	764.3	80	26.7	87	se.			2		3		se.	o	o	sm'h		fair.
S. S. City of Rio de Janeiro, N. 34° 50′, E. 152° 58′†	29.85	758.2	75	23.9	81	nnw.			6		10		nne.	light	light	r'gh	nne.	gale.
S. S. Grenada, Panama, Panama†	29.92	760.0	77	25.0	95	ne.			1		7		n.	2 h'r	2 h'r	light	s.	rainy.
S. S. San Blas, N. 16° 51′, W. 99° 50′†	29.99	761.7	82	27.8		nne.			4		10		ne.	3 h'r	3 h'r	mod.	sw.	cloudy
S. S. Zealandia, N. 25° 00′, W. 151° 38′†	30.03	762.7	78	25.6	91	var.			2		10					mod.		raining.
S. S. San Juan, N. 24° 18′, W. 111° 32′			81	27.2		w.			3	5 ck			nw.	o	o	light	sw.	fine.
S. Armenia, N. 2° 46′, W 117° 25′*	29.90	759.4	78	25.6	82	sse.			4		7		sse.	o	o	mod.	sse.	cloudy.
S. Storm King, N. 17° 41′, W. 120° 26′*†	29.99	761.7				nnw.			2		2		nnw.	o	o	sm'h	n;s	
S. Saint David, N. 38° 47′, W. 126° 00′*†	30.08	764.0	66	18.9	84	sse.			2		10		sse.	o	o			hazy.
S. E. B. Sutton, N. 22° 00′, W. 120° 34′*†	30.00	762.0	74	23.3	86	nnw.			2		10		nnw.	o	o	sm'h	var.	overcast.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.91	759.7	79.3	26.3	85	se.			1		10					sm'h		misty.
H. M. S. Mutine, S. 0° 58′, W. 84° 00	30.05	763.3	66	18.9		ssw.			3		8					3	ssw.	d. clouds.
U. S. S. Iroquois, Callao, Peru	30.11	764.8	60	15.6	88	se.			2		8							cloudy.
U. S. S. Lackawanna, Iquique, Peru*	30.07	763.8	60	15.6	77	calm			0		10							misty.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Onward. Callao, Peru *†	30.18	766.6	59	15.0	88	se.	.....	.....	1	.....	10	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Wachusetts, S. 17° 04′, W. 72° 11′*	30.07	763.8	60	15.6	94	ne.	.....	.....	2	.....	10	.....	calm	.....	.....	long	s.	overcast.
S. S. City of Sydney, Sydney. N S. W*†	30.10	764.5	61	16.1	88	s.	.....	.....	2	.....	8 k;n	.....	s.	.....	.....	.....	.....	cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.13	765.3	64	17.8	.....	se.	.....	.....	2	.....	.....	.....	.....	0	0	long	se.	dense fog.
S. David Crocket, S 51° 27′, W. 96° 05′*	29.45	748.0	43.5	6.4	87	nw.	.....	.....	4	.....	3	.....	wnw.	0	0	mod.	wnw.	squally
S. Sovereign of the Seas, S. 22° 13′, W. 87° 20′*†	30.26	768 6	70	21.1	90	nnw.	.....	.....	1	.....	8	.....	wnw.	0	0	long	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 08′, E. 57° 29′	30.15	765.8	.....	.....	.....	ese.	.....	.....	1	.....	4	ese.	.....	.....	.....	1	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	30.00	762.0	78	25.6	86	wnw.	.....	.....	2	.....	3	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.07	763.8	78	25.6	91	wsw.	.....	.....	2	.....	2	nnw.	.....	.....	.....	2	nnw.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.88	758.9	90.5	32.5	60	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Galatia, Calcutta, India †	29.75	755.6	86	30.0	92	ese.	.....	.....	1	.....	4?	.....	ne.	0	0	.....	.....	cloudy.?
S. S. Benledi, N. 12° 45′, E. 45° —*	29.72	754.9	88	31.1	76	s.	.....	.....	2–3	.....	0	.....	.....	0	0	sm'h	.....	hazy.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 27, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.11	764.8	81.0	27.2	83	se.			1		0			0	0	clear	Roziere.
Algiers			30.09	764.3	79.9	26.6	61	ene.			1		0			0	0	clear	Thève.
La Calle			30.05	763.2	75.9	24.4	76	nnw.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.08	763.9	77.0	25.0	58	e.			3		2			0	0	clear	Delord.
Saida			30.15	765.8															Pérès.
Tebessa			30.08	763.9	73.4	23.0	83	nne.			1		0			inap.	inap.	clear	St. Martin.
Geriville					86.0	30.0	30	n.			2		0			0	0	clear	Forfert.
Laghouat			30.13	765.2	83.5	28.6	38	ene.			2		0			0	0	clear	Abraham.
Biskra			30.08	764.0	92.8	33.8	21	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.39	771.9	48.6	9.2	82	s.	6	2.7			1 s			0.019	0.5	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.12	765.0	30.21	767.3	51.0	10.6	87	s.	13	5.8			9			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.52	749.8	30.06	763.5	66.4	19.1	66	se.			2		0			0	0		Prof. Ivan Stozir.
Oracow, I. R Observatory	29.17	740.9	29.91	759.8	69.4	20.8	51	sw.	8.7	3.9			4			0	0		Dr. Wierzbiski
Eperies	29.17	740.8	30.02	762.6	64.0	17.8	74	s.			2	8 cs		n.		0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.72	729.5	30.12	765.1	66.2	19.0	56	se.			2		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.57	725.6	29.87	758.7	65.1	18.4	83	ene.			1		4			0.098	2.5		The Staff.
Lemberg	29.04	737.5	30.00	762.1	63.3	17.4	66	sw.			4		9			0	0		Dr. T. Stanecki.
Pola	29.94	760.4	30.04	763.1	72.0	22.2	71	wnw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.61	752.0	30.06	763.5	69.4	20.8	50	w.			5		3			0	0		Joseph Midlinesky, S. J
Szegedin	29.80	756.8	30.07	763.8	66.9	19.4	61	se.			1		0			0	0		Karl Stuccel.
Trieste	30.00	761.9	30.10	764.4	72.0	22.2	57	nw.			1		2			0	0		Royal Academy.
Vienna	29.27	743.5	29.97	761.3	66.4	19.1	75	se.			2		3			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.03	737.3	29.12	739.6	53.7	12.1	88	w.	21	9.4			10			0.170	4.3	showery	W. Boswell.
Armagh, Observatory	29.32	744.7	29.56	750.8	55.0	12.8	82	w.	9	4.0			10					overcast	S. Oall.
Bidston, Liverpool Obs'y			29.51	749.5	55.0	12.8	81	wsw.	25	11.2			10					overcast	John Hartnup.
Bolton, Sharples	28.96	735.6	29.48	748.8	53.2	11.8	91	wsw.	24	10.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.06	738.1	29.45	748.0	56.4	13.6	80	sw.			5		8			0.20	5.1	d. clouds	McLandsborough&Preston.
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	68	se.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.52	749.8	29.63	752.6	57.0	13.9	87	sw.			3.0		10					overcast	John McLaren.
Chatham, School M. E.	29.50	749.3	29.66	753.4	63.6	17.6	67	sw.			3		4					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.55	750.6	29.77	756.1	58.6	14.8	76	wnw.			5		8					d. clouds	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	75.0	23.9	39	n.			1		2					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.62	752.3	29.85	758.2	88.0	31.1	73	calm			2		1					d. clouds	J. W. Smith.
Galway, Queen's College	29.61	752.1	29.64	752.8	59	15.0	76	w.			2		4			0.57	14.5	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	74.0	23.3	90	w.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.11	739.4	29.31	744.5	56.7	13.7	78	w.			5		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.48	748.8	29.64	752.8	62.3	16.8	63	sw			4		8					d. clouds	The Staff.
Guernsey	29.50	749.3	29.79	756.7	58.6	14.8	84	wsw.			5		4					d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.62	752.3	29.65	753.1	60.1	15.6	74	wsw.	16	7.2			8					threatening	The Staff.
Leicester, Museum	29.29	744.0	29.54	750.3	60.4	15.8	68	sw.			2		8					overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	74.2	23.4	70	ne.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.13	765.3	83.0	28.3	73	ne.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.06	738.1	29.58	751.3	58.9	14.9	76	ssw.			5		7					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.41	747.0	29.64	752.8	52.7	11.5	96	sw.			4		10					raining	The Staff.
Plymouth	29.63	752.6	29.70	754.4	60.6	15.9	91	w.			3		10					showery	John Merrifield.
Sandwick Manse, Orkneys.	29.12	739.6	29.22	742.2	54.4	12.4	90						6					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.01	762.2	30.08	764.0	70.0	21.1	56	ne.			2		4			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.23	742.4	29.52	749.8	59.8	15.4	84	sw.			4		5			0.04	1.0	d. clouds	W. F. Cooper.
Silloth Rectory	29.34	745.2	29.37	746.0	54.5	12.5	87	w.			5		10			0.010	0.3	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory					53.3	11.8	91	w.	24	10.7			10					raining	W. C. Carlisle.
Strathfield Turgiss					59.5	15.3	88	sw.			2.0		9					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.77	756.1	29.86	758.4	62	16.7	72	w.			7		0					threatening	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.81	757.2	58.1	14.5	85	nw.	25	11.2			6			blank	blank	squally	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.69	754.1	30.08	764.0	73.4	23.0	57	n.	12.4	5.5			1 k		w.	0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	29.82	757.4	29.86	758.4	48	8.9	85	sw.	15	6.7		0	3 s			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	54	12.2	74	sw.	14	6.3		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.95	760.7	46	7.8	77	sw.	6	2.7		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.70	754.4	29.89	759.2	49.2	9.6	77	sw.			2	0	8 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.68	753.9	29.72	754.9	47.5	8.6		calm	0	0			10 n			0.07	1.8	raining	H. A. Johnson.
Edmonton, N. W. T.	27.80	706.1			33	0.6	61	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.69	754.1	29.71	754.6	50	10.0	80	w.	30	13.4		0	0			0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.27	743.4	30.14	765.5	29	−1.7	88	nw.	7	3.1			10 ks		nw.	0	0	cloudy	James Stewart.
Fredericton, N. B.	29.97	761.2	30.04	763.0	46.1	7.8	77	e.	5.0	2.2		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.02	762.5	30.08	764.0	53	11.7	93	sw.	12	5.4		0	0			0	0	clear	J. Chipman Seeley
Granton, Ontario	28.82	732.0	29.93	760.2	48.0	8.9	78	s.	9	4.0		1 c	0	n.		0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.01	762.2	30.14	765.5	50	10.0	86	sw.	4	1.8		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.49	749.0	29.88	758.9	54.7	12.6	90	sw.			3	2 c	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.72	754.9	30.06	763.5	55	12.8	77	sw.	20	8.9		0	0			0	0	hazy	A. P. Knight, M. A
Little Glace Bay, N. S.	30.06	763.5	30.10	764.5	56.0	13.3	77	sw.			6		10 n?			0.112	2.8	blue sky?	C. H. Rigby.
London, Ontario	29.68	738.6	29.98	761.5	50.7	10.4	82	sw.			2	3 cs	0			0	0	blue sky	E. B. Reed.
Medicine Hat	27.83	706.9	30.27	768.8	36	2.2	72	calm	0	0		0	0			c	0	blue sky	John Ewart.
Montreal, Quebec*	29.70	754.4	29.90	759.4	50	10.0	74	sw.	16	7.2		5 k	5 ks	w.	w.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.63	752.6	29.87	758.7	50.7	10.4	86	ssw.				0	3 ks			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.11	739.4	29.79	756.7	54	12.2	86	sw.	16	7.2		5 k	5 ks	sw.	sw.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.17	740.9	29.90	759.4	52.7	11.5	66	w.			2	0	7 k			0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.29	744.0	29.96	761.0	56	13.3	81	sw.	12	5.4		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.96	761.0	58	14.4	70	sw.	20	8.9		hz.	0			0	0	hazy	M. Payne.
Qu Appelle, N. W. T	27.88	708.1	30.27	768.8	24	−4.4	84	calm	0	0		5 ck	5 ks	nw.	nw.	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.52	749.8	29.87	758.7	48	8.9	89	sw.	16	7.2		10 k		w.		0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.31	744.5	29.77	756.1	46	7.8	93	calm	0	0			10 ks		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.01	762.2	30.06	763.5	47	8.3	84	sw.	8	3.6		0	0			0	0	clear	
St. John, N. B	29.92	760.0	30.05	763.5	49.3	9.6	90	s.	4	1.8		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	29.71	754.6	29.96	761.0	47	8.3	92	w.			2	0	0			0	0	clear	The Commandant.
Saugeen, Ontario*	29.12	739.6	29.82	757.4	54	12.2	72	sw.	16	7.2			10 n		nw.	0	0	cloudy	
Stratford, Ontario	28.67	728.2	29.95	760.7	48.4	9.1	82	sw.	8.5	3.8			10 s			0	0	d. clouds	O. J. Macgregor, M. A
St. Pierre, N. F.			30.04	763.0	54.7	12.6		w.			3					0	0		The Commandant.
S. W. Point, Anticosti	29.68	753.9	29.71	754.6	45	7.2	89	sw.	5	2.2		5 c	hz	w.		0	0	hazy	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
Sydney, C. B.	30.01	762.2	30.07	763.8	49	9.4	80	sw.	12	5.4		0	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.58	751.3	29.96	761.0	49	9.4	77	sw.	7	3.1		2 cs	0	W.		0	0	fair	Magnetic Observatory.
Woodstock, Ontario	28.92	734.6	29.98	761.5	52.8	11.6	73	s.	21	9.4		9 cs	0	W.		0	0	gloomy	Prof. Wolverton, M.A.
Yarmouth, N.S*	30.04	763.0	30.11	764.8	52	11.1	90	sw.	9	4.0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House.	29.92	760.0	29.95	760.7	66.0	18.9	86	ene.	18.5	8.3		0	0			0	0	fine	I. Garfelt.
Springbok Fontein	27.90	708.6			72	22.2	43									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	30.03	762.8	30.11	764.8	55.4	13.0	90	nw.			1		9		w.			cloudy	Samuel Redolez.
Iquique	30.05	763.2	30.08	763.9	63.7	17.6	71	sw.			3	4 k						fair	Rafael Moreno.
Niebla	29.46	748.2	29.56	750.9	50.0	10.0	86	nw.			2		7		nw.	0.551	14.0	drizzling	Federico Köhling.
Punta Caldera	30.02	762.4	30.10	764.6	56.3	13.5	83	se.			1		6 s		ne.			cloudy	Manuel Tobar.
Punta Corona	29.54	750.2	29.72	755.0				n.			4	10		nw.		0.260	6.6	cloudy	Ignacio Ayala.
Valparaiso	29.90	759.5	30.04	763.1	53.8	12.1	87	ne.			1							raining	Paez-i-Ampuero.
CHINESE (*sub-series*).																			
Sung-shu-chwang	25.28	642.2																	A. Guelay.
Zi-Ka-Wei, near Shanghai.	30.17	766.4	30.20	767.1	62.6	17.0	74	e.	2.9	1.3		0	0			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.65	753.2	29.70	754.4	60.4	15.8	75	sw.	11	5			7					hazy	Oversergent Fischer.
Fanoe	29.56	750.7	29.58	751.2	58.3	14.6	86	s.	13	6			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.57	751.0	29.61	752.1	50.2	10.1	84	se.	4	2			8						A. O. Thorlacius.
Thorshavn	29.58	751.2	29.60	751.8	50.4	10.2	82	ne.	16	7			5						Overloerer Bergh.
Vestervig	29.41	747.1	29.50	749.4	57.4	14.1	87	sse.	9	4			7						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.80	756.9			95.4	35.2		e.	2.5	1.1			0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.72	754.8	30.10	764.6	64.4	18	100	nw.			2		10		w.			raining	M. Labroue, Director.
Alençon, Normal School	29.52	749.9	30.04	762.9	63.0	17.2	74	sw.			1	c		ne.		0.213	5.4		M. Nicot, Director.
Avignon, Normal School	29.93	760.1	30.00	762.1	69.8	21	72	sw.			1		10		sw.	0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.38	746.2	29.92	760.0	62.6	17.0	61	nnw.			2		8 kn		wnw.	0.059	1.5	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.58	751.4	29.84	757.9	64.4	18	63	w.			4		10		w.	0.382	9.7	covered	M. Frère Eugène Marlè.
Besançon, Normal School	28.98	736.0	29.85	758.2	61.5	16.4	93	s.			1					0.039	1.0		M. Gobin, Director.
Bordeaux, Observatory	29.75	755.6	30.01	762.2	59.2	15.1	90	sw.			1		10			0.039	1.0	raining	M. Rayet, Director.
Bourges, Normal School	29.41	747.1	29.95	760.8	59.0	15	85	wsw.			2		k		wsw.	0.035	0.9		M. Malet, Director.
Brest, Naval Observatory	29.69	754.2	29.94	760.4	63.3	17.4	83	w.			4		6		w.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.76	756.0	29.85	758.1	64.4	18	62	w.			2		5		w.	0.098	2.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.60	751.9	29.91	759.8	63.1	17.3	72	sw.			1		5		w.	0.205	5.2	cloudy	M. Jadot, Director.
Charleville, Normal School	29.35	745.6	29.85	758.2	67.6	19.8	54	s.			2		8			0.67	17.	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.62	726.9	29.95	760.7	62.6	17.0	95	ne.			1		10			0.772	19.6		M. Alluard, Director.
Cluny, Normal School	29.14	740.1	29.99	761.8	62.6	17	84	s.			2				ssw.	0.220	5.6		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.2	29.91	759.7	59.0	15	80	w.			4		10 kn	W.	w.	0.165	4.2	covered	Dr. Coulet, Director.
Gap, Normal School	27.53	699.3	29.98	761.6	69.8	21	56	s.			2		5 k			0.291	7.4		M. Jarach, Director.
Grésasque, du Rhone	28.91	734.3	30.00	762.1	71.6	22.0	50	s.			4		5		sw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.19	741.3	29.93	760.2	70.2	21.2	63	n.			1	ck		W.		0	0		M. Ablard, Directoor.
Guéret, Normal School	28.43	722.1	29.99	761.7	55.0	12.8	83	sw.			1		10 n		sw.	0.12	3.	covered	M. Delorme, Dir.
Lamballe, Normal School	29.56	750.9	29.84	757.9	63.0	17.2	68	w.			4		5		w.	0.16	4.	cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.50	749.4	30.13	765.3	57.4	14.1	95	sw.			1		10			0.063	1.6	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.84	757.8	29.94	760.4	61.9	16.6	77	w.			6		10	nw.	sw.	0.83	21.	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.88	733.6	29.91	759.8	68.5	20.3	55	s			2		10 k		sw.	0.020	0.5	covered	M. André, Director
Mans, Normal School	29.60	751.9	29.91	759.7	61.7	16.5		wsw.			4		5 kn		wsw.	0.220	5.6	cloudy	M. Richard, Director
Marseille, Observatory	29.76	755.9	30.02	762.6	72.5	22.5	58	se.			2		6		w.	0.024	0.6		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	55.0	12.8	36	e.	13.0	5.8			6	n.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.88	758.9	29.98	761.6	65.8	18.8	98	se.			2		⊖			0.213	5.4	clear	M. Galzin, Director.
Nantes, Observatory	29.82	757.5	29.98	761.6	61.9	16.6	69	ssw.			1–4		8 k; kn		sw.	0.185	4.7		M. Larocque, Director.
Perpignan, Observatory	29.87	758.6	29.97	761.3	75.4	24.1	66	n.	5.6	2.5			10		sw.	0.020	0.5		Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.4			39.9	4.4		sw.			2				sw.	0.079	2.0		M. Vaussenat, Director.
Privas, Normal School	29.04	737.6	30.09	764.2	67.6	19.8	77	s.			3		10	s.	s.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.15	638.8			48.2	9.0	100	w.			3		10			0.835	21.2	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.97	761.1	30.00	761.9	66.2	19.0	70	wsw.			2		10		w.	0.047	1.2	covered	Lt. E. Fecante, Director.
Roche-sur-Yon, N. School	29.76	756.0	29.98	761.4	64.0	17.8	100	w.			4		5		w.	0.08	2.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.87	707.9	30.02	762.5	52.2	11.2	93	w.			1		10		ne.	0.343	8.7	covered	M. Seger, Director.
Rouen, Normal School	29.78	756.5	29.83	757.7	65.5	18.6	94	sw.			2		5	W.		0.252	6.4	cloudy	M. Moullot, Dir.
Saint Maur, Observatory	29.73	755.1	29.89	759.3	61.9	16.6	66	sw.			2		10		wsw.	0.681	17.3		M. Renou, Director.
Toulouse, Observatory	29.33	745.0	30.06	763.4	69.4	20.8	72	w.			2		10	W.		0.213	5.4	covered	M. Baillard, Director.
Tours	29.74	755.5	29.92	759.9	65.1	18.4	62	sw.			1		5	sw.	sw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.39	746.5	29.88	759.0	63.0	17.2	65	sw.			4		5			0.051	1.3	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.98	761.6	30.13	765.4	60.4	15.8	87	nw.	9.8	4.4			10 kn		w.	0.197	5.0	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.44	722.4	29.84	757.9	68.0	20.0	65	sw.			2		9	sw.		0	0		Prof. Jnedt.
Bamberg	29.06	738.0	29.89	759.3	68.4	20.2	73	sw.			1		9 n		sw.	0.748	19.0	heavy rain	Prof. Dr. Hoh.
Berlin	29.67	753.7	29.81	757.2	62.6	17.0	78	sw.			1		10			0.339	8.6		Dr. Lensch.
Breslau	29.38	746.3	29.91	759.7	68.2	20.1	66	ssw.			2		10			0.024	0.6	hazy	Royal University Obs'y.
Carlsruhe	29.44	747.7	29.89	759.1	64.0	17.8	92	sw.			2		10	sw.		1.000	25.4	raining	Albert Senz.
Cassel	29.11	739.4	29.82	757.5	59.4	15.2	93	s.			5		10	s.		0.244	6.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.45	748.0	29.81	757.2	61.3	16.3	92	w.			1		10			0.059	1.5		Physical Society.
Friedrichshafen	28.53	724.7	29.91	759.8	64.8	18.2	79	wsw.			1		9	W.		0.858	21.8		Wilhelm, Chief Tel.
Hamburg	29.64	752.9	29.73	755.2	61.5	16.4	77	sw.			4		8	sw.		0.185	4.7		E. Freiler.
Kiel	29.67	753.7	29.69	754.1	60.1	15.6	86	sw.			1		6			0.256	6.5		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.42	747.3	29.84	757.9	59.9	15.5	89	se.			1		9	sw.		0.059	1.5	raining	H. Leppig, Asst.
Magdeburg	29.61	752.0	29.79	756.7	61.7	16.5	70	ssw.			2		10	sw.		0.228	5.8		Weather Observatory.
Memel	29.79	756.7	29.84	757.9	54.1	12.3	98	sse.			3		10						Issermann.
Munich	28.09	713.5	29.95	760.7	70.0	21.1	54	ne.			2		3	n.		0	0		Central Station.
Neufahrwasser	29.77	756.2	29.79	756.6	62.6	17.0	86	s.			1		10	W.		0.083	2.1	sprinkling	A. Lothes.
Neustadt, Palatinate	29.30	744.2	29.82	757.5	67.3	19.6	77	sw.			4		10			0	0		Dicknether.
Stuttgart	28.94	735.0	29.81	757.1	64.4	18.0	85	sw.			1		10			0.591	15.0		Prof. Dr. Schoder.
Wustrow	29.69	754.1	29.71	754.7	59.4	15.2	86	sw.			2		8 s			0.232	5.9		Profs. Brandes & Reimer
GREEK.																			
Athens	29.65	753.1	30.02	762.6	72.7	22.6		n.			3.5		7			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.71	754.6	29.76	755.9	82.3	27.9	69	wsw.	29.0	13.0			1	wsw.		0	0	d. clouds	
Deesa	29.24	742.7	29.70	754.3	94.0	34.4	37	w.	8.0	3.6			3	W.		0	0	d. clouds	
Bombay	29.76	755.8	29.80	756.8	77.5	25.3	97	nw.	17.0	7.6			10		w.	0.65	16.5	raining	
Poona, Yarrowda	27.95	710.0	29.82	757.5	72.6	22.6	94	nnw.	6.0	2.7			10			1.16	29.5	overcast	
Trichinopoly	29.50	749.4	29.79	756.6	73.3	22.9	77	nw.	0.2	0.1			4			0	0	d. clouds	
Bellary	28.25	717.5	29.69	754.0	89.5	31.9	44	w.	10.0	4.5			7			0	0	d. clouds	
Belgaum	27.25	692.1	29.80	756.9	72.4	22.4	88	wsw.	8.0	3.6			10	W.		0.02	0.5	d. clouds	
Lahore	28.94	735.2	29.67	753.7	88.3	31.3	49	calm	0	0			0			0	0	blue sky	
Roorkee	28.75	730.3	29.63	752.6	89.2	31.8	46	calm	0	0			0			0	0		
Agra	29.08	738.6	29.62	752.5	96.1	35.6	26	nw.	4.0	1.8			3		nw.	0	0	d. clouds	
Nagpur	28.67	728.2	29.70	754.3	86.5	30.3	53	calm	0	0			3	W.		0	0	d. clouds	
Jubbulpore	28.39	721.0	29.72	754.8	88.4	31.3	41	nne.	6.0	2.7			4	ne.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.28	743.7	29.65	753.1	90.1	32.3	40	nnw.	1.0	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.36	745.7	29.67	753.5	85.5	29.7	69	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.50	749.4	29.69	754.0	84.4	29.1	72	calm	3.2	1.4	.....	.....	4	e	e.	0	0	d. clouds	
Hazaribagh	29.71	703.9	29.71	754.5	80.5	26.9	70	nnw.	3.9	1.7	.....	.....	9	.....	.....	0	0	d. clouds	
Cuttack	29.64	752.9	29.72	755.0	83.2	28.4	78	calm	0	0	.....	.....	7	.....	.....	0.49	10.2	d. clouds	
Calcutta, Alipore	27.71	754.5	29.73	755.1	82.5	28.1	87	e.	4.0	1.8	.....	.....	8	.....	e.	0.12	3.0	gloomy	
Dhubri	29.60	751.7	29.71	754.7	79.4	26.3	87	calm	1.2	0.5	.....	.....	1	.....	sw.	0.05	1.3	d. clouds	
Chittagong	29.70	754.3	29.79	756.6	75.5	24.2	96	sse.	6.7	3.0	.....	.....	9	.....	s.	0.44	11.2	gloomy	
Sibsagar	29.46	748.2	29.80	756.8	75.3	24.1	90	se.	2.0	0.9	.....	.....	10	w.	w.	1.25	31.8	overcast	
Jeypore	28.29	718 6	29.69	754.2	94.4	34.7	26	nw.	5.3	2.4	.....	.....	3	.....	nw.	0	0	d. clouds	
Zanzibar	29.98	761.5	.....	.....	82.5	28.1	64	sw.	3.8	1.7	.....	.....	1	ese.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.67	753.5	30.06	763.6	73.2	22.9	49	s.	0.7	0.3	.....	.....	4	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.56	750.7	30.06	763.5	71.6	22.0	60	ne.	3.1	1.4	.....	.....	4	ssw.	.....	0	0	.....	Prof. G.V.Schiapparelli
Padua	29.95	760.6	30.05	763.3	72.9	22.7	47	s.	3.8	1.7	.....	.....	1	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.18	741.2	30.07	763.7	66.2	19.0	72	nw.	0	0	.....	.....	6	nnw.	.....	0.413	10.5	.....	Prof. F. F. Denza.
Genoa	29.89	759.1	30.07	763.8	72.9	22.7	70	s.	6.9	3.1	.....	.....	4	se.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28 21	716.5	30.08	764.0	66.6	19.2	65	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.02	762.6	30.07	763.8	70.5	21.4	62	sw.	8.7	3.9	.....	.....	0	.....	.....	0	0	.....	Prof. Costantino Pittei
Florence	29.81	757.2	30.06	763.5	73.4	23.0	38	n.	.....	.....	4	.....	.....	.....	.....	0	0	.....	Prof. P. Monte.
Leghorn	29.94	760.4	30.02	762.5	73.9	23.3	71	sw.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Rome	29.89	759.3	30.06	763.6	77.2	25.1	40	ssw.	3.1	1.4	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Lecce	29.79	756.6	30.03	762.8	73.4	23.0	48	n.	13.6	6.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cosenza	29.19	741.3	30.05	763.3	71.2	21.8	62	wnw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. A. Pacinotti.
Cagliari	29.87	758.7	30.06	763.5	74.5	23.6	66	s.	.....	.....	4	.....	1	.....	.....	0	0	.....	Prof. G. Cacciatore.
Palermo	29.84	757.9	30.08	764.0	74.5	23.6	52	ne.	3.8	1.7	.....	.....	.....	.....	.....	0.079	2.0	.....	Sig. Vincenzo Giuliano
Syracuse	29.95	760.7	29.99	761.8	70.7	21.5	69	nne.	11.9	5.3	.....	.....	9	nne.	.....				
Sub-series.																			
Naples, S. R	29.56	750.7	30.07	763.7	74.1	23.4	47	n.	0	0	.....	.....	0	.....	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.18	766.5	30.22	767.5	52.9	11.6	99	calm	.....	.....	0	0	2 k	.....	w.	0.079	2.0	clear	H. Hattori.
Awomori	30.14	765.5	30.18	766.6	50.7	10.4	79	ssw.	5.3	2.4	.....	0	1 ks	.....	.....	0.039	1.0	clear	K. Ogawa
Hamamatsu	30.06	763.5	30.16	766.0	63.8	17.7	87	n.	.....	.....	2	.....	10 n	.....	.....	.....	.....	raining	Sekigawa & Yamazaki.
Kagoshima	30.14	765.6	30.15	765.9	60.0	15.6	76	w.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanoonaza.
Kanazawa	30.10	764.6	30.20	767.2	56.1	13.4	86	se.	4.4	2.0	.....	0	1 ck	.....	.....	0	0	fair	S. Endo.
Kioto	30.00	761.9	30.17	766.3	56.3	13.5	79	nne.	1.6	0.7	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.15	765.7	30.17	766.2	62.9	17.2	80	nw.	3.5	1.5	.....	0	4 s	.....	.....	0	0	fair	K. Kusunose.
Minaka	30.13	765.4	30.16	766.1	58.1	14.5	88	nne.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masuaki.
Miyako	30.10	764.4	30.20	767.2	49.4	9.7	91	ssw.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.97	761.2	30.17	766.3	61.0	16.1	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Takenayasu.
Niigata	30.18	766.6	30.22	767.6	57.3	14.1	89	ne.	5.9	2.6	.....	0	1 ks	.....	n.	0	0	clear	Satoo & Tomikawa.
Nobiru	30.18	766.7	30.20	767.1	54.5	12.5	84	nnw.	9.2	4.1	.....	0	1 ks	.....	.....	0	0	clear	Yoshino & Midzushima.
Numazu	30.14	765 5	30.18	766.5	61.4	16.3	73	ese.	.....	.....	2	.....	10 s	.....	.....	0	0	cloudy	K. Kaneda.
Osaka	30.15	765.8	30.17	766.2	59.9	15.0	76	ne.	4.8	2.1	.....	0	2ck;s	.....	.....	0	0	clear	H. Omura.
Sakai	30.17	766.3	30.18	766.5	65.2	18.4	60	nne.	.....	.....	4	.....	9 ks	.....	s.	0	0	cloudy	Yamawchi&Sakamoto.
Shimonoseki	30.04	763.0	30.19	766.7	60.5	15.8	78	calm	.....	.....	0	0	0	.....	.....	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.11	764.8	30.19	766 7	62.3	16.8	79	ene.	4.4	2.0	.....	.....	10s;ks	.....	wnw.	0	0	cloudy	The Staff.
Wakayama	30.09	764.4	30.15	765.7	59.5	15.3	73	e.	3.8	1.7	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	73.8	23.2	61	ese.	20.0	8.9	.....	10;cs	1 k	wnw.	ese.	0	0	clear	The Staff.
MEXICAN.																			
Leon	24.39	619.5	30.05	763.3	59.9	15.5	90	w.	0.9	0.4	.....	.....	9 ck;n	.....	.....	0.016	0.4	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	76.0	24.4	91	ne.	1.6	0.8	.....	.....	10 n	.....	.....	0.394	10.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	74	23.3	97	ne	.....	.....	1	.....	10 s	.....	s.	0	0	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.74	755 3	29.74	755.3	62.2	16.8	.....	ssw.	.....	.....	5	.....	.....	.....	.....	0.012	0.3	.....	
Groningen	29.60	751.9	29.66	753.3	58.3	14.6	.....	sw.	.....	.....	4	.....	.....	.....	.....	0.220	5.6	.....	
Helder	29.62	752.3	29.62	752.3	60.8	16.0	.....	sw.	.....	.....	5	.....	.....	.....	.....	0.020	0.5	.....	
Hellevoetsluis	29.72	754.9	29.72	754.9	62.8	17.1	68	sw.	.....	.....	4	.....	.....	.....	.....	0.094	2.4	.....	
Utrecht	29.68	753.9	29.73	755.1	62.8	17.1	72	sw.	.....	.....	4	.....	5	.....	.....	0.016	0.4	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759 4	.....	.....	81.0	27.2	78	ne.	0.5	0.2	.....	.....	4	.....	.....	0	0	.....	Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.34	745 2	29.40	746.8	56.8	13.8	55	ese.	14.8	6.6	.....	.....	8	.....	.....	0	0	.....	
Brono	29.70	754.3	29.74	755.3	48.9	9.4	54	se.	.....	.....	6	.....	3	.....	.....	0	0	.....	
Christiania	29.49	749.0	29.63	752.7	48.2	9.0	81	ese.	29	13	.....	.....	10	.....	.....	0.035	0.9	.....	
Gjæsvær	29.80	757.0	29.83	757.6	34.5	1.4	.....	n.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	
Lodingen	29.87	758.6	29.91	759.8	40.1	4.5	56	nne.	.....	.....	4	.....	1	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	68.7	20.4	76	nne.	3.1	1.4	.....	.....	2	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santo
Funchal, Madeira	30.13	765.3	30.22	767.5	76.8	24.9	63	sw.	9.4	4.2	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.90	759.5	30.24	768.0	68.2	20.1	53	n.	23.7	10.6	.....	.....	7	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.42	772.7	30.49	774 5	70.5	21.4	54	nne.	5.6	2.5	.....	.....	5	wnw.	.....	0	0	.....	
Saint Paul de Loando	29.76	755.8	29.96	760.9	75.9	24.4	87	w.	.....	.....	2	.....	1	se.	.....	0	0	.....	
San Salvador, Congo	28.08	713.2	29.88	759.0	87.3	30.7	42	sw.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	
Serra da Estrella	25.40	645.1	30.19	766.9	44.4	6.9	86	nw.	32.2	14.4	.....	.....	10	.....	.....	0.142	3.6	.....	
RUSSIAN.																			
Akmolinski	28.91	734.3	30.00	761.9	46.4	8.0	59	ne.	18	8	.....	0	7 n	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.50	749.3	29.52	749.8	34.5	1.4	89	nnw.	13	6	.....	.....	10	.....	.....	0.346	8.8	.....	Capt. Sselliwerstow
Ashurada	30.09	764 2	29.99	761.8	80.2	26.8	75	nw.	9	4	.....	0	1 k	.....	.....	0	0	.....	
Astrakhan	30.26	768.5	30.19	766.7	60.8	16.0	47	se.	7	3	.....	0	8 k	.....	.....	inap.	inap.	.....	Capt. Wisganow.
Baku	30.07	763.7	30.02	762.5	75.6	24.2	69	sse.	9	4	.....	0	2 ks	.....	.....	0	0	.....	
Barnaul	29.27	743.5	29.75	755.6	68.4	20.2	44	s.	4	2	.....	.....	3	.....	.....	0.067	1.7	raining	Meteorological Obs'y
Bielosersk	29.18	741.2	29.65	753.2	41.7	5.4	94	nw.	13	6	.....	.....	10 s;n	.....	.....	.....	.....	.....	
Dorpat	29.60	751.7	29.84	757.9	52.2	11.2	71	nw.	4	2	.....	0	0 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	29.08	738.5	30.05	763 2	43.7	6.5	40	w.	18	8	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y.
Elissawetgrad	29.71	754.6	30.15	765.9	62.2	16.8	29	w.	2	1	.....	1 cs	0	.....	.....	0	0	.....	
Irkutsk	28.61	726.6	30.29	769.4	39.7	4.3	43	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Kasalinsk	.....	.....	.....	.....	62.2	16.8	38	n.	13	6	.....	0	0	.....	.....	0	0	.....	Observatory.
Kasan	29.71	754.5	29.98	761.4	51.3	10.7	53	sw.	22	10	.....	8 cs	0	.....	.....	0	0	.....	
Kem	29.71	754.7	29.76	756.0	36.7	2.6	72	nw.	9	4	.....	.....	9 ks	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kertch	29.98	761.5	30.00	762.1	59.4	15.2	69	ne.	4	2	.....	0	8 n	.....	.....	0	0	.....	Observatory.
Kieff	29.39	746.4	30.01	762.3	60.6	15.9	60	ssw.	4	2	.....	c; cs	4 ks	.....	.....	0	0	.....	
Koslov	29.54	750.4	30.05	763.2	53.1	11.7	60	sw.	13	6	.....	.....	10 s	.....	.....	0	0	.....	E. Quass.
Libau	29.78	756.3	29.80	756.9	58.3	14.6	78	ese.	.....	.....	2	.....	10	.....	.....	0	0	.....	Meteorological Obs'y.
Lugan	29.89	759.2	30.09	764.3	59.2	15.1	39	ene.	9	4	.....	.....	7	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.34	745.2	29.82	757.3	49.5	9.7	60	s.	13	6	.....	.....	10 s	.....	.....	0.020	0.5	.....	Capt. Kurdakow.
Nikolaiev	30.07	763.7	30.14	765.5	60.8	16.0	37	calm	0	0	.....	0	0	.....	.....	0	0	.....	Iwanow.
Nikolaievsk-on-the-Amoor	.....	.....	.....	.....	40.1	4.5	92	wnw.	2	1	.....	1 cs	0	.....	.....	.....	.....	.....	Physical Observatory.
Pekin, China	29.78	756.4	29.92	760.0	62.6	17.0	79	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petro-Alexandrovsk	29.64	752.9	29.97	761.3	85.5	29.7	23	nw.	2.2	11.0	.....	1 cs	0	.....	.....	0	0	.....	
Petrozavodsk	29.53	750.0	29.73	755.1	40.6	4.8	81	n.	22	0	.....	5 ck	0	.....	.....	0.004	0.1	.....	Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.47	748.6	29.96	761.0	64.2	17.9	66	sw.	9	4		0	8 s			0.055	1.4		
Poti	29.93	760.2	29.96	761.0	78.3	25.7	76	w.	4	2			10 n			0	0		
St. Petersburg	29.81	757.1	29.83	757.7	44.6	7.0	57	n.	11	5		0	2 k			0.008	0.2		Central Physical Obs'y.
Samarkand	27.57	700.3	29.95	760.6	73.4	23.0	38	calm	0	0		0	0			0	0		
Semipalatinsk	29.16	740.7	29.78	756.4	76.8	24.9	24	w.	4	2			2			0	0		Major Lasarew
Sevastopol	29.87	758.7	30.08	764.0	64.9	18.3	63	n.	27	12		2 cs	0			0	0		
Staroi Bykhov	29.39	746.5	29.94	760.5	53.2	11.8	87	ssw.	11	5			10			0	0	hazy.	
Tashkend Laboratory	28.30	718.9	29.87	758.7	83.3	28.5	35	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.03	727.2	29.99	761.8	75.9	24.4	55	se.	2	1		0	4 k			inap.	inap.		Physical Observatory.
Vernoe	27.39	695.6	29.80	756.9	67.6	19.8	53	w.	2	1		0	1 k			0	0		
Viatka	29.21	741.9	29.85	758.1	43.2	6.2	91	sw.	7	3			10			0.276	7.0		
Warsaw	29.46	748.3	29.87	758.8	62.8	17.1	81	s.	9	4			10 n			0.004	0.1	hv. clouds	Astronomical Obs'y.
Yeniseisk	29.58	751.2	29.86	758.4	53.4	11.9	69	ese.	4	2			7			blank	blank		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.5	76.6	24.8	72	se.	4.0	1.8		0	2			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.12	765.0	30.18	766.5	64.4	18.0	84	nw.	2.9	1.3		2	7	sw.		0.102	2.6	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08?	687.8?	29.94?	760.5?	66.2	19.0	46	sw.	3.8	1.7			8			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.7	30.00	761.9	78.1	25.6	15	w.	18.1	8.1		2	0	wsw.		inap.	inap.	light clouds	The Staff.
Murcia, Met. Obs'y	29.85	758.1	29.97	761.3	92.1	33.4	42	s.	2.7	1.2			5	w.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.40	746.7	30.16	766.0	57.2	14.0	79	e.	10.5	4.7		8 k	8 k	w.	w.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.30	744.1	30.19	766.7	63.3	17.4	62	nw.	6.3	2.8			7			0.130	3.3	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.7	30.09	764.4	74.9	23.8	86	se.	1.6	0.7		cs	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.92	759.9	82.5	28.1	84	se.	0	0		0	3 ks			0.059	1.5	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	764.9	75.0	23.9	72	sw.	4.2	1.9		0	4		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.92	759.9	30.01	762.2	81.0	27.2	84	calm	0	0		3 cs	1 k	se.	se.	0	0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Hapsranda	29.93	760.3	29.97	761.3	40.6	4.8	62	n.			2		0			c	0		
Umea	29.93	760.2	29.98	761.5	47.1	8.4	55	n.			2		1			0	0		
Hernosand	29.89	759.2	29.94	760.5	45.3	7.4	59	ne.			4		10			0	0		
Stockholm	29.65	753.2	29.83	757.7	47.8	8.8	68	ene.			6		3			0.016	0.4		
Wisby	29.71	754.5	29.76	756.0	55.8	13.2	80	se			4		10			0.047	1.2		
Sub-series.																			
Upsala	29.73	755.2	29.83	757.7	48.9	9.4	58	ene.	10.1	4.5			3			0.335	8.5		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.56	725.3	29.95	760.6	66.4	19.1	68	ssw.			2		10			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.14	765.6	67.6	19.8	61	ne.	14	6.5			8		ne.	0	0		The Observatory.
Valona			30.13?	765.2?	77.2	25.1		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.1	82.4	28.0	51	ne.			2	1 c		w.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.06	763.5	30.14	765.5	48	8.9	75	s.	9	4.0		1 c	9 s	sw.	sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.13	739.9	29.78	756.4	51	10.6	80	sw.	8	3.6		4 k	3 s	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.94	760.5	53	11.7	59	ne.	4	1.8			10 s			0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.29	693.2	30.14	765.5	35	1.7	72	e.	4	1.8			sk.			0	0	dense smoke	B. O. Lenoir.
Atlanta, Georgia	29.09	738.9	30.26	768.6	56.0	13.3	77	nw.				0	fg.			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	58	14.4	74	calm	0	0		5 k	5 s	w.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.09	764.3	30.28	769.1	56.0	13.3	93	calm	0	0			fg.			0	0	dense fog	D. J. Young.
Baltimore, Maryland	30.18	766.6	30.23	767.8	55	12.8	80	nw.	2	0.9			10s; fg.		w.	0	0	cloudy	Geo. W. Fisher.
Barnegat City, New Jersey	30.20	767.1	30.22	767.6	54.5	12.5	80	w.	6	2.7		0	8 k		w.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.54	750.3	29.56	750.8	47.0	8.3	93	sw.	18	8.0		0	7 k		sw.	1.5?	38.?	light rain	Geo. Chernick.
Bennett, Fort, Dakota	28.52	724.4	30.11	764.8	35.0	1.7	82	nw.	1	0.4		hz.	hz.			0	0	light haze	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.20	767.1	36	2.2	82	calm	0	0			sk			0	0	dense smoke	Thomas Morgan.
Bismarck, Dakota	28.27	718.0	30.07	763.8	36	2.2	87	ne.	5	2.2		10 cs	0	w.		0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.17	766.3	30.20	767.1	56	13.3	62	w.	11	4.9		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.24	691.9	30.01	762.2	43	6.1		w.	3	1.3			10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	30.00	762.0	30.15	765.8	49.0	9.4	56	sw.	11	4.9		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.06	763.5	30.12	765.0	69.0	20.6	90	calm	0	0		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.25	742.9	29.98	761.5	52.7	11.5	66	s.	16	7.2		0	hz.			0	0	clear	Wm. Flun.
Buford, Fort, Dakota	28.13	714.5	30.11	764.8	33.2	0.9	88	nw.	5	2.2		0	4 s			0	0	fair	A. Schneider.
Cairo, Illinois	29.74	755.4	30.14	765.5	61.6	16.4	80	sw.	8	3.6		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.76	755.9	29.96	761.0	57.0	13.9	93	se.	11	4.9			fg.			0	0	dense fog	O. D. Stewart.
Cape Henry, Virginia	30.22	767.6	30.24	768.1	65.0	18.3	78	s.	13	5.8		0	8 ks		sw.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.20	767.1	30.23	767.8	61.7	16.5	74	s.	17	7.6		1 cs	3 k			0	0	fair	W. E. Smith.
Cape Mendocino, California	29.27	743.4	29.95	760.7	59	10.0	100	se.			2		fg.		se.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	68.5	20.3	87	n.	7	3.1		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.15	765.8	30.20	767.1	67.0	19.4	93	ne.	5	2.2		0	fg.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.39	746.5	30.23	767.8	58.0	14.4	86	e.	1	0.4		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.46	748.3	30.27	768.8	51.0	10.6	93	nw.	2	0.9		4 cs	fg.			0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.14	613.1	30.00	762.0	31.7	0.4	52	nw.	4	1.8		hz.	hz.			0	0	dense haze	E. McGovern.
Chicago, Illinois	29.18	741.2	29.87	758.7	52.0	11.1	80	sw.	8	3.6		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.21	767.3	30.23	767.8	64	17.8	68	s.	6	2.7		0	2 ks		sw.	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.67	763.8	55.0	12.8	69	se.	5	2.2			10 ks		se.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.29	744.0	30.01	762.2	49.7	9.8	57	s.	7	3.1		1 c	0			0	0	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.24	742.7	30.08	764.0	47	8.3	68	s.	6	2.7		5 k	0	w.		0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.20	716.3	30.10	764.5	62.3	16.8	78	sw.	12	5.4			10 s			0	0	cloudy	J. McGlone.
Custer, Fort, M. T.	26.98	685.3	30.10	764.5	35	1.7	72	e.	1	0.4		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.25	742.9	29.90	759.4	52	11.1	86	sw.	3	1.3		5 cs	fg.			0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.99	761.7	60	15.6	78	calm	0	0			10 s		se.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.29	718.6	30.04	763.0	38	3.3	64	n.	3	1.3		0	sk.			0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.46	646.7	30.02	762.5	36	2.2	66	nw.	1	0.4		0	sk.			0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.19	766.8	30.21	767.3	58	14.4	86	s.	11	4.9		0	7 s		w.	0	0	fair	T. S. Townsend.
Denver, Colorado	24.84	630.9	29.95	760.7	44.0	6.7	58	s.	7	3.1		hz.	0			0	0	dense haze	F. M. Neal.
Des Moines, Iowa	29.09	738.9	29.98	761.5	51	10.6	86	n.	8	3.6		3 cs	sk.	w.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.93	760.2	54.0	12.2	66	s.	13	5.8		2 c	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.43	696.7	29.98	761.5	52	11.1	74	se.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.17	740.9	29.87	758.7	49.8	9.9	81	sw.	1	0.4			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.22	742.2	29.96	761.0	39	3.9	82	w.	5	2.2		2 cs	5 ks	w.	w.	0	0	fair	N. B. Conger.
Eastport, Maine	29.99	761.7	30.06	763.5	52.5	11.4	72	sw.	2	0.9		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	30.03	762.7	58	14.4	65	sw.	4	1.8			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.34	669.0	29.99	761.7	59.0	15.0	67	calm	0	0			10 s		e.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.31	744.5	30.02	762.5	51	10.6	59	s.	13	5.8		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.18	741.2	29.84	757.9	44.5	6.9	93	n.	6	2.7		hz	hz.			0	0	dense haze	George Heathcote.
Galveston, Texas	30.13	765.3	30.18	766.6	70	21.1	84	ne.	6	2.7		2 ck	4 ks	s.	se.	0	0	fair	E. O'C. MacInerney
Grand Haven, Michigan	29.18	741.2	29.84	757.9	57.0	13.9	86	s.	14	6.3		8 cs	hz.	sw.		0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.29	642.4	29.89	759.2	61.2	16.2	46	ne.	10	4.5			10 s		ne.	0.02	0.5	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.22	767.6	30.24	768.1	70.0	21.1	70	ne.	10	4.5		hz.	0			0	0	clear	R. M. Orawford
Helena, Montana	25.90	657.8	30.07	763.8	41	5.0	59	sw.	1	0.4		0	0			0	0	clear	I. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.69	728.7	30.07	763.8	36	2.2	84	nw.	8	3.6		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.95	760.7	54.0	12.2	67	s.	4	1.8		0	hz.			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.11	764.8	30.14	765.5	73.4	23.0	72	e	8	3.6		0	2 ks			0	0	clear	I. A. Reed.
Jacksonville Florida	30.17	766.3	30.21	767.3	64.5	18.1	90	ne.	6	2.7		3 cs	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.30	744.2	29.94	760.5	53.0	11.7	93	sw.	6	2.7		hz.	0			0	0	dense haze	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	81	27.2	69	e.	4	1.8		2 k	0	ne.		0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	68	20.0	73	se.	15	6.7		0	hz.			0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.26	743.2	30.28	769.1	47.8	8.8	100	calm	0	0			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.89	759.2	50	10.0	86	s.	2	0.9			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.15	740.4	30.03	762.7	52.5	11.4	90	calm	0	0		0	fg.			0	0	clear	T. S. Outram.
Lewiston, Idaho					38.5	3.6	86	calm	0	0			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	59	15.0	93	calm	0	0		5 ck	0	s.		0	0	fair	W. U. Simonz.
Los Angeles, California	29.60	751.8	29.99	761.7	63	17.2	90	w.	3	1.3			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.06	763.5	58	14.4	80	s.	6	2.7		0	sk.			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.54	750.3	30.22	767.6	54	12.2	93	calm	0	0			fg.			0	0	dense fog	Louis Duane.
Mackinaw City, Michigan	29.14	740.1	29.79	756.7	51.4	10.8	86	nw.	8	3.6			10 s		nw.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.23	767.8	30.24	768.1	70.0	21.1	94	e.	7	3.1		3 k	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.69	652.5	30.09	764.3	38	3.3	36	w.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.14	740.1	29.86	758.4	45.0	7.2	68	nw.	8	3.6			10 s		nw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.84	757.9	30.18	766.6	63	17.2	73	se.	8	3.6		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.10	739.1	29.84	757.9	51	10.6	80	sw.	12	5.4		0	9 ks		sw.	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.18	766.6	30.22	767.6	59.6	15.3	71	n.	3	1.3		1 c	hz.			0	0	clear	H. U. Jones.
Montgomery, Alabama	30.04	763.0	30.27	768.8	55	12.8	80	n.	3	1.3		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.12	739.6	30.11	764.8	34	1.1	100	calm	0	0			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.72	602.5	29.88	758.9	24.0	— 4.4	94	nw.	48	21.4		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.62	752.3	30.19	766.8	55.0	12.8	80	e.	2	0.9		3 c	fg.	w.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.06	763.5	30.17	766.3	48	8.9	77	nw.	2	0.9		sk.	sk.			0	0	dense smoke	J. H. Sherman.
New London, Connecticut	30.16	766.1	30.21	767.3	51	10.6	72	calm	0	0		0	fg.			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.15	765.8	30.20	767.1	67.0	19.4	90	se.	4	1.8			fg.			0	0	dense fog	M. Herman.
New York, New York	30.05	763.3	30.22	767.6	50	10.0	77	sw.	6	2.7		0	3 k			0	0	clear	H. J. Peurod.
Norfolk, Virginia	30.20	767.1	30.23	767.8	61.8	16.6	86	se.	5	2.2		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.16	689.9	30.04	763.0	40.6	4.8	80	w.	4	1.8			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.93	760.2	29.97	761.2	48.0	8.9	100	calm	0	0			fg.			0	0	dense fog	J. Dascomb.
Omaha, Nebraska	28.88	733.5	30.04	763.0	50.2	10.1	90	nw.	1	0.4			10 s; fg			0	0	cloudy	A. Pollak
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.68	753.9	30.00	762.0	50.0	10.0	72	s.	10	4.5		0	hz.			0	0	clear	J. G. Linsley
Palestine, Texas	29.65	753.1	30.20	767.1	61.0	16.1	84	s.	3	1.3		4ck; cs	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.19	766.8	30.22	767.6	65.2	18.4	56	ne	4	1.8		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.14	765.5	30.24	768.1	51.5	10.8	90	sw.	2	0.9		0	7 ks; fg		sw.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.03	458.0	30.01	762.2	25	— 3.9	80	nw.	23	10.3		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.34	745.2	30.13	765.3	48.0	8.9	77	calm	0	0		0	0			0	0	clear	G. O. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.22	742.2	29.89	759.2	49.8	9.9	86	sw.	11	4.9		3 c	2 s	w.		0	0	fair	M. H. Perry
Portland, Maine	30.03	762.7	30.08	764.0	47	8.3	66	sw.	10	4.5		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.91	759.7	29.98	761.5	48.0	8.9	100	calm	0	0			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.86	631.4	29.96	761.0	49	9.4	47	sw.	3	1.3		2 ck	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.15	765.8	30.18	766.6	55	12.8	52	w.	10	4.5		0	0			0	0	clear	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.61	752.1	29.96	761.0	58	14.4	65	nw.	2	0.9			sk.			0	0	dense smoke	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.43	747.5	29.98	761.5	49	9.4	93	ne.	1	0.4		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	58.0	14.4	75	calm	0	0			hz.			0	0	dense haze	J. A. Barwick
St. Louis, Missouri	29.41	747.0	30.02	762.5	64.5	18.1	70	w	17	7.6		4 c	sk.	w.		0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.54	750.3	29.57	751.1	34	1.1	83	s.	8	3.6			10 s			0.10	2.5	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.13	739.9	29.98	761.5	43.5	6.4	79	nw	6	2.7		3 c	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.25	742.9	30.12	765.0	29	— 1.7	88	nw.	3	1.3			10 ks		nw.	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.71	653.0	29.96	761.0	53	11.7	28	calm	0	0		0	hz.			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.89	759.2	29.96	761.0	64.0	17.8	84	n.	2	0.9		0	1 k		nw.	0	0	clear	F. R. Day.
Sanford, Florida	30.10	765.4	30.15	765.8	73.5	23.1	84	ne.	5	2.2		0	0			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.34	745.2	30.01	762.2	51	10.6	66	sw.	15	6.7		0	0			0	0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.20	767.1	30.23	767.8	54.0	12.2	62	nw.	10	7.2		5 k	0	nw		0	0	fair	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	54	12.2	93	w.	6	2.7			fg.		s.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.14	765.5	30.22	767.6	64.5	18.1	90	n.	4	1.8		2 c	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.43	671.3	30.04	763.0	31	— 0.6	81	w.	3	1.3			sk.			0	0	dense smoke	S. W. Morrison.
Shreveport, Louisiana	29.91	759.7	30.15	765.8	58.8	14.9	81	se.	1	0.4		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	733.5	30.10	764.5	59	15.0	75	calm	0	0		0	9 s			0	0	cloudy	W. M. Mattingly
Sitka, Alaska	29.69	754.1	29.75	755.6	51	10.6	83	e.	0	2.7		0	0			0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.67	753.6	30.14	765.5	56.4	13.6	86	e.	3	1.3		6 ck	0	n.		0	0	fair	J. B. Campbell.
Smithville North Carolina	30.21	767.3	30.25	768.3	67.0	19.4	84	ne.	4	1.8		1 c	hz.			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.06	763.5	36	2.2	82	calm	0	0			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.95	760.7	57.5	14.2	84	sw.	8	3.6		2 c	0	w.		0	0	clear	T. B. Jennings.
Starkville, Miss																			O. Dill.
Stockton, Fort, Texas	27.07	687.6	30.03	762.7	63	17.2	68	se.	8	3.6		10 cs	0			0	0	cloudy	Louis Dorman.
Thomas, Camp, Arizona					62	16.7	63	calm			0		10 s			inap.	inap.	cloudy	R. C. Lord.
Toledo, Ohio	29.27	743.4	29.95	760.7	52	11.1	59	s.	10	4.5		4 cs	4 k	nw.	sw.	0	0	threatening	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.75	755.6	29.78	756.4	39	3.9	82	sw.	4	1.8			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	34	n.			1	0	5 s			0	0	fair	E. B. Montgomery.
Vicksburg, Mississippi	29.95	760.7	30.20	767.1	61.0	16.1	65	e.	11	4.9		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.12	765.0	30.24	768.1	54.8	12.7	87	s	4	1.8			10 k		sw.	0	0	cloudy	B. M. Pursell.
West Las Animas, Colorado	26.12	663.4	29.94	760.5	44.5	6.9	82	w.	5	2.2		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.19	766.8	30.24	768.1	66.0	18.9	90	se.	1	0.4		0	9s; sk			0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.74	730.0	30.03	762.7	46.2	7.9	81	nw.	4	1.8		hz.	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.73	755.1	29.87	758.7	72.6	22.0	83	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					76	24.4		n.			3		8 n		n.	0.60	15.2	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.08	560.8			53.6	12.0	79	sw.	2	1			10 s		sw.	0.008	0.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5	76.7	24.8	87	n.	1	0.4		5 c	0			0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	78	25.6	82	e.			2	5 ck	5 k	e		0.560	14.2		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	77	25.0	89	calm			0	1 ck	3 ks	calm	calm	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	90	se.			1	7 cs		se.		0.12	3.0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	29.90	759.4	29.97	761.2	28.5	— 1.9	94	nw.	17	7.6		4 k	5 s	n.	nw.	0	0	cloudy	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 39° 11′, E. 23° 15′	30.13	765.3	70	21.1	70	nne.			4		9	nne.				2	n.	d. clouds.
H. M. S. Coquette, N. 36° 48′, E. 10° 20′	30.11	764.8	79	26.1		ene.			1		0					sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.13	765.3	78	25.6	86	nne.			4		7	nne.						d. clouds.
H. M. S. Flamingo, N. 50° 46′, W. 56° 00′	29.74	755.4	43	6.1	92	sw.			4		6	s.				6	s.	d. clouds.
H.P. M. S. Duoro, St. Thomas, Gulf of Guinea	29.97	761.1	79.2	26.2	82	se.			2		10			2 h'r	2 h'r	3	sw.	showery.
H. M. S. Iris, off Port Said, Egypt	29.97	761.2	82	27.8	79	ene.			3		0							blue sky.
H. M. S. Tenedos, Green Bay. N. F	29.90	759.4	45	7.2	76	s.			2		0							blue sky.
H. M. S. Tyne, N. 13° 07′, W. 23° 35′	30.08	764.0	81	27.2	78	ene.			4		8		ne.			2	ne.	misty.
U. S. Navy Yard, Portsmouth, N. H *	30.07	763.8	48	8.9	70	wnw.	12	5.4			0			0	0			clear.
U. S. S. Alliance, Eastport, Maine	30.04	763.0	52	11.1	93	wsw.			2		0			0	0	sm'h		clear.
U. S. S. Galena, N. 33° 25′ W. 72° 48′			78	25.6	95	e.			3		5		se.			long	se.	fair.
U. S. S. Jamestown, N. 22° 24′, W. 30° 10′	30.20	767.1	78	25.6	78	ene.			4		2					sm'h	e.	fair.
U. S. S. Kearsarge, Lisbon, Portugal	30.29	769.4	69	20.6	65	nne.			6		5?		ne.					cloudy?
U. S. S. Lancaster, Cadiz, Spain	30.08	764.0	73	22.8	95	sw.			2		0					sm'h		clear.
U. S. S. Portsmouth, Newport, R I	30.19	766.8	51	10.6	93	wsw.			2		0							light haze.
U. S. S. Powhatan, St. Pierre, N. F	30.11	764.8	56	13.3	87	sw.			3		0							clear.
U.S. S. Quinnebaug, Leghorn, Italy	30.20?	767.1?	73	22.8	95	sw			1		0					sm'h		clear.
U. S. S. Saratoga, Bristol, R. I	30.20	767.1	54	12.2	74	wsw			3		1		wsw.			sm'h		clear.
U. S. S. Swatara, N. 46° 02′, W. 62° 10′	30.11	764.8	51	10.6	86	sw.			3		2		sw.	0	0	mod.	wsw.	clearing.
U. S. S. Vandalia, Boston, Mass	30.15	765.8	53	11.7	54	nw.			3		0							clear
U. S. S. Yantic, N. 41° 13′, W. 66° 12′	30.24	768.1	58	14.4	76	w.			4		2					sm'h		fair.
S. S. British Crown, N. 49° 39′, W. 30° 54′†	29.98	761.5	66	18.9		s.			6		10			11 h'r	11 h'r	high	sw.	misty.
S. S. British Prince, N. 46° 16′, W. 53° 33′			50	10.0		sw.			4		2		sw.	0	0	h'vy	wsw.	clear.
S. S. Ohio, Philadelphia, Pa			49	9.4	100	wsw.			1		9		w.	0	0			clear.?
S. S. Circassian, N. 56° 00′, W. 35° 59′	29.43	747.5	50	10.0	93	sw.			5		8		sw.			4	sw.	d. clouds.
S. S. Grecian, N. 52° 03′ W. 53° 24′	29.72	754.9	45	7.2	92	sw.			5		10		sw.	1 h'r	1 h'r	light	sw.	cloudy.
S. S. Nova Scotian, N. 48° 24′, W. 48° 19′	29.98	761.5	54	12.2		w.			3		8		wsw.			long	sw.	fair.
S. S. Prussian, Greenock, Scotland	29.34	745.2	58	14.4		nw.			5		10		nw.	4 h'r	4 h'r			cloudy.
S. S. Scandinavian, N. 47° 35′, W. 44° 29′	29.94	760.5	51	10.6		wnw.			2		0			8 h'r	8 h'r	cross	var.	misty.
S. S. Jason, N. 49° 44′, W. 21° 01′†	30.09	764.3	57.2	14.0		nw.			6		7 k					5	wnw.	cloudy.
S. S. Alvo, Port Limon, Costa Rica, W. I*	29.94	760.5	76	24 4		calm			0		10		calm	2 h'r	2 h'r	long	ene.	overcast.
S. S. Avilla, Kingston, Jamaica. W. I*†	30.05	763 3	79	26.1		calm			0		0			rain	rain	sm'h		
S. S. Assyria, N 40° 13′, W. 37° 46′	30.35	770.9	72	22.2	76	ssw.			4		4		sw.	0	0	1		fine.
S. S. Devonia, N. 47° 20′, W. 43° 33′ *†	29.96	761.0	51	10.6		w.			3		0					long	sw.	clear.
S. S. Dorian, N. 38° 33′, E 5° 26′	30.09	764.3	74	23.3		s.			3		4		sw.	0	0	sm'h		fine.
S. S. Furnesia, N. 52° 17′, W. 7° 12′†	29.77	756.1	62	16.7	83	wsw.			6		10		wsw.	4 h'r	4 h'r			cloudy
S. S. Gallia, N. 46° 51′, W. 37° 24′	29.90	759.4	65	18.3	100	var.			6		10			rain	rain	high	w.	rain squalls
S. S. Pavonia, N. 50° 23′, W. 19° 08′*	30.09	764.3	62	16.7	88	wsw.			4		8		w.	0	0	long	nw.	fair.
S. S. Canada, N. 49° 30′, W. 23° 38′*	30.19?	766.9?	57.2	14		sw.			4		10			0	0	r'gh	sw.	covered.
S. S. France, N. 40° 26′, W. 69° 43′†	30.21	767.3	59.0	15		wnw.			2		*2		nw.	0	0	sm'h	nw.	
S. S. Wisconsin, N. 49° 41′, W. 35° 30′*	29.82	757.4	61	16.1		wsw.			4		8		wsw.	14 h'r	14 h'r	high	w.	cloudy.
S. S. Wyoming, N. 42° 15′ W. 62° 48′	30.22	767.6	52	11.1		nnw.			1		2		n.	0	0	mod.	wsw.	fine.
S. S. Bohemia, N. 50° 18′, W. 1° 22′ †	29.81	757.2				sw.			5		8		sw.	2 h'r	2 h'r	long	wsw.	cloudy.
S. S. Gellert, Hamburg, Germany	29.75	755.6	70	21.1	66	wnw.			4		4?		nw.	4 h'r	4 h'r			covered.?
S. S. Silesia, N. 49° 52′, W. 11° 06′			59.3	15.2		wsw.			6		8		wsw.	0	0	h'vy	w.	stormy.
S. S. Westphalia, N. 50° 42′ W. 26° 15′	29.90	759.4	60	15.6	94	sw.			6		10?		w.	15 h'r	15 h'r	r'gh	sw.	fair?
S. S. Rhaetia, N. 46° 45′, W. 43° 44′ *	29.99	761.8	54	12.2		wnw.			4		2		wnw.	0	0	mod.	wsw.	clear.
S. S. City of Paris, N. 50° 35′, W. 30° 30′*	29.95	760.7				wsw.			6		10		wsw.	24 h'r	24 h'r	r'gh	sw.	raining.
S. S. Nessmore, Baltimore, Md*	30.27	768.8	61	16.1	94	var.			3		0			0	0	sm'h		clear.
S. S. Archimedes, N. 50° 29′, W. 12° 39′	29.89	759.2				wnw.			5–6		4		wnw.	½ h'r	½ h'r	high	wnw.	light show'rs
S. S. Hevelius, N. 49° 39,′ W. 5° 00′			60	15.6		wnw.			8		7		wnw.	0	0	mod	w.	cloudy.
S. S. Sirius, N. 13° 27′, W. 26° 05′	30.05	763.3				ene.			2		5?		ene.	0	0	cross	ne., s.	clear?
S. S. Rio Grande, N. 38° 13′, W. 74° 19′†	30.32	770.1	66	18.9		ssw.			2		5		ssw.	0	0	small	se.	d. clouds.
S. S. Chalmette, N. 25° 12′, W. 84° 00′ †	30.13	765 3	81	27.2		ese.			3		3		se.	½ h'r	½ h'r	sm'h		clear.
S. S. New York, N. 38° 20′, W. 74° 30′*†.	30.24	768.1	68	20.0		s.			4		5		sw.	0	0	sm'h		fair.
S. S. Alleghany, Baltimore. Md †	30.25	768.3	58	14.4		calm			0		8			0	0			cloudy.
S. S. Archimede, Gibraltar, Mediterranean†	30.09	764.3	82	27.8		s.			3		2		s.	0	0	sm'h	w.	clear
S. S. City of Merida, Vera Cruz, Mexico*†	30.04	763.0	82	27.8		nw.			1		10		nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. City of Washington, N. 23° 10, W. 84° 03′*†	30.05	763.3	80	26.7		e.			4		2		e.	0	0	sm'h		fine.
S. S. Cienfuegos, St. Jago, Cuba, W. I*	30.02	762.5	82	27.8		n			1		1			0	0			fine.
S. S. Canada, N. 49° 25′, W. 21° 50′			58	14.4		wsw.			6		10		sw.	sh'rs	sh'rs	mod.	var.	gloomy.
S. S. Denmark, New York, N. Y†	30.20	767.1	52	11.1		sw.			4		4			0	0			fair.
S. S. Egypt, N. 45° 36′ W. 41° 41′	30.01	762.2	63	17.2		nw.			4		10		n.	9 h'r	9 h'r	h'vy	sw.	light rain.
S. S. England, Liverpool, Eng	29.56	750.8				wsw.			7		8		wsw.	4 h'r	4 h'r			
S. S. Helvetia, N. 43° 54′ W. 51° 12′	30.14	765.5	66	18.9	84	w.			3		2		w.	3 h'r	3 h'r	h'vy	wnw.	clear.
S. S. America, Galloper Light, North Sea*	29.78	756.4	61.0	16.1	88	sw.			6		8		sw.	0	0	mod.	sw.	
S. S. Elbe, N. 40° 44′, W. 68° 48′	30.25	768.4	61.7	16.5	84	w.			3		0			0	0	sm'h	w.	clear.
S. S. Fulda, N. 43° 00′, W. 60° 44′	30.15	765.7	53.6	12.0	88	w.			4		6		w.	0	0	long	wsw.	fair.
S. S. Hohenstaufen, N. 4° 50′, W. 29° 42′	30.08	764.0	81.5	27.5	88	ese.			3		4		ese.	0	0	mod.	ese.	fair.
S. S. Oder, N. 45° 44′, W. 41° 49′	30.05	763.3	60.8	16.0		nnw.			4		10		wnw.	8 h'r	8 h'r	mod.	sw.	raining.
S. S. Ohio, off Ower s, Eng	29.71	754.6				wsw.			6		5		wsw.	4 h'r	4 h'r	cross	wsw.	fair.
S. S. Rhein, N. 41° 13′, W. 59° 57′	30.17	766.3	62.6	17.0		sw.			3		3?		sw.	0	0	mod.	sw.	cloudy.?
S. S. Salier, N. 50° 08′, W. 11° 18′*	29.92	760.0	60.8	16.0	59	wnw.			6		2		wnw.	1 h'r	1 h'r	high	wnw.	clear.
S. S. Strassburg, N. 49° 10′ W. 35° 15′	29.92	760.0	64.5	18.1	86	wsw.			4		8		wnw.	12 h'r	12 h'r	6	sw.	clearing.
S. S. Werra, N. 49° 57′, W 5° 00′	29.79	756.7	61.7	16.5		wnw.			5		10		wnw.	0	0	mod.	wnw.	fine.
S. S. Weser, N. 26° 49′, W. 88° 28′	30.20	767.1	80.6	27.0		ne.			5					0	0	mod.	ne.	fair.
S. S. City of Augusta, New York, N. Y.						nnw.			2		4		w.	0	0			fine.
S. S. Muriel, Saint Thomas, W. I	29.98	761.5	84	28.9		ne.			1		0			0	0	sm'h		clear.
S. S. Orinoco, Bermuda, W. I *†	30.12	765.0	78	25.6		ne.			3		8		ne.	3 h'r	3 h'r			cloudy
S. S. Belgenland, N. 49° 55′, W. 28° 00′			59	15.0	100	ssw.			7		10		sw.	5 h'r	5 h'r	long	nw.	overcast.
S. S. Pennland, New York, N. Y			59	15.0	94	w.			3		1		w.	0	0			clear.
S. S. Vaderland, Antwerp, Belgium			63	17.2		wsw.			6		5		nw.	2 h'r	2 h'r			showery.
S. S. Waesland, N. 50° 27′. W. 1° 08′	29.78	756.4	63	17.2		sw.			6		5		wsw.	½ h'r	½ h'r	mod	wsw.	squally.
S. S. P. Caland, N. 40° 32′ W. 70° 15′	30.23	767.8	59.7	15.4	79	w.			3		2		sw.					clear.
S. S. W. A. Scholten, N. 49° 54′, W. 18° 56′	30.16	766.1	59.9	15.5	89	w.			6		7		nw.	4 h'r	4 h'r	6	w.	squally.
S. S. Caracas, N. 22° 48′, W. 69° 01′ *†	30.10	764 5	83	28.3	87	ne.			5		2		ne.	½ h'r	½ h'r	mod.	ne.	squally.
S. S. Valencia, N. 23° 36′, W. 69° 11′ †	30.12	765.0	84.5	29.2	81	ene.			4		3		se.	0	0	light	ese.	clear.
S. S. State of Nevada, Glasgow, Scotland			56	13.3		w.			5		5		wnw.	3 h'r	3 h'r			fair.
S. S. State of Nebraska, N. 51° 30′, W. 36° 21′*†	29.78	756.4	54	12.2		wsw.			5		2		w.	0	0	high	wsw.	hazy.
S. S. Thingvalla, N. 55° 18′, W. 34° 16′†	29.63?	752.6?	51.8	11 0		w			4		4		w.	4 h'r	4 h'r	h'vy	wnw.	fair.
S. S. Romano, N. 43° 17′, W. 46° 44′			60	15.6		nnw.			4		3?		nnw.	4 h'r	4 h'r			dull.?
S. S. Salerno, N. 49° 35′. W. 8° 50′ *†	29.98	761.5	60	15.6		nw.			4		3		nw.	0.5	13.	r'gh	nw.	fair.
S. S. Lake Huron, N. 56° 31′. W. 20° 58′	29.67	753.6	52	11.1		s.			2		10		wsw.	0	0	sm'h	nw.	cloudy.
S. S. Lake Manitoba, Belle Isle Strait, N. F	29.70	754.4	47	8.3		ssw.			6		8		sw.	0	0	short	sw.	cloudy.
S. S. Daniel Steinmann, N. 50° 41′, E. 0° 26′*†	29.70	754.4	63	17.2		wsw.			6		10			0	0			squally.
S. S. Saxon, N. 41° 20′, W. 71° 00′ †	30.16	766.1				nw.			2		0			0	0			clear.
S. S. Britannic, N. 48° 20′ W. 34° 10′	29.97	761.2	60	15.6		nw.			4		10		w.			high	sw.	raining.
S S. Celtic, N. 44° 59,, W. 53° 05†			61	16.1	66	nw.			1		2		nw.	8 h'r	8 h'r	h'vy	w	clear.
S. S. Algiers, N. 32° 33′, W. 77° 51′						ne.			1							sm'h		fair.
Bk. Arda, N. 46° 42′. W. 14° 59′†	30.16	766.1				wnw.			2		2?		wnw.	0	0	h'vy	wnw.	cloudy?
Bk. Alpheus Marshall, N. 25° 55′, W 26° 20′*†	30.19	766.8	77	25.0	95	nne.			3		5		nne.	2 h'r	2 h'r	sm'h		fair.
Bk. Ariadne, N. 43° 33′, W. 55° 53′	30.24	768.1	60	15.6	65	wnw.			2		3		wnw.	0	0	mod	wsw.	clear.
Schr. Arthur Burton, Lincolnville, Maine†	29.99	761.7				sw.			2		0			0	0	sm'h		clear.
Schr. Abbie H. Gheen, Cape Ann, Mass †.	30.12?	765.0?	60	15.6		wsw.			4									clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Antonio Lopez, Santander, Spain	30.15	765.8	61	16 1	77	w.			6		8			5 h'r	5 h'r	mod.	w.	cloudy.
Bk. Adelaide, N. 8° 37′, W. 33° 36′ *†	30.10	764.5				ne.			6		10		ene.	2 h'r	2 h'r	mod.	sse.	squally.
Bg. Belle of the Bay, N. 27° 15′, W. 88° 20′†	30.13	765.3				ne.			6		3		ne.	0	0	short	ne.	clear
S. S. Cannonbury, N. 33° 26′, W. 70° 49′*†	30.23	767.8				var.			1		3		w.	½h'r	½h'r	light	se.	clear.
Bk. Ceylon, N. 27° 36′, W. 40° 43′†	30.10	764.5	80	26.7	82	s.			5		0?		se.	1½h'r	1½h'r	h'vy	sse.	clear.?
Schr. C. R. Flint, N. 22° 24′, W. 55° 15′ †	30.01	762.2	83	28.3		sw.			2		5	ne.	sw.	0	0	long	ne.	fair.
Bk. Don Justo, N. 45° 21′, W. 53° 25′						nw.			1		0			0	0	mod.	ssw.	clear.
Bk. Childwall, N. 9° 05′, W. 24° 10′			85	29.4	76	sw.			2		10		sw.	0	0	sm'h		overcast.
Bkt. David A. Preston, N. 43° 30′, W. 68° 00′						nw.			5		0			0	0	mod.	sw.	
Bk. Diamant, N. 41° 27′, W. 48° 11′	30.10	764.5	58.1	14.5	94	ne.			2		8		w.	7 h'r	7 h'r	5	sw.	covered.
S. Dynomine, N. 39° 40′, W. 15° 00′	30.37	771.4	66.5	19.2	82	nnw.			5		7			0	0	mod.	nw.	misty.
S. David Stewart, N. 30° 03′, W. 68° 08′†	30.15	765.8	92?	33.3?		var.			1		3		ese.	0	0	long	nne.	clear.
S. E. J. Spicer, Antwerp, Belgium	29.67	753.6	62	16.7	83	sw.			6		10		sw.	rain	rain			cloudy
Schr. Edith R. Seward, N. 33° 15′, W. 77° 09′ †	30.26	768.6	78	25.6		ene.			1		3		e.	0	0	mod.	e.	clear.
Bk. E. D. Bigelow, Galveston, Texas†	30.16	766.1	78	25.6		nne.			2		3		se.	0	0			foggy.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass †	30.19	766.8	57	13.9		w.			4		0			0	0	sm'h		clear
S. Gatherer, N. 27° —′, W. 37° 40′*	30.18	766.6	80	26.7	82	var.			3		7		var.	2 h'r	2 h'r	chop		fair.
Bg. George, Salinas, Porto Rico, W. I *†	30.03	762.7	82	27.8		ne.			1		0			0	0			clear.
Bk. Galeon, N. 25° 48′, W. 22° 36′†	30.18	766.6	76	24.4		ne.			3		2		se.	0	0		var.	misty.
Bk. Grey Eagle, N. 8° 46′, W 32° 24′						sw.			1		10		sw.	1 h'r	1 h'r	short	ssw.	cloudy.
S. Hedwig, N. 24° 58′, W. 25° 16′	30.24	768.0	78.6	25.9	83	ne.			3		9		var.	1 h'r	1 h'r	3	e.	overcast.
Bk. Johanne, N. 44° 59′, W. 52° 12′			55	12.8		nw.			2		8		n;nw	0	0	mod.	nw.	fine.
Schr. Jennie N. Huddell, N. 35° 00′ W. 75° 28′†	30.25	768.3	77	25.0	91	calm			0		2		se.	0	0	long	e.	clear.
Bk. John H. Pearson, N. 39° 39′, E. 0° 48′*†						ssw.			3				w.			sm'h		clear.
Schr. Jas. Slater, N. 14° 00′, W. 54° 30′†	30.05	763.3				ne.			4		5		e.	0	0	mod.	ne.	
Bg. Josefa, N. 46° 35′, W. 41° 50′ †	30.00	762.0				nw.			5		0		wnw.	10 h'r	10 h'r	h'vy	wsw.	clearing.
Bkt. Kryolith, N. 45° 47′, W. 53° 06′ *†	30.15†	765.8†				wnw.			3		0					h'vy	var.	clear.
Bk. Lady Hincks, N. 22° 32′, W. 43° 10′ *†	30.10	764.5							2–5					rain	rain		nw.	squally.
Bg. L. & W. Armstrong, N. 29° 05′, W. 68° 12′ *†	30.14	765.5				ene.			1		1		ene.	0	0	sm'h	ne.	fine.
S. S. Madrid, Taganrog, Russia †	29.98	761.5	60	15.6	76	nne.			5		4		n.	0	0			fair.
Bk. Matilda C. Smith, N. 38° 30′, W. 69° 13′*†	30.26	768.6				w.			3		2		w.	0	0	mod.	var.	fine.
Bk. Orpheus, N. 38° 40′, W. 60° 58′	30.22	767.6	74	23.3		calm			0	4 cs	0	sw.		0	0	sm'h		fair.
Schr. Rollin Sanford, off Cape San Blas, Fla†	30.18	766.6				ne.			6		0			0	0	sm'h		clear.
Bk. Rosalie, N. 40° 38′, W. 13° 44′*†	30.31	769.9				n.			5		2		nw.	1 h'r	1 h'r	long	w.	clear.
Schr. S. B. Hubbard, N. 32° 56′, W 78° 01′†	30.21	767.3	73	22.8		ne.			1				e.	0	0	long	e.	fine.
Bk. Saga, N. 56° 08′. E. 16° 34′			58	14.4		var.			3–4		10		sw.	7 h'r	7 h'r	sm'h		foggy.
S. Salisbury, N. 40° 00′, W. 59° 03′	30.14	765.4	65.1	18.4	83	n.			3–4		0		n;nw	0	0	mod.	nw.	fair.
Bgt. Sunlight, N. 28° 03′, W. 70° 30′*†	30.16	766.1				ne.			3		2		ne.	0	0	long	e.	clear.
Bk. Samuel B. Hale, N. 35° 30′, W. 55° 56′*†	30.35?	770.9?				sw.			4				w.	rain	rain	long	w.	light rain.
Bk. Sunbeam, N. 38° 25′, W. 68° 55′†	30.23	767.8	63	17.2	83	nw.			4		5		nw.	0	0	sm'h		fair.
Bk. Scud, N. 32° 01′, W. 61° 36′*†	30.19	766.8	83	28.3		s.			2		2		calm	0	0	long	nw.	clear
Bk. St. Lawrence, N. 22° 38′, W. 56° 49′*†	30.00	762.0				ene.			5				e.	0	0	mod.	ne.	clear.
Bk. Tuck Sing, N. 39° 51′, W. 73° 52′						wsw.			3		5		wsw.	0	0	sm'h		fine.
S. S. Tower Hill, N. 48° 51′, W. 29° 02′*†	30.05	763.3				sw.			5		5?		s.			r'gh	w.	overcast.?
Schr. Viola Reppard, Brunswick, Ga†	30.03	762.7	76	24.4		nnw.			1		0			0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.08	764.0	77	25.0	82	ese.			2		6	ese.				1	sse.	d. clouds.
H. M. S. Opal, S. 14° 12′, W. 7° 42′	30.19	766.8	71	21.7	85	se.			4		4	wnw.				5	sse.	blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	53.2	11.8	90	s.			3		10							overcast.
H. P. M S. Rainha de Portugal, Landana, L. Guinea	29.91	759.7	77.0	25.0	77	ssw.			4		4	ssw.		0	0	3		d. clouds.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.08	764.0	54	12.2	80	se.	15	6.7			10		se.	0	0	long	se.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay *	30.06	763.5	52	11.1	86	se.			4		10					mod.		cloudy.
S. S. Teneirs, S. 9° 15′, W. 32° 00′	30.12	765.0	78	25.6	78	ese.			6	cs	7 nk			0	0	2	ese.	gloomy.
Bk. Aureola, S. 8° 04′, W. 34° 50′†	29.98	761.5	93	33.9		ese.			5		2		se.	0	0	mod.	se.	clear.
Bk. E. L. Pettingill, S. 28° 24′, W. 40° 48′*†	30.00	762.0	68	20.0		n.			6		8		nnw.	0	0	r'gh	s.	cloudy.
Bk. Great Surgeon, S. 39° 29′ E. 14° 45′*†	30.22	767.6	59	15.0		nne.			2		9		n.	0	0	mod.	wsw.	cloudy.
Bk. Godeffroy, S. 59° 45′, W. 69° 03′	29.55	750.6	38.3	3.5	93	wnw.			4		8		wnw.	18 h'r	18 h'r	mod.	nnw.	cloudy
Bk't. Louise Adelaide, Buenos Ayres, La Platta†	30.09	764.3	54	12.2		se.			2		6		s.	8 h'r	8 h'r			fair.
Bk. Pilgrim, S. 29° 38′, E. 8° 30′*†	30.15	765.8				calm			0		10		calm	0	0	mod.	se.	cloudy.
Bgt. Willie, S. 17° 45′, W. 37° 15′*†	30.14	765.5	81	27.2		ne.			4		4		ne.	0	0	long	s.	fair.
Bk. Mohican, S. 22° 50′, W. 29° 30′	30.02	762.5	72.5	22.5		ese.			5		2			0	0	h'vy	sw.	fair.
S. S. Olbers, S. 13° 10′, W. 30° 30′	30.18	766.6	75	23.9	86	ese.			4		7		ese.	0	0	sl't	e.	fair.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.02	762.5	65	18.3		nw.			1		2							blue sky.
Bg. John Wesley, S. 6° 12′, W. 35° 02′*†	29.98	761.5	80	26.7		se.			5		3		se.	2 h'r	2 h'r	mod.	se.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 41° 30′, E. 139° 40′	30.10	764.5	62	16.7	83	wnw.			4		4	nw.				3	wnw.	squally.
H. M. S. Cleopatra, N. 40° 09′, E. 132° 58′	30.09	764.3	63	17.2	78	sw.			2		0					3	ssw	blue sky
H. M. S. Flying Fish, N. 37° 35′, E. 121° 29′	30.03	762.7	69.2	20.7	61	s.			2		1							blue sky
H. M. S. Magpie, N. 5° 56′ E. 116° 12′	29.90	759.4	81.5	27.5	77	ene.			2		10							overcast.
H. P. M. S. Tamega, Canton, China	30.05	763.3	81.5	27.5	69	nnw.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.22	767.6	64	17.8	78	calm			0		10			0	0			gloomy.
U. S. S. Essex, Roze Island, Corea	30.16	766.1	66	18.9	68	ese.			1		5					sm'h		fair.
U. S. S. Hartford, N 7° 48′, W. 83° 13′*	29.87	758.7	81	27.2	87	sw.			2		5			0	0	sm'h		
U. S. S. Juniata, N. 4° 48′, E. 106° 27′	29.90	759.4	84	28.9	100	s.			1		2			0	0	sm'h		fair.
U. S. S. Monocacy, N. 37° 22′, E. 123° 32′	30.12	765.0	68	20.0	74	sse.			2		2		calm			sm'h		fair.
U. S. S. Palos, Canton, China	30.06	763.5	80	26.7	62	n.			1		0							clear.
U. S. S. Pensacola, N. 21° 25°, E. 157° 37′*..	29.92	760.0	83	28.3	83	ene.			3		2		ene.	mod.	mod.	long	nne.	clear.
U. S. S. Richmond, Yokohama, Japan	30.18	766.6	65	18.3	84	nnw.			2		10		nw.	0	0			threatening.
S. S. Oregon, San Francisco, Cal.†	30.02	762.5	54	12.2	87	calm			0		7		nw.					fair.
S. S. Willametta, N. 40° 20′, W 124° 43′ †	29.99	761.7	57	13.9	94	ese.			2		10		se.	0	0	sm'h		foggy.
S. S. Ancon, N. 34° 14′, W. 119° 28′†	29.96	761.0	62	16.7	88	ese.			3		10					sm'h		foggy.
S. S. State of California, San Francisco, Cal.†	30.03	762.7	53	11.7	100	w.			1		10							overcast.
S. S. Queen of the Pacific, N. 40° 50′, W. 124° 35′ †	30.01	762.2	54	12.2		ne.			3		3			0	0	sm'h		foggy.
S. S. Victoria, N. 44° 06′, W. 124° 20′†	29.90	759.4	58	14.4	88	se.			2		10					light	sse.	foggy.
S. S City of New York, N. 28° 35′, W. 141° 38′†	30.03	762.7	72	22.2	90	wsw.			3		5?		nw.			mod.	nw	cloudy.?
S. S. City of Pekin, N. 32° 06′, E. 132° 45′†	30.16	766.1	71	21.7	80	ne.			3		2		n.	0	0	sm'h		clear.
S. S. City of Tokio, N. 23° 38′, E. 118° 47′†	30.11	764.8	78	25.6	86	ne.			5		4		ne.	0	0	small	ne.	fine.
S.S. City of Rio de Janeiro, N. 35° 08′, E. 157° 25′†	30.03	762.7	75	23.9	72	nnw.			5		2		ne.	0	0	h'vy	n.	clear.
S. S. Granada, Panama, Panama†	29.94	760.5	74	23.3	100	n.			1		5		n.	6 h'r	6 h'r	light	n.	rainy
S. S. San Blas, N. 15° 59′, W. 98° 47′†	29.98	761.5	81	27.2		sse.			4		9		s.	1 h'r	1 h'r	mod.	ssw.	cloudy.
S. S. Zealandia, N. 27° 13′, W. 147° 29′†	29.97	761.2	77	25.0	95	sw.			3		0					mod.	w.	clear.
S.S. San Juan, N. 27° 32′, W. 115° 04′			66	18.9		nw.			3		hz.		nw.	0	0	light	nw.	fine.
S. Armenia, N. 1° 06′, W. 120° 20′*	29.91	759.7	75	23.9	86	se.			3		1			0	0	mod.	sse.	clear.
S. Storm King, N. 15° 29′ W. 119° 34 *†	29.97	761.2				ne.			5		2		ne.	0	0	sm'h	n;s	
S St. David, N. 38° 53′, W. 124° 30′ *†	30.07	763.8	63.3	17.4	94	se.			3		10		se.	0	0	long	sw.	dense fog.
S. E. B. Sutton, N. 21° 00′, W. 120° 30′*†	29.99	761.7	74	23.3	86	nne.			1		2		ne.	0	0	sm'h		
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.93	760.2	78.3	25.7	89	se.			2		8					sm'h		d. clouds.
H. M. S. Mutine, S. 1° 30′, W. 82° 50′	30.00	763.5	64	17.8		s.			2		10					3	s	overcast.
U. S. S. Iroquois, Callao, Peru	30.15	765.8	61	16.1	88	sse.			2		10							cloudy.
U. S. S. Lackawanna, Iquique, Peru *	30.11	764.8	60	15.6	77	calm			0		10							cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
U. S. S. Onward, Callao, Peru*†	30.18	766.6	59	15.0	88	sse.			2		10		sse.					cloudy.
U. S. S. Wachusetts, Mollendo, Peru*	30.13	765.3	59	15.0	100	ene.			1		5		calm			long	se.	fair.
S. S. City of Sydney, Sydney, N. S. W *†	30.00	762.0	58	14.4	88	se			4		8 k		se.					cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.17	766.3	66	18.9		se.			4					0	0	long	se.	dense fog.
S. David Crockett, S. 52° 54′, W. 91° 43′*	29.60	751.8	46.5	8.1	80	nne.			5		9			0	0	long	wnw.	squally.
S. Sovereign of the Seas, S. 21° 35′, W. 87° 20′*†	30.26	768.6	65	18.3	90	s.			2		10		s.	4 h'r	4 h'r	long	sw.	misty.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 08′, E. 57° 29′	30.16	766.1				ese.			1		4	ese.						d. clouds
H. M. S. Euryalus, Zanzibar, Zanzibar	30.00	762 0	79	26.1	82	sse.			1		2	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.95	760.7	80	26.7	91	se.			1		2	ese.				2	sse.	blue sky.
H. M S. Woodlark, Bassorah, Turkey	29.91	759 7	94.5	34.7	56	nnw.			2		0							misty.
S. S. Galatia, Calcutta, India†	29.74	755.4	88	31.1	88	nne.			2		7		ssw.	3 h'r	3 h'r			cloudy.
S. S. Benledi, N. 14° 45′, E. 43° 30′*	29.75	755.6	91	32.8	75	wnw.			2–3		2			0	0			

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

UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 28, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.6	77.0	25.0	80	s.			1		0			0	0	clear	Roziere.
Algiers			30.02	762.5	80.6	27.0	60	n.			6		8			inap.	inap.	very cloudy	Thève.
La Calle			30.01	762 3	83.5	28.6	63	ne.			3		1			0	0	very fair	Fonfrède.
Tunis			30.05	763.3	81.3	27.4	44	e.			3		0			0	0	clear	Delord.
Saida			30.08	763.9															Pérés.
Tebessa			30.05	763.3	80.6	27.0	38	w.			2		0			0	0	clear	St. Martin.
Geriville					84.2	29.0	29	nw.			2		1			0	c	very fair	Forfert.
Laghouat			30.12	765.0	84.0	28.9	30	s.			4		0			0	0	clear	Abraham.
Biskra			30.07	763.8	87.8	31.0	67	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.36	771.1	50.1	10.1	84	sse.	4	1.8			1 s			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.23	767.8	30.32	770.1	49.2	9.6	70	se.	5	2.2			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.27	743.5	29.80	757.0	68.2	20.1	77	se.			2		8			0.299	7.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.02	737.1	29.78	756.3	59.0	15.0	83	w.	10.5	4.7			10			0.012	0.3		Dr. Wierzbiski
Eperies	28.95	735.4	29.81	757.1	63.5	17.5	66	s.			1	cs	9 s			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.47	723.2	29.85	758.2	70.5	21.4	42	s.			4		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.55	725.2	29.88	759.0	54.7	12.6	87	wsw.			1		10			0.020	0.5	raining	The Staff.
Lemberg	28.85	732.7	29.81	757.1	64.8	18.2	63	s.			4		4			0	0		Dr. T. Stanecki.
Pola	29.71	754.6	29.82	757.3	72.3	22.4	77	sse.			4		8			0	0		I. R.Hydrographic Office.
Szathmar	29.38	746.3	29.83	757.7	70.5	21.4	50	s.			5		5			0	0		Joseph Midlinszky, S. J
Szegedin	29.55	750.6	29.82	757.5	68.7	20.4	61	se.			2		8			0	0		Karl Stc..cel.
Trieste	29.74	755.4	29.84	757.9	71.2	21.8	64	se.			1		10			0.370	9.4		Royal Academy.
Vienna	29.17	741.0	29.88	759.0	57.7	14.3	84	nw.			1		10			0.020	0.5		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.34	745.2	29.43	747.5	54.0	12.2	87	nw.	12	5.4			9			0.110	2.8	overcast	W. Boswell.
Armagh, Observatory	29.30	744.2	29.54	750.3	54.0	12.2	90	s.	8	3.6			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.57	751.1	57.5	14.2	72	w.	21	9.4			4					d. clouds	John Hartnup.
Bolton, Sharples	29.05	737.9	29.57	751.1	54.3	12.4	91	sw.	18	8.0			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.14	740.1	29.54	750.3	57.8	14.3	72	sw.			4		5			1.24	31.5	d. clouds	McLandsborough&Preston
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	82.0	27.8	75	se.			3		8					overcast	Corpl. W. I. Cull, A.H.C
Cardington	29.53	750.0	29.64	752.8	64.0	17.8	61	w.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.50	749.3	29.67	753.6	60.7	15.9	62	w.			1		6					d. clouds	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.46	748.3	29.68	753.9	58.6	14.8	96	wsw.			4		10					raining	The Staff.
Fort Napier, Natal	27.64	702.0	29.86	758.4	73.2	22.9	55	e.			1		8					gloomy	C. Stares, A.H.C.
Freetown, Sierra Leone	29.57	751.1	29.80	756.9	86.0	30.0	76	n.			1		4					d. clouds	J. W. Smith.
Galway, Queen's College																			Wm. Ryan.
Gibraltar, Mediterranean	29.95	760.7	30.00	762.0	75.4	24.1	94	nw.			5		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.30	744.2	29.50	749.3	55.4	13.0	84	w.			3		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.50	749.3	29.66	753.4	63.8	17.7	59	sw.			5		8					d. clouds	The Stan.
Guernsey	29.56	750.8	29.85	758.2	56.0	13.3	94	wsw.			3		10					overcast	A. Collenette, F. M. S
Kew, Observatory	29.63	752.6	29.67	753.6	58.8	14.9	65	w.	16	7.2			6					d. clouds	The Staff.
Leicester, Museum	29.34	745.2	29.59	751.6	59.0	15.0	73	sw.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	78.0	25.6	56	w.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	83.5	28.6	78	e.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.10	739.1	29.62	752.3	57.3	14.1	84	sw.			4		5					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.44	747.8	29.66	753.4	60.6	15.9	65	wsw.			4		6					d. clouds	The Staff.
Plymouth	29.60	751.8	29.68	753.9	57.9	14.4	58	sw.			3		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.35	745 5	29.45	748.0	53	11.7	90						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.90	759.4	29.96	761.0	78.0	25.6	54	ne.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.28	743.7	29.56	750.8	60.1	15.6	79	nw.			2		2			0.62	15.7	d. clouds	W. F. Cooper.
Silloth Rectory	29.49	749.0	29.52	749.8	57.0	13.9	85	w.			3		8			0.215	5.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.57	751.1	56.0	13.3	77	w.	20	8.9			6					d. clouds	W. C. Carlisle.
Strathfield Turgiss					59.6	15.3	74	w.			1.0		7					d. clouds	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	29.59	751.6	29.68	753.9	61	16.1	88	sw.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.61	752.1	29.64	752.8	54.6	12.6	90	nw.	16	7.2			10			blank	blank	raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.01	762.2	74.1	23.4	61	w.	8.7	3.9			6 n		w.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.73	755.1	29.76	755.9	49	9.4	93	sw.	15	6.7			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.80	758.4	29.90	759.4	55	12.8	88	sw.	18	8.0			10 n		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.75	755.6	29.81	757.2	51	10.6	90	sw.	8	3.6			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.77	756.1	29.95	760 7	42.5	5.8	92	w.			1		10 s			0.299	7.6	overcast	Jas. Smith, M. A.
Dalhousie, N. B																0.02	0.5		H A. Johnson.
Edmonton, N. W. T	27.84	707.1			33	0.6	51	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.80	750.9	29.82	757.4	47	8.3	93	nw.	8	3.6			10			0.24	6.1	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.34	745.2	30.21	767.3	29	—1.7	100	sw.	1	1.8			10 ks		w.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.70	755.9	29.82	757.4	55.0	12.8	88	sw.	7.0	3.1			10 ck		sw.	0	0	overcast	Prof.Thos. Harrison
Grand Manan, N. B	29.82	757.4	29.87	758.7	57	13.9	93	s.	2.1	0.9			10 s		sw.	0	0	threatening	J. Chipman Seeley
Granton, Ontario	29.02	737.1	30.16	766.1	35.0	1.7	100	calm	0	0		8 cs	0	w.		inap.	inap.	d. clouds	Jas. Grant.
Halifax, N. S*	29.86	758.4	29.99	761.7	58	14.4	87	s.	7	3.1		10 k	0	sw.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.68	753.9	30.07	763.8	56.5	13.6	84	sw.			1	9 cs	0	sw.		0	0	d. clouds	Geo. Dickson, B. A.
Kingston, Ontario*	29.70	754.4	30.04	763.0	45	7.2	70	n.	4	1.8		5 ck	0	w.		inap.	inap.	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.98	761.5	30.02	762.5	54.6	12.6	86	w.			5	4 c	0			0	0	d. clouds	C. H. Rigby.
London, Ontario	29.23	742.4	30.16	766.1	37.7	3.2	77	calm	0	0		1 c	4 ks			0.13	3.3	d. clouds	E. B. Reed.
Medicine Hat	27.82	706.6	30.20	767.1	31	— 0.6	92	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.76	755.9	29.97	761.2	44	6.7	83	nw.	7	3.1			10 s			0.32	8.1	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.76	755.9	30.01	762.2	41.1	5.1	92	nnw.				0	6 ks			0.05	1.3	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.30	745.7	30.07	763.8	39	3.9	89	nw.	14	6.3		2 k	5 n	w.	w.	0.05	1.3	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.35	745.5	30.09	764.3	44.7	7.1	84	w.			1	2 c	3 k	w.		0.1	3.	d.clouds	Wm. O'Connor,M.A.
Port Dover, Ontario	29.43	747.5	30.14	765.5	41	5.0	91	calm	0	0		7 c	0	sw.		0.01	0.3	fair	H Morgan.
Port Stanley, Ontario	29.48	748.8	30.14	765.5	38	3.3	100	calm	0	0		2 c	0	calm		inap.	inap.	clear	M. Payne.
Qu Appelle, N. W. T	27.88	708.1	30.30	769.6	18	— 7.8	100	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.59	751.6	29.95	760.7	44	6.7	86	sw.	8	3.6			10 ks		sw.	0.11	2.8	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.59	751.6	30.00	763.5	35	1.7	96	W.	3	1.3			fg.			0.33	8.4	dense fog	W. H. McIntyre.
St. Andrews, N .B	29.70	755.9	29.81	757.2	56	13.3	93	sw.	7	3.1			10			0	0	cloudy	
St. John, N. B	29.72	754.9	29.87	758.7	53.5	11.9	96	s.	16	7.2			10 n			0	0	overcast	G. Hutchinson.
Saint John's, N. F	29.78	756.4	30.02	762.5	45	7.2	92	sw.			1	0	0			0.30	7.6	clear	The Commandant.
Saugeen, Ontario*	29.37	746.0	30.09	764.3	44	6.7	89	w.	16	7.2			10 ks					light rain	
Stratford, Ontario	28.82	732.0	30.14	765.5	37.4	3.0	95	calm	0	0			10 s			0.127	3.2	d. clouds	O. J. Macgregor, M. A
St. Pierre, N. F			30.08	764.0	53.6	12.0		w.			3					0	0		The Commandant.
S. W. Point, Anticosti	29.69	754.1	29.72	754.9	43	6.1	89	nw.	3	1.3			10 n		nw.	0	0	cloudy	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	OBSERVERS
CANADIAN.—Continued.																			
Sydney, C. B.	29.96	761.0	30.02	762.5	53	11.7	80	sw.	16	7.2		2 c	0			0	0	clear	T. C. Hill, C. E.
Toronto, Ontario*	29.73	755.1	30.12	765.0	43	6.1	71	nw.	7	3.1			10 ks		w.	0.05	1.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.09	738.9	30.18	766.6	38.6	3.7	83	w.	4.5	2.0		0	9 s			0.02	0.5	d. clouds	Prof. Wolverton, M. A.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	56	13.3	93	sw.	14	6.3			10 s		sw.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.76	781.3	30.79	782.1	65.0	18.3	84	w.	12.0	5.4			10 n			0	0	dense haze	I. Garfelt.
Springbok Fontein	27.90	708.6			69	20.6	46									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	29.96	761.0	30.04	763.0	56.5	13.6	95	sw.			2	0	4 k		sw.			fair	Samuel Redolez.
Iquique	30.02	762.4	30.04	763.1	62.2	16.8	64	ne.			3							fair	Rafael Moreno.
Niebla	29.36	745.8	29.47	748.5	53.2	11.8	90	nw.			6		7		nw.	0.512	13.0		Federico Kühling.
Punta Caldera	29.97	761.1	30.05	763.3	58.3	14.6	82	sw.			1		10 n		sw.			drizzling	Manuel Tobar.
Punta Corona	29.74	755.3	29.93	760.1				nw.			5		10			0.291	7.4	cloudy	Ignacio Ayala.
Valparaiso	29.92	759.9	30.06	763.5	56.7	13.7	89	ne.			0							hazy	Paez-i-Ampuero.
CHINESE (*sub-series*).																			
Sung-shu-chwang	25.37	644.5																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.13	765.2	30.15	765.8	67.3	19.6	68	ese.	11.9	5.3			5			0	0	cloudy	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.42	747.3	29.47	748.5	55.9	13.3	89	ssw.	13	6			10					hazy	Oversergent Fischer.
Fanoe	29.32	744.6	29.34	745.1	55.4	13.0	90	wsw.	9	4			7						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.61	752.2	29.66	753.3	46.4	8.0	88	se.	4	2			8						A. O. Thorlacius.
Thorshavn	29.54	750.2	29.56	750.8	48.9	9.4	75	ne.	9	4			10						Overloerer Bergh.
Vestervig	29.21	741.8	29.30	744.1	54.5	12.5	93	sse.	9	4			10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.74	755.3			101.8	38.8		s.	5.8	2.6			1 nk			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.47	748.4	30.17	766.4	64.0	17.8	70	wsw.			2		k		nw.	0.20	5.		M. Labroue, Director.
Alençon, Normal School	29.52	749.7	30.03	762.7	59.0	15	80	sw.			1		s		ne.	0.236	6.0		M. Nicot, Director.
Avignon, Normal School	29.89	759.1	29.97	761.1	68.7	20.4	53	nw.			2		0			0.126	3.2	clear	M. Giraud, Director.
Bar-sur-Seine	29.35	745.4	29.89	759.3	60.6	15.9	66	wnw.			2		8 kn		nw.	0.177	4.5	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.54	750.2	29.80	756.8	62.6	17	73	w.			2		8		w.	0.106	2.7	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.03	737.3	29.89	759.3	60.4	15.8	71	s.			1					0.197	5.0		M. Gobin, Director.
Bordeaux, Observatory	29.80	756.9	30.06	763.5	59.4	15.2	84	w.			1		10		w.	0.228	5.8	covered	M. Rayet, Director.
Bourges, Normal School	29.41	747.1	29.95	760.8	60.8	16	69	sw.			2		n		sw.	0.008	0.2		M. Malet, Director.
Brest, Naval Observatory	29.67	753.6	29.91	759.8	59.0	15.0	98	sw.			2		10		sw.	0.031	0.8	raining	M. de Kermarec, Dir.
Caen, Normal School	29.74	755.4	29.82	757.5	61.5	16.4	72	w.			1		5		w.	0.059	1.5	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.49	749.0	29.84	757.9	58.8	14.9	87	w.			2		8		w.	0.024	0.6	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.28	743.8	29.78	756.4	56.5	13.6	84	w.			2		10			0.08	2.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.63	727.3	29.97	761.1	63.3	17.4	65	w.			2		5		nw.	0.071	1.8		M. Allnard, Director.
Cluny, Normal School	29.15	740.4	29.95	761.6	59.2	15.1	71	w.			2				w.	0.102	2.6		M. de Villemontée, Dir.
Commercy, Normal School	29.02	737.1	29.87	758.8	55.0	12.8	83	nw.			4		5 kn	nw.	nw.	0.083	2.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.37	695.2	29.84	757.9	62.6	17	58	n.			2		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.79	731.2	29.89	759.1	64.6	18.1	44	n.			4		8		se.	0.630	16.0		M. Kina, Director.
Grenoble, Normal School	29.22	742.1	29.97	761.3	60.8	16	56	nw.			1		ck		n.	0.63	16.		M. Ablard, Directoor.
Guéret, Normal School	28.41	721.7	29.97	761.3	55.4	13	79	sw.			1		5 kn		sw.	0.08	2.	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.54	750.2	29.81	757.2	59.0	15	78	sw.			2		10		sw.	0.08	2.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.54	750.4	30.17	766.4	62.8	17.1	68	w.			1		10 n			0.370	9.4	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.79	756.7	29.89	759.3	58.3	14.6	82	wsw.			4		10		w.	0.343	8.7	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.0	29.98	761.6	60.8	16.0	51	s.			1		8 kn		nw.	0.996	25.3	very cloudy	M. André, Director
Mans, Normal School	29.57	751.0	29.87	758.7	60.3	15.7		nw.			6		8 kn		w.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.66	753.4	29.93	760.2	68.7	20.4	32	wnw.			4		1		wnw.	0	0		M. Stephan, Director.
Montlouis	24.93	633.1	29.77	756.1	59.4	15.2	32	se.	20.6	9.2			5	ne.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	757.9	29.95	760.6	69.4	20.8	53	nnw.			6		5		w.	0	0	cloudy	M. Galzin, Director.
Nantes, Observatory	29.83	757.6	29.98	761.6	60.3	15.7	74	wsw.			1-4		10 n		w.	0.004	0.1		M. Larocque, Director.
Perpignan, Observatory	29.92	759.9	30.03	762.7	69.8	21.0	40	nw.	15.0	6.7			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	539.9			30.6	0.8		nw.			1		10		nw.	0.079	2.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.80	731.4	29.83	757.6	67.3	19.6	65	sse.			3		5 k	sw.	s.	0.146	3.7	cloudy	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.12	637.9			39.9	4.4	100	w.			1		8		wnw.	0.705	17.9		M. Allnard.
Rochefort, Naval Obs'y	29.98	761.6	30.02	762.4	64.4	18.0	65	w.			1		5		w.	0.189	4.8	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.5	29.96	760.9	62.2	16.8	87	wsw.			4		10		w.	0.10	4.	covered	M. Brotier, Director.
Rodez, Normal School	27.91	709.0	30.07	763.7	53.2	11.8	85	nw.			1		10		ne.	0.063	1.6	raining	M. Seger, Director.
Rouen, Normal School	29.78	756.4	29.83	757.6	58.6	14.8	86	w.			2		5	w.		0.516	13.1	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.69	754.2	29.86	758.4	58.6	14.8	81	wsw.			1		8		w.	0.008	0.2	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.40	746.7	30.12	765.1	66.2	19.0	59	w.			4		2	nw.		0.016	0.4	slightly cl'dy	M. Bailland, Director.
Tours	29.76	755.8	29.93	760.3	62.6	17.0	68	ssw.			2		5	ne.	w.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.35	745.6	29.85	758.1	59.4	15.2	76	sw.			4		8			0.075	1.9	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.00	761.9	30.14	765.6	63.9	17.7	74	w.	17.7	7.9			8 k		nw.	0.791	20.1		M. Cartier, Director.
GERMAN.																			
Anshach	28.39	721.2	29.83	757.6	55.8	13.2	70	sw.			4		7	sw.		0.465	11.8		Prof. Inedt.
Bamberg	28.98	736.0	29.81	757.2	57.2	14.0	77	sw.			2		9 k		w.	0.059	1.5		Prof. Dr. Hoh.
Berlin	29.50	749.3	29.64	752.9	57.7	14.3	79	sw.			2		10			0.008	0.2		Dr. Lensch.
Breslau	29.26	743.3	29.79	756.7	59.5	15.3	74	ssw.			2		10			0.240	6.1		Royal University Obs'y.
Carlsruhe	29.39	746.6	29.84	758.0	59.0	15.0	71	sw.			2		10	sw.		0.087	2.2	raining	Albert Senz.
Cassel	28.97	735.8	29.68	753.9	60.1	15.6	86	s.			6		8	s.		0.087	2.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.39	746.6	29.76	755.8	61.3	16.3	63	wsw.			1		10			0.043	1.1		Physical Society.
Friedrichshafen	28.50	723.9	29.90	759.5	57.6	14.2	62	w.			3		7	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.45	747.9	29.54	750.2	56.5	13.6	88	sw.			6		10	sw.		0.268	6.8		E. Preiler.
Kiel	29.45	748.0	29.47	748.4	56.8	13.8	83	wsw.			2		7			0.098	2.5		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.30	744.3	29.71	754.7	62.6	17.0	63	wsw.			4		7	w;sw.		0.079	2.0		H. Leppig, Asst.
Magdeburg	29.44	747.8	29.63	752.5	63.0	17.2	58	wsw.			3		4	sw.		0	0		Weather Observatory.
Memel	29.55	750.6	29.60	751.8	56.3	13.5	90	n.			1		10 s					raining	Issermann.
Munich	28.06	712.8	29.92	759.9	57.4	14.1	68	w.			2		8	sw.		0.083	2.1		Central Station.
Neufahrwasser	29.60	751.7	29.61	752.1	55.2	12.9	88	w.			1		10			0.398	10.1	raining	A. Lothes.
Neustadt, Palatinate	29.27	743.5	29.80	756.8	60.0	16.0	64	w.			3		8	w.		0.201	5.1	raining	Dicknether.
Stuttgart	28.90	734.1	29.78	756.3	60.3	15.7	57	sw.			1		9	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.46	748.3	29.48	748.9	57.7	14.3	88	s.			4		10 s			0.051	1.3		Profs. Brandes & Reimer
GREEK.																			
Athens	29.49	749.0	29.87	758.6	70.9	21.6		n.			3.0		9			0.051	1.3	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.70	754.4	29.75	755.7	82.2	27.9	77	wsw.	30.0	13.4			2	wsw.		0	0	d. clouds	
Deesa	29.26	743.3	29.74	755.3	82.0	27.8	70	wsw.	3.0	1.3			7	ne.	n.	0.23	5.8	d. clouds	
Bombay	29.77	756.1	29.81	757.1	81.7	27.6	87	nw.	11.0	4.9			10		wnw.	0.12	3.0	overcast	
Poona, Yarrowda	27.96	710.1	29.84	757.9	70.5	21.4	94	ne.	4.0	1.8			9			2.39	60.7	d. clouds	
Trichinopoly	29.50	749.3	29.78	750.4	83.6	28.7	73	nw.	0.1	0.04			8			0	0	d. clouds	
Bellary	28.25	717.6	29.69	754.1	89.0	31.7	45	w.	16.0	7.2			6			0	0	d. clouds	
Belgaum	27.28	693.0	29.84	758.0	70.8	21.6	90	w.	7.0	3.1			9	e.	w.	0.13	3.3	d. clouds	
Lahore	28.95	735.4	29.68	753.9	87.7	30.9	49	calm	0	0			0			0	0	blue sky	
Roorkee	28.79	731.3	29.67	753.7	87.8	31.0	49	calm	0	0			0			0	0		
Agra	29.15	740.4	29.70	754.3	96.1	35.6	29	w.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.70	729.1	29.73	755.2	86.5	30.3	55	calm	0	0			8		sw.	0	0	d. clouds	
Jubbulpore	28.41	721.7	29.75	755.5	87.8	31.0	47	ne.	4.0	1.8			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.33	745.1	29.70	754.5	87.1	30.6	50	nnw.	0.7	0.3	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.38	746.3	29.69	754.2	85.4	29.7	65	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.51	749.5	29.69	754.1	87.0	30.6	71	calm	1.8	0.8	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.74	704.5	29.73	755.0	81.5	27.5	58	nnw.	4.5	2.0	.....	.....	2	.....	.....	0	0	d. clouds	
Cuttack	29.69	754.1	29.77	756.1	79.8	26.6	87	calm	0	0	.....	.....	7	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.74	755.4	29.76	755.9	79.5	26.4	90	sse.	5.0	2.2	.....	.....	9	.....	sw.	0	0	d. clouds	
Dhubri	29.62	752.4	29.74	755.4	78.4	25.8	86	s.	1.5	0.7	.....	.....	9	s.	.....	0	0	d. clouds	
Chittagong	29.74	755.4	29.83	757.7	78.5	25.8	93	calm	4.1	1.8	.....	.....	8	.....	.....	0	0	d. clouds	
Sibsagar	29.45	748.0	29.79	756.6	79.6	26.4	87	ne.	2.0	0.9	.....	.....	10	w.	w.	0.04	1.0	overcast	
Jeypore	28.31	719.0	29.71	754.6	94.7	34.8	25	nw.	4.6	2.1	.....	.....	2	.....	nw.	0	0	blue sky	
Zanzibar	29.98	761.5	.....	.....	83.3	28.5	59	se.	4.0	1.8	.....	.....	4	ese.	nne.	0	0	d. clouds	
ITALIAN.																			
Udine	29.42	747.3	29.82	757.4	67.1	19.5	73	calm	0	0	.....	.....	10	.....	.....	0.091	2.3	.....	Prof. Giovanni Clodig.
Milan	29.27	743.5	29.78	756.3	69.8	21.0	65	se.	3.1	1.4	.....	.....	6	ssw.	.....	0.130	3.3	.....	Prof. G.V.Schiapparelli
Padua	29.67	753.7	29.78	756.4	67.6	19.8	72	se.	2.5	1.1	.....	.....	10	.....	.....	0.201	5.1	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.86	733.0	29.74	755.5	65.1	18.4	79	ssw.	1.3	0.6	.....	.....	5	sw.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.59	751.6	29.78	756.3	69.8	21.0	69	sw.	3.1	1.4	.....	.....	6	se.	.....	1.173	29.8	.....	Prof. G. M. Garibaldi.
Mondovi	27.91	708.8	29.78	756.3	63.5	17.5	75	n.	.....	.....	4	.....	7	.....	.....	0.378	9.6	.....	Prof. D. C. Bruno.
Pesaro	29.68	753.8	29.72	755.0	72.0	22.2	64	e.	6.9	3.1	.....	.....	10	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.54	750.4	29.79	756.7	71.6	22.0	70	s.	.....	.....	2	.....	10	s.	.....	0.236	6.0	.....	Prof. Costantino Pitto(
Leghorn	29.67	753.7	29.76	755.8	70.2	21.2	67	w.	4.3	1.9	.....	.....	10	sw.	.....	0.217	5.5	.....	Prof. P. Monte.
Rome	29.69	754.2	29.86	758.5	75.0	23.9	54	ssw.	9.8	4.4	.....	.....	5	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.64	752.9	29.89	759.1	77.0	25.0	48	se.	2.5	1.1	.....	.....	2	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.08	738.5	29.94	760.5	74.5	23.6	64	nw.	2.5	1.1	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.70	754.3	29.89	759.1	80.2	26.8	37	calm	0	0	.....	.....	6	.....	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.69	754.2	29.93	760.3	72.5	22.5	56	ne.	3.1	1.4	.....	.....	.....	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	29.90	759.5	29.95	760.6	73.9	23.3	68	sw.	3.1	1.4	.....	.....	1	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.39	746.6	29.90	759.5	71.1	21.7	74	w.	2.5	1.1	.....	.....	7	ssw.	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.23	767.9	30.27	768.9	52.5	11.4	96	e.	.....	.....	2	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.24	768.1	30.28	769.1	50.5	10.3	85	nne.	2.1	0.9	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	30.11	764.8	30.21	767.3	61.8	16.3	84	calm	.....	.....	0	0	0	.....	.....	0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.16	766.0	30.17	766.3	63.5	17.5	75	calm	.....	.....	0	0	1 s	.....	.....	0	0	clear	G. Miyanonaga.
Kanazawa	30.11	764.8	30.21	767.4	59.4	15.2	86	se.	6.9	3.0	.....	0	1ck;s	.....	.....	0	0	fair	S. Endo.
Kioto	30.03	762.8	30.20	767.2	59.6	15.3	84	n.	2.6	1.2	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.18	766.5	30.20	767.0	65.2	18.4	78	n.	2.5	1.1	.....	0	1 ck	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.15	765.9	30.18	766.6	63.2	17.3	88	n.	.....	.....	1	0	c	.....	.....	0	0	clear	K. Masuaki.
Miyako	30.23	767.8	30.34	770.6	48.0	8.9	96	w.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.98	761.5	30.19	766.8	60.5	15.8	68	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Takenayama.
Niigata	30.25	768.3	30.29	769.3	59.5	15.3	87	e	5.1	2.2	.....	.....	10 n	.....	sw.	0.325	8.3	light rain	Satoo & Tomikawa.
Nobiru	30.29	769.4	30.31	769.8	52.0	11.1	90	ne.	7.0	3.1	.....	0	7 s	.....	.....	0	0	fair	Yoslino & Midzushina.
Numazu	30.19	766.8	30.22	767.7	64.4	18.0	78	ne.	.....	.....	4	1 ck	2 s	.....	.....	0	0	clear	K. Kaneda.
Osaka	30.18	766.4	30.19	766.9	61.1	16.2	76	nnw.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	H. Omura.
Sakai	30.20	767.1	30.21	767.3	61.3	16.3	79	ene.	.....	.....	2	0	0	.....	.....	0	0	clear	Yamawchi&Sakamoto.
Shimonoseki	30.08	764.0	30.22	767.7	62.2	16.8	76	calm	.....	.....	0	0	0	.....	.....	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.19	766.7	30.26	768.6	61.0	16.1	89	n.	9.7	4.3	.....	.....	10 s	.....	ne.	0.040	1.0	overcast	The Staff.
Wakayama	30.13	765.2	30.18	766.5	60.9	16.1	75	e.	3.0	1.3	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.94	760.5	30.13	765.3	74.0	23.3	66	ese.	21.5	9.6	.....	0	4 k	.....	e.	0.04	1.0	fair	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.02	762.5	58.6	14.8	71	ssw.	0.9	0.4	.....	5 c	5ck;s	.....	.....	0	0	covered	Prof. M. Leal.
Mazatlan	29.69	754.0	29.94	760.5	75.5	24.2	90	ne.	1.6	0.8	.....	.....	10 k	.....	se.	0.276	7.0	covered	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	74	23.3	97	e.	.....	.....	1	.....	10 k	.....	s.	0.09	2.3	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.67	753.5	29.67	753.5	60.1	15.6	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.303	7.7	.....	
Groningen	29.45	747.9	29.50	749.3	55.4	13.0	.....	wsw.	.....	.....	3	.....	.....	.....	.....	0.394	10.0	.....	
Helder	29.52	749.8	29.52	749.8	57.9	14.4	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.181	4.6	.....	
Hellevoetsluis	29.63	752.6	29.63	752.6	59.0	15.0	68	w.	.....	.....	5	.....	.....	.....	.....	0.941	23.9	.....	
Utrecht	29.56	750.9	29.61	752.1	59.7	15.4	86	sw.	.....	.....	4	.....	8	.....	.....	0.299	7.6	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.89	759.2	.....	.....	80.6	27.0	76	ne.	3.0	1.3	.....	.....	2	.....	.....	0	0	.....	Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.24	742.7	29.30	744.3	57.9	14.4	55	wnw.	1.3	0.6	.....	.....	5	.....	.....	0	0	.....	
Brono	29.48	748.8	29.52	749.8	48.6	9.2	53	n.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Christiania	29.29	743.9	29.43	747.6	45.0	7.2	91	ne.	13	6	.....	.....	10	.....	.....	0.709	18.0	raining	
Gjæsvær	29.58	751.3	29.60	751.9	34.7	1.5	.....	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Lodingen	29.56	750.9	29.61	752.1	40.6	4.8	56	ne.	.....	.....	3	.....	1	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	69.3	20.7	85	ne.	2.5	1.1	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santo .
Funchal, Madeira	30.16	766.0	30.24	768.2	76.8	24.9	53	sw.	6.3	2.8	.....	.....	1	n.	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.7	30.21	767.2	66.9	19.4	47	nne.	24.2	10.8	.....	.....	6	n.	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.42	772.7	30.49	774.5	71.6	22.0	50	calm	0	0	.....	.....	5	.....	.....	0	0	.....	
Saint Paul de Loanda	29.76	755.9	29.96	761.0	76.6	24.8	88	nw.	.....	.....	2	.....	2	sse.	.....	0	0	.....	
San Salvador, Congo	28.13	714.6	29.96	761.0	80.8	27.1	52	wnw.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	
Serra da Estrella	25.45	646.3	30.19	766.9	49.5	9.7	49	nnw.	11.9	5.3	.....	.....	1	.....	.....	0.004	0.1	.....	
RUSSIAN.																			
Akmolinski	28.79	731.2	29.85	758.3	53.2	11.8	38	e.	9	4	.....	3 c	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.80	757.0	29.82	757.5	38.1	3.4	80	wsw.	9	4	.....	.....	10	.....	.....	0	0	light clouds	Capt. Sseliwerstow
Ashurnda	30.06	763.6	29.97	761.2	79.2	26.2	79	w.	4	2	.....	.....	9 kn	.....	.....	0.780	19.8	.....	
Astrakhan	30.18	766.6	30.11	764.8	64.9	18.3	56	ne.	7	3	.....	.....	10 s;n	.....	.....	blank	blank	.....	Capt. Wisganow.
Baku	30.04	763.1	30.00	761.9	71.6	22.0	77	nnw.	22	10	.....	0	0	.....	.....	0	0	.....	
Barnaul	29.00	751.7	30.10	764.6	46.2	7.9	56	ne.	4	2	.....	.....	9	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	29.49	749.1	29.97	761.2	42.1	5.6	68	s.	2	1	.....	c	9 ks	.....	.....	0.276	7.0	.....	
Dorpat	29.40	746.8	29.65	753.0	47.5	8.6	98	se.	7	3	.....	.....	10 n	.....	.....	0.299	7.6	.....	Observatory.
Ekaterinburg	28.65	727.8	29.62	752.4	41.5	5.3	76	sw.	18	8	.....	.....	9 n	.....	.....	0.012	0.3	.....	Meteorological Obs'y.
Elissawetgrad	29.65	753.2	30.09	764.3	68.9	20.5	28	ssw.	11	5	.....	1 c	0	.....	.....	0	0	.....	
Irkutsk	28.47	723.2	30.15	765.7	40.1	4.5	65	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Kasalinsk	.....	.....	.....	.....	58.8	14.9	33	n.	4	2	.....	c;cs	4 k	.....	.....	.....	.....	.....	
Kasan	29.69	754.0	29.96	761.0	46.0	7.8	58	nw.	7	3	.....	0	1 k	.....	.....	0.087	2.2	.....	Observatory.
Kem	29.76	756.0	29.82	757.3	39.2	4.0	56	w.	4	2	.....	0	8 k	.....	.....	0	0	.....	
Kertch	30.11	764.7	30.13	765.3	62.4	16.9	57	ene.	4	2	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kieff	29.31	744.4	29.92	760.0	67.5	19.7	38	s.	16	7	.....	0	6 k;ks	.....	.....	0	0	light clouds	Observatory.
Koslov	29.53	750.1	30.04	762.9	52.7	11.5	80	wsw.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Libau	29.57	751.0	29.59	751.6	56.5	13.6	88	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	E. Quaas.
Lugan	29.91	759.6	30.11	764.7	63.7	17.6	33	wsw.	4	2	.....	.....	2	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.52	749.7	30.00	762.1	39.7	4.3	96	ne.	4	2	.....	.....	9 s	.....	.....	0.047	1.2	.....	Meteorological Obs'y
Nikolaiev	30.10	764.6	30.17	766.4	69.3	20.7	39	s.	9	4	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	.....	.....	.....	.....	44.2	6.8	61	s.	2	1	.....	.....	10 n	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.80	757.0	29.95	760.6	66.2	19.0	78	se.	3.7	1.5	.....	0	7 n	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.61	752.0	29.94	760.5	80.8	27.1	29	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.65	753.2	29.85	758.3	41.2	5.1	55	s.	7	3	.....	0	3 ks	.....	.....	0.118	3.0	.....	Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.32	744.6	29.80	756.9	64.2	17.9	61	s.	18	8	.....	10 c	0	.....	.....	0.008	0.2	light clouds	
Poti	30.04	763.0	30.07	763.8	74.5	23.6	82	wnw.	4	2	.....	0	8 n	.....	.....	0	0	.....	
St. Petersburg	29.74	755.3	29.76	755.9	45.0	7.2	72	se.	13	6	.....	.....	9 sn	.....	.....	0.118	3.0	.....	Central Physical Obs'y.
Samarkand	27.52	699.1	29.89	759.1	75.2	24.0	38	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.34	745.2	30.00	762.0	50.2	10.1	39	n.	9	4	.....	.....	10	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.88	759.0	30.09	764.3	68.9	20.5	63	n	11	5	.....	0	2 ks	.....	.....	0	0	.....	
Starol Bykhov	29.28	743.7	29.82	757.3	67.1	19.5	70	s.	11	5	.....	c	10 ks	.....	.....	0.067	1.7	.....	
Tashkend Laboratory	28.28	718.2	29.85	758.3	80.2	26.8	42	calm	0	0	.....	0	0	.....	.....	0	0	.....	Torch, A. M
Tiflis	28.61	726.8	29.98	761.6	72.5	22.5	50	nw.	18	8	.....	0	6 s	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.38	695.4	29.78	756.3	71.8	22.1	43	calm	0	0	.....	0	2 k	.....	.....	0	0	.....	
Viatka	29.21	741.9	29.85	758.2	39.9	4.4	74	w.	9	4	.....	.....	8	.....	.....	0	0	.....	
Warsaw	29.27	743.5	29.69	754.0	58.5	14.7	81	ssw.	13	6	.....	.....	10 k	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.98	761.5	30.28	769.1	34.7	1.6	65	w.	7	3	.....	.....	3	.....	.....	0	0	.....	M. O. Marks.
Scottish.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.90	759.4	30.00	762.0	71.6	22.0	64	sse.	3.6	1.6	.....	0	7	.....	.....	0.039	1.0	.....	Antonio Molins.
Bilbao, Met. Obs'y	30.12	765.1	30.18	766.6	67.3	19.6	64	nw.	3.1	1.4	.....	.....	10	.....	.....	0.138	3.5	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.21	691.1	30.15	765.8	61.2	16.2	54	n.	3.8	1.7	.....	.....	8	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.90	708.6	30.08	764.1	67.5	19.7	39	nw.	6.0	2.7	.....	1	0	.....	.....	0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.83	757.6	29.95	760.8	83.3	28.5	52	ene.	4.9	2.2	.....	2	3	w.	.....	0	0	clouds	Olayo Diaz, Director.
Oviedo	29.44	747.7	30.20	767.0	59.0	15.0	71	e.	4.7	2.1	.....	4 k	4 k	w.	w.	0.028	0.7	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.6	30.17	766.2	63.5	17.5	76	w.	0.7	0.3	.....	.....	10	.....	.....	0.028	0.7	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.6	30.09	764.3	78.0	25.6	85	e.	2.2	1.0	.....	ck	2 ks	sse.	e.	0.03	0.7	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.7	76.8	24.9	96	sw.	11.0	4.9	.....	.....	9 kn	.....	.....	0.571	14.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.5	30.08	764.0	70.2	21.2	57	nw.	13.1	5.9	.....	0	1	.....	w.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	29.96	760.9	30.05	763.2	79.9	26.6	88	calm	0	0	.....	3 cs	3 kn	se.	e.	0	0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.66	753.3	29.70	754.3	37.8	3.2	80	sw	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	29.64	752.9	29.69	754.2	42.1	5.6	61	s.	.....	.....	2	.....	9	.....	.....	0.106	2.7	.....	
Hernosand	29.61	752.1	29.66	753.4	44.6	7.0	88	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	29.38	746.2	29.56	750.7	53.8	12.1	83	ssw.	.....	.....	2	.....	10	.....	.....	0.220	5.6	.....	
Wisby	29.51	749.6	29.57	751.1	54.3	12.4	94	sw.	.....	.....	4	.....	10	.....	.....	0.024	0.6	.....	
Sub-series.																			
Upsala	29.44	747.7	29.52	749.9	52.5	11.4	96	wnw.	0	0	.....	.....	10	.....	.....	0.110	2.8	.....	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.56	725.4	29.97	761.1	61.3	16.3	53	wsw.	.....	.....	2	.....	3	.....	.....	1.559	39.6	.....	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.03	762.7	71.6	22.0	62	ene.	12.3	5.5	.....	.....	2	.....	ne.	0.01	0.3	.....	The Observatory.
Valona	.....	.....	30.06?	763.4?	75.7	24.3	.....	w.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.90	759.5	82.8	28.2	60	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.77	679.9	.....	.....	78	25.6	62	calm	.....	.....	0	.....	.....	.....	.....	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	29.90	759.4	29.98	761.5	60	15.6	77	s.	2	0.9	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.14	765.5	34	1.1	79	w.	6	2.7	.....	0	2 s	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.90	759.4	49	9.4	68	e.	1	0.4	.....	0	6 s	.....	.....	0	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.28	692.9	30.13	765.3	32	0.0	62	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.08	738.6	30.25	768.3	59.0	15.0	75	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	64	17.8	84	w.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.07	763.8	30.26	768.6	58.0	14.4	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	D. J. Young.
Baltimore, Maryland	30.03	762.7	30.08	764.0	62	16.7	87	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	Geo. W. Feiger.
Barnegat City, New Jersey	30.02	762.5	30.04	763.0	62.0	16.7	87	w.	10	4.5	.....	8 cs	fg.	w.	.....	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.44	747.8	29.46	748.3	40.8	4.9	86	n.	22	9.8	.....	0	8 k	.....	n.	1.26?	32.0?	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.59	726.2	30.18	766.6	39.0	3.9	73	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.20	767.1	33	0.6	68	calm	0	0	.....	.....	sk.	.....	.....	0	0	dense smoke	Thomas Morgan.
Bismarck, Dakota	28.37	720.6	30.17	766.3	30	— 1.1	80	calm	0	0	.....	8 k	0	w.	.....	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	63	17.2	90	w.	16	7.2	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.24	691.9	30.01	762.2	37.5	3.1	.....	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Kenealy.
Boston, Massachusetts	29.78	756.4	29.93	760.2	62.0	16.7	87	sw.	11	4.9	.....	0	fg.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	71.0	21.7	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Buffalo, New York	29.36	745.7	30.09	764.3	44.7	7.1	68	sw.	11	4.9	.....	10 cs	0	sw.	.....	0.02	0.5	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.22	716.8	30.20	767.1	29.3	— 1.5	80	nw.	2	0.9	.....	0	6 s	.....	.....	0	0	fair	A. Schneider.
Cairo, Illinois	29.75	755.6	30.15	765.8	64.6	18.1	86	sw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.70	754.4	29.90	759.4	58.0	14.4	90	s.	16	7.2	.....	.....	10 s	.....	s.	0	0	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.12	765.0	30.14	765.5	68.0	20.0	100	sw.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.04	763.0	30.07	763.8	65.5	18.6	93	sw.	17	7.6	.....	.....	10 s	.....	.....	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.22	742.2	29.90	759.4	60	15.6	75	se.	36	16.1	.....	5 k	0	se.	.....	0	0	fair	J. J. McLean.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	75.0	23.9	90	ne.	9	4.0	.....	6 ck	0	sw.	.....	0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.15	765.8	30.20	767.1	70.0	21.1	100	e.	3	1.3	.....	0	fg	.....	.....	0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.36	745.7	30.20	767.1	61.0	16.1	78	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.22	767.6	61.0	16.1	90	calm	0	0	.....	7 cs	1 s; fg	.....	.....	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.02	762.5	37.8	3.2	27	nw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.43	747.5	30.12	765.0	48.0	8.9	77	nw.	1	0.4	.....	5 ck	0	w.	.....	0	0	fair	Wm. Norrington.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	65	18.3	84	sw.	4	1.8	.....	.....	10 ks; hz	.....	w.	inap.	inap.	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.11	764.8	61.0	16.1	78	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.39	746.5	30.11	764.8	51.5	10.8	66	ne.	4	1.8	.....	.....	10 k	.....	n.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenan.
Columbus, Ohio	29.25	742.9	30.09	764.3	57	13.9	80	w.	5	2.2	.....	5 k	0	w.	.....	0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.18	715.8	30.08	764.0	63.4	17.4	90	calm	0	0	.....	4 ck	6 s	.....	.....	0	0	cloudy	J. McGlone.
Custer, Fort, M. T.	26.89	683.0	30.01	762.2	32	0.0	71	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.48	748.8	30.13	765.3	45	7.2	68	e.	5	2.2	.....	hz.	hz.	.....	.....	0	0	dense haze	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	29.98	761.5	58	14.4	83	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.25	717.5	30.00	762.0	44	6.7	68	ne.	4	1.8	.....	0	sk.	.....	.....	0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.44	646.2	30.00	762.0	35	1.7	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.06	763.5	30.08	764.0	64.5	18.1	90	sw.	12	5.4	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.85	631.2	29.96	761.0	45.0	7.2	51	s.	4	1.8	.....	hz.	0	.....	.....	0	0	dense haze	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.13	765.3	43	6.1	83	ne.	4	1.8	.....	.....	sk.	.....	.....	0	0	dense smoke	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.11	764.8	45.0	7.2	76	nw.	12	5.4	.....	hz.	0	.....	.....	0	0	dense haze	E. R. Brace.
Dodge City, Kansas	27.42	696.5	29.97	761.2	56	13.3	80	s.	4	1.8	.....	6 c	0	s.	.....	0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.45	748.0	30.15	765.8	41.5	5.3	71	nw.	2	0.9	.....	1 k	fg.	n.	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.44	747.8	30.18	766.6	31.5	— 0.3	78	w.	17	7.6	.....	0	1 s	.....	.....	0	0	clear	N. B. Conger.
Eastport, Maine	29.76	755.9	29.83	757.7	57.0	13.9	86	sw.	14	6.3	.....	.....	10 s	.....	sw.	0	0	cloudy	D. C. Murpay.
Elliott, Fort, Texas	27.31	693.7	30.00	762.0	56	13.3	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.34	669.0	29.99	761.7	63.0	17.2	78	e.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.41	747.0	30.12	765.0	49	9.4	63	n.	6	2.7	.....	8 cs	0	.....	.....	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.50	749.3	30.16	766.1	30.5	— 0.8	88	w.	6	2.7	.....	3ck; cs	2 s	.....	.....	0	0	fair	George Heathcote.
Galveston, Texas	30.09	764.3	30.13	765.3	76	24.4	69	se.	3	1.3	.....	3 cs	hz.	s.	.....	0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.59	749.3	30.16	766.1	43.0	6.1	74	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.26	641.6	29.86	758.4	60.1	15.6	60	n.	5	2.2	.....	2 cs	0	sw.	.....	0.08	2.0	clear	Chas. A. Read.
Hatteras, North Carolina	30.18	766.6	30.20	767.1	73.0	22.8	84	sw.	12	5.4	.....	6 ck	3 k	sw.	w.	0	0	cloudy	R. M. Crawford
Helena, Montana	25.86	656.8	30.03	762.7	40	4.4	67	ne.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	T. H. Jones.

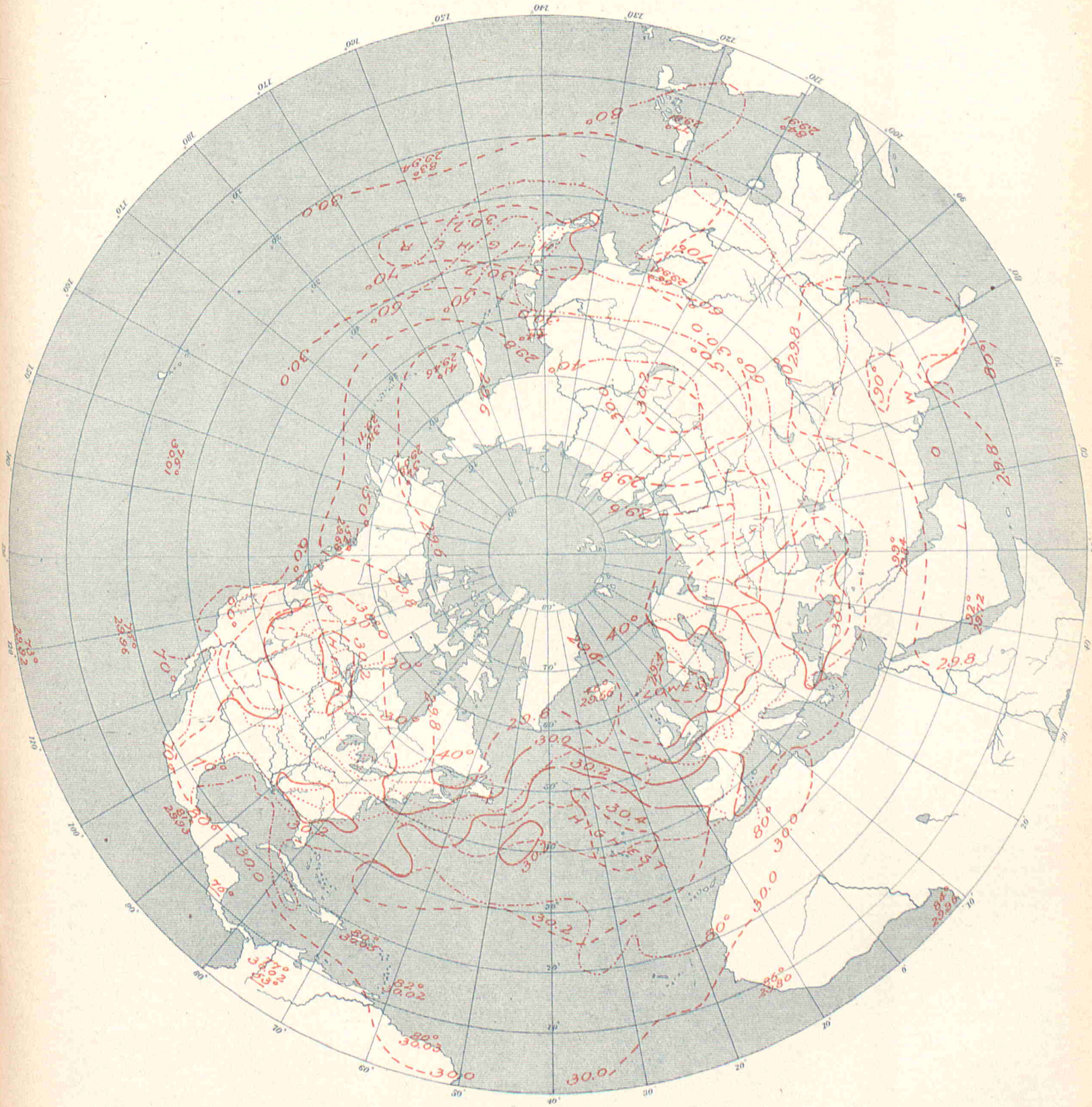
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.76	730.5	30.14	765.5	39.8	4.3	81	ne.	8	3.6			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.09	764.3	56.0	13.3	80	calm	0	0		0	9 k		w.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.06	763.5	30.09	764.3	74.7	23.7	83	se.	7	3.1		0	0			0	0	clear	I. A. Reed.
Jacksonville Florida	30.16	766.1	30.20	767.1	71.5	21.9	94	ne.	3	1.3		4 cs	fg.	w.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.44	747.8	30.09	764.3	48.0	8.9	77	ne.	6	2.7		4 k;hz	0	nw.		0	0	dense haze	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	84	28.9	72	e.	10	4.5		2 k	0	e.		0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.18	766.6	30.20	767.1	69	20.6	84	w.	12	5.4		1 c	2s;hz		w.	0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.21	741.9	30.23	767.8	60.4	15.8	94	calm	0	0		4cs;hz	0			0	0	dense haze	J. A. Cody.
La Crosse, Wisconsin	29.41	747.0	30.18	766.6	41	5.0	92	n.	8	3.6			10 n			inap.	inap.	light rain	S. C. Emery.
Leavenworth, Kansas	29.17	740.9	30.05	763.3	52	11.1	86	calm	0	0		0	fg.			0	0	clear	T. S. Outram.
Lewiston, Idaho					39.0	3.9	82	calm	0	0			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.81	757.2	30.12	765.0	65	18.3	84	calm	0	0			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	54	12.2	96	n.	4	1.8		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.53	750.0	30.08	764.0	64	17.8	78	sw.	6	2.7		10 cs	0	w.		0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.43	747.5	30.11	764.8	63.3	17.4	73	sw.	1	0.4			10 s		sw.	0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.48	748.8	30.13	765.3	40.0	4.4	84	sw.	5	2.2		0	8 ks		w.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.22	767.6	30.23	767.8	72.0	22.2	90	w.	2	0.9		2 k	0	sw.		0	0	clear	William Daly.
Maginnis, Fort, Montana	25.62	650.7	30.02	762.5	34	1.1	45	e.	5	2.2		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.42	747.3	30.14	765.5	38.0	3.3	72	w.	5	2.2			10 s		w.	0.12	3.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.15	765.8	65	18.3	78	se.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.42	747.3	30.16	766.1	47	8.3	68	ne.	9	4.0			10 s		ne.	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.16	766.1	30.20	767.1	62	16.7	89	n.	2	0.9		4 c	hz.	nw.		0	0	fair	H. U. Jones.
Montgomery, Alabama	30.00	762.0	30.23	767.8	58	14.4	80	se.	2	0.9		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.21	741.9	30.20	767.1	24	— 4.4	88	calm	0	0		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	23.63	600.2	29.78	756.4	37.0	2.8	100	nw.	56	25.0			fg.		nw	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.58	751.3	30.15	765.8	66.0	18.9	73	se.	2	0.9		10 cs	0	sw.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.87	758.7	29.98	761.5	60	15.6	87	w.	5	2.2		0	hz.			0	0	dense haze	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	63	17.2	90	nw.	7	3.1			10 s		nw.	0.04	1.0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.16	766.1	71.5	21.9	84	ne.	4	1.8		0	7 k		ne.	0	0	fair	M. Herman.
New York, New York	29.86	758.4	30.03	762.7	60	15.6	87	sw.	4	1.8			fg.			0	0	dense fog	H. J. Penrod.
Norfolk, Virginia	30.10	764.5	30.13	765.3	66.7	19.3	84	sw.	10	4.5			10 s			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.15	689.6	30.03	762.7	43.6	6.4	83	calm	0	0		0	fg.			0	0	dense fog	E. F. Brady.
Olympia, Washington T'y	29.90	759.4	29.94	760.5	48.0	8.9	93	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.09	764.3	48.2	9.0	91	se.	1	0.4		0	fg.			0	0	clear	A. Pollak
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.70	754.4	30.02	762.5	52.0	11.1	76	nw.	14	6.3			10 k		nw.	0.03	0.8	cloudy	J. G. Linsley
Palestine, Texas	29.62	752.3	30.17	766.3	63.0	17.2	90	e.	5	2.2		2 cs	fg.			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.16	766.1	30.19	766.8	64.8	18.2	76	ne.	5	2.2		7 c	0	w.		0	0	fair	M. McGauran.
Philadelphia, Pa	29.97	761.2	30.07	763.8	61	16.1	93	sw.	2	0.9			fg.			0	0	dense fog	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	30.03	762.7	25	— 3.9	80	w	20	8.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.28	743.7	30.07	763.8	58.0	14.4	86	calm	0	0			10 n		nw.	0.01	0.3	thund'r st'm	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.45	748.0	30.12	765.0	41.0	5.0	82	nw.	6	2.7			10 s		n.	0.07	1.8	cloudy	M. H. Perry
Portland, Maine	29.79	756.7	29.84	757.9	59.0	15.0	87	sw.	10	4.5		6c;cs	fg.	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.89	759.2	29.96	761.0	49.0	9.4	100	s.	1	0.4			fg.			0	0	dense fog	M. L. Hearne.
Portsmouth, N. C																			F. P. Chaffee.
Prescott, Arizona	24.88	631.9	29.98	761.5	48	8.9	54	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.91	759.7	29.94	760.5	63.5	17.5	92	sw.	8	3.6		0	fg.			inap.	inap.	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.62	752.3	29.97	761.2	62	16.7	46	e.	3	1.3		0	hz.			0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.94	760.5	51.3	10.7	93	ne.	1	0.4		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.91	759.7	29.98	761.5	60.0	15.6	70	se.	5	2.2		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.47	748.5	30.08	764.0	58.7	14.8	76	se.	7	3.1		1 c	sk.	w.		0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.55	750.6	29.58	751.3	32	0.0	83	n.	7	3.1		2 c	1 s		n.	0	0	clear	A. P. Leavitt.
St. Paul, Minnesota	29.36	745.7	30.21	767.3	41.0	5.0	57	e.	3	1.3			10 s			0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.32	744.7	30.19	766.8	21	— 6.1	84	sw.	1	0.4		0	1 s			0	0	clear	O. B. Dilley
Salt Lake City, Utah	25.75	654.0	30.00	762.0	49	9.4	39	calm	0	0		0	hz.			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.88	758.9	29.95	760.7	63.0	17.2	93	n.	3	1.3			fg.			0	0	dense fog	F. R. Day.
Sanford, Florida	30.10	764.5	30.16	766.1	74.5	23.6	90	ne.	2	0.9		8 c	0			inap.	inap.	cloudy	J. B. Marbury.
Sandusky, Ohio	29.46	748.3	30.13	765.3	54	12.2	66	ne.	12	5.4		hz.	3 k		ne.	0	0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.01	762.2	30.04	763.0	62.0	16.7	84	sw.	15	6.7		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	54.5	12.5	96	n.	2	0.9			fg.			0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.14	765.5	30.23	767.8	67	19.4	93	n.	2	0.9			fg.			0	0	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	30.02	762.5	28	— 2.2	77	sw.	6	2.7		0	sk.			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.89	759.2	30.13	765.3	61.0	16.1	87	s.	1	0.4		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.84	732.5	30.06	763.5	62	16.7	78	s.	1	0.4		0	7 s		sw.	0	0	fair	W. M. Mattingly
Sitka, Alaska	29.62	752.3	29.68	753.9	52	11.1	83	calm	0	0			10 s			0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.65	753.1	30.12	765.0	63.5	17.5	78	ne.	2	0.9			10 s		sw.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.20	767.1	30.24	768.1	69.3	20.7	92	s.	3	1.3		1 cs	hz.			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	30.00	762.0	39	3.9	73	calm	0	0			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.43	747.5	30.10	764.5	51	10.6	66	ne.	5	2.2		hz.	1s;hz		w.	0	0	dense haze	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.07	687.6	30.03	762.7	66	18.9	90	se.	3	1.3			10 n			0.02	0.5	light rain	Louis Dorman.
Thomas, Camp, Arizona					57	13.9	49	s.			1	1 cs	5 s			0	0	fair	R. C. Lord.
Toledo, Ohio	29.42	747.3	30.10	764.5	47	8.3	77	n.	6	2.7		hz.	sk.			0	0	dense smoke	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.69	754.1	29.71	754.6	38	3.3	82	se.	4	1.8		0	0			0.36	9.1	clear	Samuel Applegate.
Verde, Fort, Arizona					56	13.3	42	nw.			1	0	0			0	0	clear	E. B. Montgomery.
Vicksburg, Mississippi	29.95	761.0	30.21	767.3	62.5	16.9	81	s.	3	1.3		1 c	hz.	w.		0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C	29.98	761.5	30.09	764.3	61.7	16.5	86	sw.	1	0.4			9s;hz		sw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.12	663.4	29.94	760.5	43	6.1	80	w.	7	3.1		0	2 s			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.23	767.8	68.0	20.0	90	calm	0	0		2 k	hz.			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.80	731.5	30.09	764.3	38.3	3.5	82	e.	10	4.5		hz.	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.70	754.4	29.84	757.9	70.0	21.1	70	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		ne.			1		8 n		ne.	0.12	3.0	drizzling	W. H. Jackson.
Bogota, U. S. C	22.06	560.2			53.2	11.8	71	w.	2	1			10 s		sw.	0.12	3.0		Joaquin Gomez.
Kingston, Jamaica, W. I			30.05	763.3	78.0	25.6	84	calm	0	0		3 cs	1 s	e.	e.	0	0	fair	Robert Johnstone.
Paramaribo, S. A	30.03	762.7	30.03	762.7	80	26.7	82	s.			2	5 k	0	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C	29.40	748.3	30.02	762.5	77	25.0	89	calm			0		10 ks		calm	0.22	5.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					76	24.4	90	ne.			1	9 ck				0.08	2.0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Tura Factory, B. A	29.92	760.0	29.98	761.5	21.5	— 5.8	100	n.	13	5.8			10 n		n.	0.01	0.3	snowing	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 40° 23′, E. 22° 45′	30.04	763.0	81	27.2	59	wnw.			1		2	wnw.				sm'h		d. clouds.
H. M. S. Coquette, N. 36° 48′, E. 10° 20′	29.91	759.7	79	26.1		ne.			1		0					sm'h		blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.18	766.6	78	25.6	78	ne.			4		8	ne						d. clouds.
H. P. M. S Douro, St. Thomas, W.I	29.96	761.0	84.2	29.0	81	ssw.			2		8	sw.				2	sw.	d. clouds.
H. M. S Himalaya, N. 36° 26′, W 0° 52′	29.93	760.2	78	25.6	82	nne.			3–5		8	ene.				2	nne.	d. clouds.
H. M. S. Iris, off Port Said, Egypt	29.84	757.9	83	28.3	79	ene.			2		1							blue sky.
H. M. S. Tenedos, Salt Water Ponds, N.F.	29.93	760.2	55	12.8	74	sw.			3		7	sw.						d. clouds.
H. M. S. Tyne, N. 10° 47′, W. 21° 26′	30.02	762.5	83	28.3	75	calm			0		2	calm				1	sew.	misty.
U. S. Navy Yard, Portsmouth, N. H*	29.84	757.9	60	15.6	88	wsw.	10	4.5			0			0	0			hazy.
U. S. S. Alliance, Eastport, Maine	29.85	758.2	58	14.4	88	sw.			5		10		calm	mist	mist	sm'h		overcast.
U. S. S. Galena, N. 35° 17′, W. 74° 40′			77	25.0	100	ene.			5		10		ene.			r'gh	ene.	squally.
U. S. S. Jamestown, N. 21° 55′, W. 33° 15′	30.15	765.8	77	25.0	82	n.			5		2					sm'h	ene.	clear.
U. S. S. Kearsarge, Lisbon, Portugal	30.23	767.8	69	20.6	61	nne.			4		8		nne.					fair.
U. S. S. Lancaster, Cadiz, Spain	30.05	763.3	69	20.6	95	wnw.			3		0					sm'h		clear.
U. S. S. Portsmouth, Newport, R.I	29.97	761.2	63	17.2	100	w.			3		2							hazy.
U. S. S. Powhatan, N. 46° 23′, W. 59° 41′	30.03	762.7	52	11.1	86	sw.			5–6		0							clear.
U. S. S. Quinnebaug, Leghorn, Italy	29.93?	760.2?	71	21.7	85	s.			5		10		n.			r'gh	nw.	cloudy.
U. S. S. Saratoga, Bristol, R.I	30.00	762.0	67	19.4	89	wsw.			2		5?		wsw.	light	light	sm'h		fair?
U. S. S. Swatara, N. 44° 45′, W. 62° 35′	30.07	763.8	58	14.4	88	sw.			4		8		sw.	0	0	r'gh	sw; w	fair.
U. S. S. Vandalia, Boston, Mass.			63	17.2	89	wsw.			2		8							fair.
U. S. S. Yantic, N. 40° 50′, W. 69° 38′	30.05	763.3	62	16.7	94	sw.			3–4		5					mod.	w.	hazy.
S. S. British Crown, N. 50° 47′, W. 22° 34′†	30.16	766.1	58	14.4		nw.			6		4		nw.	6 h'r	6 h'r	high	w.	clear.
S. S. British Prince, N. 44° 04′ W. 59° 00′			54	12.2		s.			4		3		nw	0	0			clear.
S. S. Lord Clive, N. 51° 16′. W. 12° 40′	29.81	757.2				nw.			6		5		nw.	5 h'r	5 h'r		wnw.	cloudy.
S. S. Ohio, Philadelphia, Pa†	30.03	762.7	59	15.0	100	w.			2		9			0	0			cloudy.
S. S. Circassian, N. 56° 25′, W. 26° 47′	29.82	757.4	50	10.0	72	wnw.			3		6		w.			6	w.	d. clouds.
S. S. Grecian, N 50° 20′. W. 58° 53′	29.76	755.9	50	10.0	100	ssw.			6		0			0	0			hazy.
S. S. Nova Scotian, N. 49° 52′, W. 41° 49′	30.29	769.4	58	14.4		ssw.			4		8		sw.			sli't	w.	fair.
S. S. Prussian, N. 55° 21′, W. 10° 43′	29.51	749.5	56	13.3		nw.			4		9		nw.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Scandinavian, N. 45° 33′, W. 50° 06′	30.30?	769.6?	51.5	10.8		sse.			3	cs				0	0	con.	var.	blue sky.
S. S. Jason, N 49° 38′, W. 25° 42′ †	30.34	770.6	57.2	14.0		nw.			4	4 c	0					3	nw.	clear.
S. S. Alvo, Port Limon, Costa Rica. W.I*	29.95	760.7	74	23.3		calm			0		10		calm	2 h'r	2 h'r	long	ese.	drizzling.
S. S. Avilla, Kingston, Jamaica, W. I*†	30.06	763.5	79	26.1		n.			1		0			0	0	sm'h		
S. S. Assyria, N. 40° 04′ W. 43° 19′	30.20	767.1	75	23.9	100	se.			3		5		sw.	0	0	sm'h		fine.
S. S. Devonia, N. 49° 44′. W. 37° 11′ *†	30.35	770.9	54	12.2		se.			1		0					mod	w; s.	fine.
S. S. Dorian, N. 38° 50′, E. 0° 20′	29.97	761.2	72	22.2		n.			6		4		n.	0	0	rg'h		fine.
S. S. Furnessia N. 51° 15′, W. 14° 36′†	29.83	757.7	61	16.1	82	nw.			7		7		w.	4 h'r	4 h'r	mod.	nw.	cloudy.
S. S. Gallia, N. 44° 44′, W. 44° 29′	30.20	767.1	64	17.8	78	ne.			5		5		nw.	0	0	mod	w.	fair.
S. S. Canada, N. 49° 41′, W. 16° 10′ *	29.88	759.0	57.2	14		nw.			6		k		nw.	0	0	r'gh	nw.	clear.
S. S. France, N. 4c° 57′, W. 62° 49′†	30.13	765.3	68.0	20		calm			0		0			0	0	sm'h	sw.	
S. S. Wisconsin. N 48° 23′, W. 42° 11′ *	30.32	770.1	58	14.4		w.			2		5		w.	0	0	long	wsw.	fair.
S. S. Wyoming, N. 44° 17′, W. 56° 02′	30.20	767.1	63	17.2		ssw.			2		0			0	0	mod.	sw.	clear.
S. S. Bohemia, N. 52° 08′, E. 4° 18′ †	29.55	750.6				wnw.			5		8		wnw.	2 h'r	2 h'r	long	wnw.	cloudy.
S. S. Frisia, N. 40° 36′ W. 69° 20′	30.03	762.7				sw.			5		3		wsw.	0	0	mod.	sw.	fair.
S. S. Gellert, Hamburg, Germany			58	14.4	76	w.			4		8		w.	5 h'r	5 h'r			fair.
S. S. Rugia, New York, N.Y	30.03	762.7																
S. S. Silesia, N. 49° 52′, W. 17° 00′			57	13.9		nw.			7		9		nw.	9 h'r	9 h'r	h'vy	nw.	stormy.
S. S. Westphalia, N. 50° 59′, W. 17° 49′	29.89	759.2	56	13.3	94	nw.			6		3		nw.	0	0	r'gh	nw.	squally.
S. S. Rhaetia, N. 48° 44′ W. 36° 47′ *	30.29	769.3	56	13.3		ene.			1–2		0			0	0	sm'h	w.	clear.
S. S. City of Paris. N. 50° 48′ W. 22° 10′ *	30.14	765.5				wnw.			7		5?		nw.	6 h'r	6 h'r	h'vy	wnw.	clear ?
S. S. Archimedes, N. 51° 49′, W. 7° 24′	29.55	750.6				wsw.			4		8		w.	7 h'r	7 h'r	sm'h		hazy.
S. S. Hevelius. N. 50° 37′, W 0° 00′			62	16.7		wnw.			6		8		w.	0	0	mod.	w.	cloudy.
S. S. Sirius, N. 9° 16′, W. 27° 22′	29.99	761.7				e.			2		3		e.	1 h'r	1 h'r	mod.	se.	clear.
S. S. Rio Grande, N. 34° 24′, W. 76° 05′†	30.27	768.8	82	27.8		w.			1		3		w.	0	0	sm'h		clear.
S. S. Chalmette, N. 28° 12′, W. 88° 00′†	30.18	766.6	81	27.2		e.			3		3		e.	0	0	sm'h		clear.
S. S. New York, N 34° 45′ W. 75° 45′ *†	30.22	767.6	76	24.4		sw.			3		3		wsw.	0	0	sm'h		clear.
S. S. Alleghany, Norfolk, Va†	30.21	767.3	64	17.8		sw.			2		4		sw.	0	0			fair.
S. S. Archimede, N. 35° 35′, W. 9° 20′†	30.18	766.6	72	22.2		nnw.			5		1		nnw.	0	0	h'vy	nnw.	clear.
S. S. City of Merida, Vera Cruz, Mexico *†	30.04	763.0	82	27.8		nw.			2		10		nw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. City of Washington, Havana Cuba *†	30.05	763.3	83	28.3		ne.			4		5		ne.	1 h'r	1 h'r	sm'h		fine.
S. S. Cienfuegos, N. 21° 38′, W. 74° 17′ *	30.02	762.5	84	28.9		e.			3		2		ene.	0	0	gentle	ene.	fine.
S. S. Canada, N. 48° 52′, W. 26° 56′			56	13.3		wnw.			3		5?		wnw.	shr's	shr's	h'vy	wnw.	clear.?
S. S. Denmark, N. 40° 26′. W. 70° 30′			62	16.7		sw.			4		4			0	0	sm'h		hazy.
S. S. Egypt, N. 48° 16′, W. 34° 48′	30.39	771.9	59	15.0		e.			3		5		e.	5 h'r	5 h'r	h'vy	w.	fair.
S. S. Helvetia, N. 42° 11′, W. 57° 36′	30.16	766.1	66	18.9	84	wsw.			2		5		wsw.	0	0	sm'h	wsw.	fair.
S. S. America, Start Point, Eng*	29.71	754.6	61.0	16.1	88	sw.			6		8		sw.	2 h'r	2 h'r	mod.	sw.	raining.
S. S. Elbe, N. 43° 00′, W. 60° 45′	30.17	766.2	58.1	14.5	94	sw.			3		2?		sw.	0	0	sm'h	sw.	cloudy?
S. S. Fulda, N. 40° 53′, W. 68° 55′	29.98	761.6	62.6	17.0	95	sw.			4		8		sw.	0	0	sm'h	sw.	cloudy.
S. S. Hohenstaufen, N. 8° 43′, W. 27° 52′	30.00	762.0	81.5	27.5	100	calm			0		10			sh'rs	sh'rs	sm'h		covered.
S. S. Oder, N. 47° 22′, W. 34° 06′	30.37	771.4	60.8	16.0		ene.			4		5		ene.	0	0	mod.	wnw.	fair.
S. S. Ohio, off Terschelling Netherlands	29.49	749.0				sw.			6		8		wnw.	3 h'r	3 h'r	long	var.	rainy.
S. S. Rhein, N. 40° 36′, W. 66° 27′	30.10	764.5	70.7	21.5		ssw.			3		2		sw.	0	0	mod.	sw.	clear.
S. S. Salier, N. 50° 36′, W. 17° 15′*	29.93	760.2	57.2	14.0	72	nw.			6		7		nw.	7 h'r	7 h'r	high	nw.	fair
S. S. Strassburg, N. 48° 06′, W. 40° 47′	30.31	769.9	61.0	16.1	48	se.			2		9		sse.	0	0	3	wsw.	cloudy.
S. S. Werra, N. 51° 57′, E. 2° 46′	29.63	752.6	57.2	14.0		w.			1–2		2		w.	0	0	sm'h	wnw.	clear.
S. S. Weser, N. 28° 21′, W. 92° 54′	30.19	766.8	80.6	27.0		e.			3		10		se.	0	0	mod.	ese.	cloudy.
S. S. City of Augusta, New York, N.Y†	29.98	761.5				ssw.			2		8		s.	0	0			smoky.
S. S. Muriel, St. Thomas, W.I			84	28.9		ene.			1		0			3 h'r	3 h'r	sm'h		clear.
S. S. Orinoco, Bermuda, Atlantic *†	30.18	766.6	80	26.7		ene.			4		6		ene.	½ h'r	½ h'r			fair.
S. S. Belgenland, N. 48° 55′, W. 34° 00′ †	30.44	773.2	55	12.8	87	n.			3		1		calm	0	0	long	nw.	clear.
S. S. Pennland, New York, N. Y			59	15.0	94	sw.			3		1		sw.	0	0			clear.
S. S. Vaderland, Antwerp, Belgium			60	15.6		wsw.			6		8		nw.	2 h'r	2 h'r			showery.
S. S. Waesland, Antwerp, Belgium			58	14.4		sw.			6		8			2 h'r	2 h'r			cloudy.
S. S. P. Caland, N. 41° 18′, W. 64° 20′	30.15	765.8	60.8	16	87	s.			3		5		sw.			4	s.	fair
S. S. W. A Scholten, N. 49° 54′, W. 22° 38′	30.19	766.8	56.3	13.5	77	nw.			6		8		nw.	8 h'r	8 h'r	6	wnw.	cloudy.
S. S. Caracas, N. 27° 05′, W. 69° 56′ *†	30.21	767.3	83	28.3	81	ene.			4		2		calm	0	0	mod.	ene.	clear.
S. S. Valencia, N. 19° 54′, W. 68° 29′ †	30.10	764.5	84	28.9	83	ene.			2		3		se.	1 h'r	1 h'r	light	e.	clear.
S. S. State of Nevada, Glasgow, Scotland			52	11.1		s.			2		10		sw.	5 h'r	5 h'r			cloudy.
S. S. State of Nebraska, N. 49° 32′, W. 42° 00′*†	30.25	768.3	56	13.3		sw.			3		2		w.	0	0	con.		clear.
S. S. Thingvalla, N. 53° 42′, W. 38° 09′ †	30.21	767.3	55.4	13.0		sw.			3		2		sw.	0	0	cross	sw.	clear.
S. S. Romano, N. 42° 46′, W 52° 07′			60	15.6		ese.			1		3		nnw.	0	0	sm'h		clear.
S. S. Salerno, N. 50° 20′, W 3° 13′ *†	29.82	757.4	56	13.3		sw.			4		10		w.	0.5	13.	sm'h	w.	raining.
S. S. Oregon, Quebec, Canada	29.92	760.0																
S. S. Lake Huron, N. 55° 59′, W. 12° 25′	29.42	747 8	63?	17.2?		wnw.			3		5		wnw.	6 h'r	6 h'r	mod.	wnw.	showery.
S. S. Lake Manitoba, N. 48° 50′, W. 60° 10′	29.74	755.4	50	10.0		ssw.			6		5		sw.	4 h'r	4 h'r	short	sw.	fair.
S. S. Daniel Steinmann, N. 50° 05′, W. 4° 10′*†	29.72	754.9				w.			6		10			0	0	h'vy	w.	heavy squ'lls
S. S. Saxon, N. 39° 20′, W. 74° 15′ †	30.07	763.8				wsw.			2		b			0	0			cloudy.
S. S. Britannic, N. 50° 00′ W. 27° 20′†	30.27	768.8	64	17.8		nnw.			4		2		w.	6 h'r	6 h'r	mod.	wsw.	d. clouds.
S. S. Celtic, N. 42° 58′ W. 59° 52′†	30.16	766.1	64	17.8	67	w.			1		0			0	0	sm'h		clear.
S. S. Republic, N. 40° 32′, W. 68° 56′ *†	30.05	763.3	64	17.8		sw.			6		8		wsw.	0	0	mod.	wsw.	misty.
S. S. Assyrian Monarch, English Channel	29.74	755.4				wnw			9		4		wsw.	3 h'r	3 h'r	mod.	wsw.	fair.
S. S. Algiers, N. 36° 25′ W. 74° 49′ *†	30.20	767.1	72	22.2		sw.			1							sm'h		cloudy.
Bk. Arda, N. 44° 40′, W. 15° 56′ †	30.16	766.1				wnw.			2		2?		wnw.	0	0	mod.	wnw.	cloudy.
Bk. Alpheus Marshall, N. 22° 54′, W. 26° 19′*†	30.10	764.5	78	25.6	95	e.			5		7		ese.	1 h'r	1 h'r	sm'h		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 43° 39′, W. 54° 48′	30.26	768.6	62	16.7	77	se.			1		1			0	0	mod.	sw.	clear.
Schr. Arthur Burton, Lincolnville, Maine†	29.87	758.7				sw.			2		2		w.	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Oaves Cove, Mass†	29.91	759.7	60	15.6		wnw.			3									clear.
S. S. Antonio Lopez, Santander, Spain	30.19	766.8	63.5	17.5	70	w.			0		10			4 h'r	4 h'r	mod.	w.	cloudy.
Bk. Adelaide, N. 8° 00′, W. 32° 18′†*	30.04	763.0				calm			0		0			1 h'r	1 h'r	mod.	s	hazy
Bg. Belle of the Bay, N. 28° 25′, W. 90° 04′†	30.16	766.1				ene.			5		5		ne.	0	0	short	ene.	fair.
S. S. Cannonbury, N. 36° 57′, W. 70° 27′*†	30.17	766.3				sw.			2		6		sw.	0	0	sm'h		fair.
Bk. Ceylon, N. 27° 10′, W. 39° 48′†	30.21	767.3	84	28.9	79	se.			5		7?		ese.	1 h'r	1 h'r	r'gh	se.	clear.?
Schr. C. R. Flint, N. 21° 13′, W. 54° 47′†	30.03	762.7	84	28.9		se.			2		3		se.	0	0	mod.	ene	clear.
Bk. Don Justo, N. 45° 30′, W. 54° 54′						wsw.			1		1		wsw.	0	0	sm'h	wsw.	clear.
Bk. Childwall, N. 7° 58′, W. 23° 54′			83	28.3	83	sw.			2		9		sw.	0	0	sm'h		overcast.
Bkt. David A. Preston, N. 43° 28′, W. 70° 00′						sw.			5		8k.			0	0	r'gh	sw.	smoky.
Bk. Diamant, N. 40° 59′, W. 46° 54′	30.17	766.3	71.2	21.8	92	e.			3	6 c		sse.		0	0	3	sw.	fair.
S. Dynomine, N. 37° 38′, W. 16° 35′	30.37	771.4	69.5	20.8	77	ne.			3		6			0	0	mod.	nnw.	misty.
S. David Stewart, N. 3° 13′, W. 68° 41′†	30.11?	764.8?	91?	32.8?		var.			1		5		e.	0	0	long	ene.	
S. E. J. Spicer, Antwerp, Belgium	29.58	751.3	60	15.6	94	wsw.			5		10		wsw.	6 h'r	6 h'r			cloudy.
Schr. Edith R. Seward, N. 34° 10′, W. 75° 50′†	30.27	768.8	79	26.1		nw.			1		4		ne.	0	0	rg'h	e.	clear.
Bk. E. D. Bigelow, Galveston, Texas†	30.15	765.8	81	27.2		calm			0		0			0	0			hazy.
U. S. Fish. Com. S.S. Fish Hawk, Woods Holl, Mass†	30.02	762.5	64	17.8		sw.			5		4		sw.	0	0	mod.	sw.	fair.
S. Gatherer, N. 29° —′, W. 30° 55′*	30.23	767.8	83	28.3	79	sse.			2		5		ne.	0	0	sm'h	ne.	fair.
Bg. George, Salinas, Porto Rico, W. I.*†	30.03	762.7	82	27.8		ne.			1		0			0	0			clear.
Bk. Galeon, N. 25° 00′, W. 24° 50′†	30.13	765.3	77	25.0		ene.			4		3		ese.	0	0		nw.	blue sky.
Bk. Grey Eagle, N. 7° 54′, W. 30° 50						sw.			1		2			1 h'r	1 h'r	short	ssw.	clear.
S. Hedwig, N. 23° 47′, W. 27° 14′	30.15	765.7	80.8	27.1	78	ene.			4		5			0	0	3	ene.	hazy.
Bk. Johanne, N. 44° 55′, W. 54° 25′*†	30.20	767.1	58	14.4		sw.			3		5		sw.	0	0	mod	wsw.	fine.
Schr. Jennie N. Huddell, N. 34° 22′, W. 76° 18′†	30.25	768.3	78	25.6	91	w.			2		2		nw.	0	0	short	se.	fair.
Bk. John H. Pearson, N. 37° 47′, W. 0° 26′						ne.			5				ne.			r'gh		clear.
Schr. Jas. Slater, N. 16° 13′, W. 56° 20′†	30.04	763.0				e.			5		10		e.	½h'r	½h'r	sm'h	nne.	
Bg. Josefa, N. 46° 30′, W. 44° 20′†	30.30	769.6				nne.			2		2		ne.	0	0	h'vy	w.	fair.
Bkt. Kryolith, N. 45° 34′, W. 54° 33′ *†	30.20	767.1				s.			4		2		ssw.			mod.	wsw.	clear.
Bk. Lady Hincks, N. 22° 30′, W. 45° 20′*†	30.10	764.5							2–5					rain	rain			fair.
Bg. L. & W. Armstrong, N. 29° 49′, W. 08° 59′*†.	30.16	766.1				calm			0		1		se.	0	0	sm'h	ene.	fine.
S. S. Madrid, Taganrog, Russia †	30.02	762.5	65	18.3	78	n.			1		0			0	0			clear.
Bk. Matilda C. Smith, N. 38° 48′, W. 67° 03′*†	30.22	767.6				wsw.			4		4		w.	c	0	mod.	wnw.	fine.
Bk. Orpheus, N. 38° 45′, W. 60° 53′	30.19	766.8	78	25.6		sw.			2		5ck	sw.		0	0	sm'h		fair.
Schr. Robin Sanford, Santo Rosa Sound, Fla†	30.20	767.1				ne.			5		0			0	0			clear.
Bg. Rising Sun, N. 39° 02′, W. 71° 36′†	30.02	762.5	72	22.2		sw.			0		1		sw.	0	0	mod.	s.	clear.
Bk. Rosalie, N. 38° 42′, W. 15° 35′*†	30.35	770.9				n			4		0			20 minutes		long	n.	clear.
Schr. S. B. Hubbard, N. 33° 29′, W. 77° 28′†	30.26	768.6	73	22.8		calm			0					0	0	long	ne	fine.
Bk. Saga, N. 55° 49′, E. 15° 40′			60	15.6		ssw.			3		8		ssw.	0	0	sm'h		hazy.
S. Salisbury, N. 39° 09′, W. 58° 03′	30.19	766.9	70.3	21.3	79	calm			0		0?			0	0	light	nw.	fair.?
Bgt. Sunlight, N. 29° 00′, W. 71° 09′*†	30.20	767.1				e.			2		2		e.	0	0	cross	e; w.	clear.
Bk. Samuel B. Hale, N. 35° 00′, W. 55° 40′*†	30.28	769.1				w.			3		5		w.	0	0	long	w;ne	fair.
Bk. Sunbeam, N. 38° 47′, W. 05° 20′†	30.22	767.6	74	23.3	90	sw.			5		0		sw.	0	0	mod.	wsw.	fair.
Bk. Scud, N. 31° 40′, W. 61° 00′*†	30.23	767.8	84	28.9		nne.			4		9		nne.			mod.	ne.	light rain.
S. S. Tower Hill, N. 48° 25′, W. 33° 06′						n.			3		2		nnw.			long	wnw.	fair.
Schr. Viola Reppard, Brunswick, Ga†	30.15?	765.8?	78	25.6		e.			1		2		e.	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.06	763.5	75.5	24.2	90	wnw.			2		8	wnw.				1	sse.	showery
H. M. S. Opal, S. 11° 09′, W. 10° 40′	30.11	764.8	74	23.3	80	sse.			3–5		5	wnw.				7	ese.	d clouds
H. M. S. Sylvia, Maldonado, Uruguay	30.16	765.8	53	11.7	97	se.			2		10							overcast.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.95	760.7	77.9	25.5	77	s			3		9	s.		0	0	2		gloomy.
U. S. S. Brooklyn, Montevideo, Uruguay *	30.16	766.1	54	12.2	87	ne.	6	2.7			10		ne.	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.14	765.5	53	11.7	80	nne.			2		2					mod.		fair.
S. S. Tenedos, S. 13° 05′ W. 33° 42′	30.15	765.8	77	25.0	84	ene.			4		4 k			0	0	2	s.	d. clouds.
Bk. Aurora, S. 8° 04′, W. 34° 50′†	30.00	762.0	92	33.3		ese.			3		3		se.	0	0	mod.	se.	clear.
Bk. E. L. Pettingill, S. 30° 13′, W. 40° 10 *†	30.10	764.5	63	17.2		sw.			5		2		sw	0	0	r'gh	sw.	fair.
Bk. Great Surgeon, S. 39° 49, E. 16° 30′ *†	29.75	755.6	61	16.1		wnw.			5		9		wnw.	0	0	cross	s;ne.	cloudy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.09	764.3	55	12.8		e.			1		8		s.	0	0			fair.
Bk. Pilgrim, S. 28° 10′, E. 7° 15′*†	30.15	765.8				wnw.			4		3		w.	0	0	mod.	se.	clear.
Bgt. Willie, S. 19° 45′, W. 38° 05′ *†	30.10	764.5	81	27.2		nne.			4		7		nne.	0	0	mod.	ne.	fair.
Bk. Monican, S. 24° 50′, W. 20° 30′	30.01	762.2	72	22.2		n.			4		5		wnw.	0	0	long	sw.	fair.
S. S. Olbers, S. 9° 43′, W. 35° 09′	30.18	766.6	78	25.6	91	ene.			5		3		e.	½h'r	½h'r	sli't	e.	fine.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	29.97	761.2	61	16.1		nnw.			1		7	wsw.						d. clouds.
Bg. John Wesley, Natal, Rio Grande do Norte, Brazil*†	29.97	761.2	80	26.7		se.			4		1		se.	¾ h'r	¾h'r			squally.
District No. 3—North Pacific.																		
H. M. S. Audacious, Hakodai, Japan	30.24	768.1	62	16.7	88	calm			0		0					sm'h		blue sky.
H. M. S. Cleopatra, N. 37° 44′, E. 130° 50′	30.04	763.0	66	18.9	68	sse.			2		2					1		blue sky.
H. M. S. Flying Fish, N. 37° 35′, E. 121° 29′	30.07	763.8	71.8	22.1	54	s.			2–4		3	s.				1	s.	squally.
H. M. S. Magpie, N. 5° 56′, E. 110° 53′	29.89	759.2	79.5	26.4	86	nw.			2		2							blue sky.
H. M. S. Zephyr, N. 42° 31′, E. 131° 53′	30.20	767.1	59	15.0	?	sw.			1		2	se.						blue sky.
H. P. M. S. Tamega, Canton, China	30.01	762.2	83.7	28.7	87	calm			0		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.28	769.1	62.5	16.9	86	n.			4		5		n.	sli't	sli't			clearing.
U. S. S. Essex, Roze Island, Corea	30.16	766.1	71	21.7	75	calm			0		2					sm'h		clear.
U. S. S. Hartford, N. 9° 25′, W. 84° 23′*	29.85	758.2	80	26.7	87	e.			2		5			0	0	sm'h		
U. S. S. Juniata, N. 7° 32′, E. 108° 11′	29.91	759.7	84	28.9	100	w.			2		5			0	0	long	nw.	fair.
U. S. S. Monocacy, Hunnam Island, China	30.20	767.1	68	20.0	84	nnw.			1		2		calm			sm'h		fair.
U. S. S. Palos, Canton, China	30.04	763.0	82	27.8	79	calm			0		0							clear.
U. S. S. Pensacola, N. 22° 15′, E. 155° 10′ *	29.94	760.5	83	28.3	79	ene.			4		2		ene.	light	light	mod.	ne.	clear.
U. S. S. Richmond, Yokohama, Japan	30.24	768.1	64	17.8	89	n.			4		5		s.	0	0			fair.
S. S. Oceanic, N. 38° 04′, W. 125° 41′	29.98	761.5	65	18.3	94	s.			4–5		8		sw.	0	0	4	sw.	gloomy.
S. S. Oregon, San Francisco, Cal†	30.03	762.7	55	12.8	100	calm			0									foggy.
S. S. Willamette, N. 44° 48′, W. 124° 50′ †	29.89	759.2	63	17.2	89	sse.			3		10		s.	0	0	sm'h		cloudy.
S. S. Ancon, N. 32° 47′, W. 117° 25′†	29.96	761.0	65	18.3	89	var.			1		10					light	wsw.	foggy.
S. S. State of California, San Francisco, Cal †	30.02	762.5	53	11.7	100	calm			0		10							foggy.
S. S. Queen of the Pacific, N. 45° 50′, W. 124° 01′ †	29.93	760.2	60	15.6	100	se.			4		3			rain	rain	long	se.	foggy.
S. S. Victoria, off Columbia River, Oregon†	29.88	758.9	58	14.4	88	ese.			4		5		se.			mod	wsw.	hazy.
S. S. City of New York, N. 20° 28′ W. 140° 09′†	30.01	762.2	76	24.4	82	sw.			5		8?		sw.			mod.	wnw.	cloudy.?
S. S. City of Pekin, N. 29° 25′, E. 127° 25′†	30.18	766.6	74	23.3	76	ne.			3		2		n.	0	0	sm'h		clear.
S. S. City of Tokio, N. 25° 40′, E. 122° 52′†	30.06	763.5	70	24.4	95	ene.			5		5		ene.	1 h'r	1 h'r	small	ene.	fine.
S. S. City of Rio de Janeiro, N. 35° 45′, E. 162° 00′†	30.29	769.4	73	22.8	72	n			4		5		nne.	0	0	h'vy	n.	fair.
S. S. Granada, Panama, Panama †	29.92	760.0	77	25.0	95	n.			1		10?		n.	2 h'r	2 h'r			clear.?
S. S. San Blas, N. 15° 00′, W. 94° 50′†	29.93	760.2	81	27.2		n.			0		10		n.	0	0	r'gh	n.	cloudy.
S. S. Zealandia, N. 29° 33′, W. 142° 10′†	29.93	760.2	76	24.4	91	wsw.					0					sm'h		clear.
S. S. San Juan, N. 31° 30′, W. 117° 42′			60	15.6		nw.			3		fg.		nw.	0	0	long	nw.	foggy.
S. Armenia, N. 0° 06′, W. 121° 00′ *	29.92	760.0	73	22.8	90	ese.			2		4			0	0	sm'h	sse	hazy.
S. Storm King, N. 13° 28′, W. 118° 37 *†	29.93	760.2				ne.			5		2		ne.	0	0	r'gh	var.	
S. St. David, N. 37° 40′, W. 123° 55′			59.3	15.2	94	se.			4		10		se.	0	0	long	var.	gale.
S. E. B. Sutton, N. 19° 10′, W. 120° 40′*†	29.96	761.0	75	23.9	81	nne.			3		5		ne.	0	0	sm'h		
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.95	760.7	79.3	26.3	93	calm			0		4					sm'h		d. clouds.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
H. M. S. Mutine, S. 2° 15′, W. 82° 05′	30.01	762.2	65	18.3	.....	s.	.....	.....	3	.....	10	.....	.....	.....	.....	4	s.	overcast.
U. S. S. Iroquois, Callao, Peru	30.09	764.3	61	16.1	88	se.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
U. S. S. Lackawanna, S. 21° 42′, W. 70° 52′*	30.09	764.3	59	15.0	70	s.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Onward. Callao, Peru*†	30.14	765.5	60	15.6	88	sse.	.....	.....	1	.....	10	.....	sse.	.....	.....	.....	.....	cloudy.
U. S. S. Wachusetts, Mollendo, Peru*	30.13	765.3	59	15.0	88	ene.	.....	.....	1	.....	5	.....	calm	.....	.....	long	se.	fair.
S. S. City of Sydney, Sydney, N. S. W*†	30.30	769.6	54	12.2	74	s.	.....	.....	4	.....	6 n	.....	s.	.....	.....	.....	.....	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.10	764.5	68	20.0	.....	se.	.....	.....	4	.....	.....	.....	.....	0	0	long	se.	dense fog.
S. David Crocket, S. 54° 19′, W. 88° 40′*	29.52	749.8	44	6.7	92	ne.	.....	.....	7	.....	10	.....	ne.	5 h'r	5 h'r	r'gh	ene.	raining.
Bk. Godeffroy, S. 60° 36′, W. 71° 14′	29.60	751.8	.....	.....	97	s.	.....	.....	3	.....	8	.....	s.	0	0	mod.	var.	light fog.
S. Sovereign of the Seas, S. 20° 56′, W. 87° 48′*†	30.25	768.3	62	16.7	100	se.	.....	.....	2	.....	10	.....	se.	10 h'r	10h'r	long	sw.	rainy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 08′, E. 57° 29′	30.13	765.3	.....	.....	.....	sse.	.....	.....	2	.....	6	ese.	.....	.....	.....	3	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	29.96	761.0	79	26.1	82	ssw.	.....	.....	3	.....	2	ssw.	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.99	761 7	80	26.7	82	sse.	.....	.....	4	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.84	757.9	98.5	36.9	37	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Galatia, Calcutta, India	29.76	755.9	83	28.3	88	se.	.....	.....	2	.....	9	.....	se.	0	0	.....	.....	dull.
S. S. Benledi, N. 17° 30′ E. 40° 30′*	29.72	754.9	91.5	33.1	72	calm	.....	.....	0	.....	3	.....	sw.	0	0	sm'h	.....	

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 29, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	761.0	77.0	25.0	90	s.			2		0			0	0	clear	Roziere.
Algiers			29.92	759.9	75.2	24.0	61	nnw.			2		6			inap.	inap.	cloudy	Thève.
La Calle			29.89	759.1	78.4	25.8	63	nnw.			2		4			0	0	cloudy	Fonfrède.
Tunis			29.93	760.1	75.2	24.0	60	ne.			3		4			inap.	inap.	cloudy	Delord.
Saida			29.98	761.6															Pérès.
Tebessa			29.95	760.6	75.2	24.0	53	n.			1		3			0	0	pretty fair	St. Martin.
Geriville					77.0	25.0	1	nw.			4		1			0	0	very fair	Forfert.
Laghouat			30.00	762.0	85.3	29.6	31	n.			2		2			0	0	fair	Abraham.
Biskra			29.98	761.5	89.2	31.8	66	e.			1		1			0	0	very fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.34	770.6	58.6	14.8	55	calm	0	0			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.22	767.6	30.31	769.9	47.8	8.8	92	wsw.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.12	739.7	29.67	753.5	54.7	12.6	90	sw.			2		8			0.224	5.7		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.87	733.2	29.61	752.2	60.1	15.6	77	w.	3.8	1.7			10			0.220	5.6		Dr. Wierzbiski
Eperies	28.77	730.8	29.63	752.6	60.1	15.6	88	calm			0		10 s			0.043	1.1		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.28	718.4	29.65	753.0	71.8	22.1	44	s.			6		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.25	717.6	29.56	750.9	57.4	14.1	80	ne.			2		3			0	0		The Staff.
Lemberg	28.69	728.6	29.64	752.8	64.4	18.0	64	s.			3		10			0.008	0.2		Dr. T. Stanecki.
Pola	29.52	749.7	29.62	752.4	66.6	19.2	77	wnw.			4		3			0.827	21.0		I. R. Hydrographic Office.
Szathmar	29.14	740.1	29.58	751.4	70.5	21.4	51	s.			5		5			0	0		Joseph Midlinszky, S. J
Szegedin	29.34	745.1	29.61	752.0	64.9	18.3	72	s.			1		8			0	0		Karl Stuccel.
Trieste	29.57	751.1	29.67	753.6	60.8	16.0	77	e.			3		8			0.724	18.4		Royal Academy.
Vienna	28.93	734.8	29.63	752.7	57.9	14.4	78	se.			1		10			0.024	0.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	52.6	11.4	70	n.	20	8.9			9			0.030	0.8	overcast	W. Boswell.
Armagh, Observatory	29.24	742.7	29.48	748.8	53.2	11.8	79	nne.	17	7.6			7					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.28	743.7	51.8	11.0	90	n.	1.4	6.3			10					raining	John Harnup.
Bolton, Sharples	28.73	729.7	29.25	742.9	50.3	10.2	90	ne.	6	2.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	28.86	733.0	29.25	742.9	53.1	11.7	88	ne.			3		10			0.04	1.0	raining	McLandsborough & Preston
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	71	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H.C
Cardington	29.17	740.9	29.28	743.7	53.0	11.7	80	nw.			3.0		8					overcast	John McLaren.
Chatham, School M. E.	29.12	739.6	29.28	743.7	55.1	12.8	63	sw.			2		6			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.15	740.4	29.37	746.0	53.0	11.7	86	w.			4		9					showery	The Staff.
Fort Napier, Natal	27.44	697.0	29.65	753.1	87.8	31.0	24	e.			1		2					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.64	752.8	29.87	758.7	87.0	30.6	80	se.			4		2					lightning	J. W. Smith.
Galway, Queen's College	29.37	746.0	29.41	747.0	56	13.3	75	ne.			3		4			0.25	6.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.94	760.5	29.99	761.7	72.8	22.7	90	w.			5		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.26	743.2	29.46	748.3	56.8	13.8	63	nne.			3		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.10	739.1	29.27	743.4	57.0	13.9	61	wsw.			4		4					d. clouds	The Staff.
Guernsey	29.12	739.6	29.41	747.0	55.0	12.8	56	w.			5		10					overcast	A. Collenette, F. M. S
Kew, Observatory	29.24	742.7	29.27	743.4	56.1	13.4	62	w.	16	7.2			7					d. clouds	The Staff.
Leicester, Museum	28.96	735.6	29.21	741.9	50.0	10.0	93	w.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.82	757.4	81.4	27.4	64	sw.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.07	763.8	30.12	765.0	83.5	28.6	77	se.			2		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.72	729.5	29.24	742.7	48.1	8.9	97	wnw.			2		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.04	737.6	29.27	743.4	50.0	10.0	92	sw.			4		10					drizzling	The Staff.
Plymouth	29.27	743.4	29.34	745.2	54.2	12.3	83	w.			5		10					raining	John Merrifield.
Sandwick Manse, Orkneys	29.49	749.0	29.59	751.6	50.8	10.4	74						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.63	752.6	29.69	754.1	76.0	24.4	71	sw.			1		8					d. clouds	W. H. Lyne.
Sheffield	28.94	735.1	29.22	742.2	51.9	11.1	95	nne.			1		10			0.46	11.7	raining	W. F. Cooper.
Silloth Rectory	29.33	745.0	29.36	745.7	55.4	13.0	73	ene.			4		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.29	744.0	53.0	11.7	77	nne.	12	5.4			10			blank	blank	overcast	W. C. Carlisle.
Strathfield Turgiss					57.8	14.3	73	w.			2.3		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.25	742.9	29.32	744.7	56	13.3	87	nw.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.45	748.0	29.48	748.8	57.6	14.2	76	n.	28	12.5			7					squally	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.46	748.3	29.86	758.4	78.1	25.6	75	sw.	5.0	2.2		4 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.09	764.3	30.13	765.3	35	1.7	90	calm	0	0		1 cs	0			0.17	4.3	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.06	763.5	30.10	764.5	44	6.7	64	nw.	8	3.6		0	7 s		w.	0.120	3.0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.08	764.0	30.15	765.8	35	1.7	79	w.	3	1.3		0	0			0.06	1.5	clear	G. A. Blair.
Cornwall, Ontario	30.00	762.0	30.20	767.1	35.3	1.8	90	sw.			1	0	2 s			0.013	0.3	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.03	762.7	30.14	765.5	34.5	1.4		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T	27.89	708.4			13	—10.6	62	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.09	764.3	30.11	764.8	34	1.1	96	w.	10	4.5			7 s		w.			cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.13	739.9	29.99	761.7	27	— 2.8	77	n.	5	2.2		10 k		n.		0	0	cloudy	James Stewart.
Fredericton, N. B	30.12	765.0	30.19	766.8	34.0	1.1	90	w.	1.0	0.4		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.11	764.8	30.16	766.1	46	7.8	93	e.	3	1.3		0	7 ks		nw.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.06	738.1	30.19	766.8	40.0	4.4	91	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	29.99	761.8	30.12	765.0	47	8.3	89	nw.	5	2.2		0	5 s			0	0	fair	A. Allison.
Hamilton, Ontario	29.74	755.4	30.13	765.3	46.7	8.2	80	ne.			1	10 cs			ne.	0.05	1.3	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.88	758.9	30.23	767.8	38	3.3	79	calm	0	0		2 ck	0		w.	0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.01	762.2	30.05	763.3	49.0	9.4	85	e.			1		10 n			0.011	0.3	overcast	C. H. Rigby.
London, Ontario	29.24	742.7	30.16	766.1	41.7	5.4	83	calm	0	0			10 n			0	0	overcast	E. B. Reed.
Medicine Hat	27.83	706.9	30.14	765.5	40	4.4	48	calm	0	0		0	0			0	0	blue sky	John Ewart.
Montreal, Quebec*	29.99	761.7	30.20	767.1	39	3.9	82	w.	6	2.7		0	0			inap.	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.94	760.5	30.20	767.1	35.2	1.8	94	nnw.				0	8 ck			inap.	inap.	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.45	748.0	30.16	766.1	38	3.3	89	se.	7	3.1		2 k	5 ks		nw.	0.02	0.5	fair	Rev. R. Mosley.
Peterboro, Ontario	29.45	748.0	30.22	767.6	35.2	1.8	87	sw.			1	7 c	0			0	0	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.46	748.3	30.16	766.1	44	6.7	92	ne.	5	2.2			10 ks			0.03	0.8	cloudy	H. Morgan.
Port Stanley, Ontario	29.48	748.8	30.14	765.5	44	6.7	83	ne.	8	3.6			10 n		se.	0.01	0.3	cloudy	M. Payne.
Qu Appelle, N. W. T	27.83	706.9	30.29	769.4	10	—12.2	100	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.77	756.1	30.14	765.5	34	1.1	100	calm	0	0			10 k		n.			light snow	Capt. Asne, R. N.
Rockliffe, Ontario*	29.70	754.4	30.18	766.6	33	0.6	96	se.	3	1.3			7 s		w.	0.01	0.3	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.12	765.0	30.17	766.3	40	4.4	82	sw.	4	1.8		0	2 k			0	0	clear	
St. John, N. B	29.99	761.7	30.14	765.5	41.0	5.0	76	ne.	8	3.6		2 cs	0		sw.	0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.71	754.6	29.96	761.0	54	12.2	100	s.			1		10 n			0.17	4.3	cloudy	The Commandant.
Saugeen, Ontario*	29.43	747.5	30.16	766.1	38	3.3	89	se.	6	2.7			10 n			0.04	1.0	cloudy	
Stratford, Ontario	28.86	733.0	30.18	766.6	40.4	4.7	87	s.	2.0	0.9			10 s			0	0	d clouds	G. J. Macgregor, M. A.
St. Pierre, N. F			29.92	760.0	55.4	13.0		sw.			2					0.04	1.0		The Commandant.
S. W. Point, Anticosti	29.95	760.7	29.98	761.5	45	7.2	93	n.	3	1.3		0	0			0	0	clear	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
Sydney, C. B.	30.01	762.2	30.07	763.8	49	9.4	86	calm	0	0			10 n			0.01	0.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.83	757.7	30.22	767.6	39	3.9	70	nw.	3	1.3			10 s		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.13	739.9	30.22	767.6	41.6	5.3	83	e.	3.5	1.6			10 s			0.05	1.3	overcast	Prof. Wolverton, M.A.
Yarmouth, N. S*	30.09	764.3	30.16	766.1	46	7.8	89	ne.	2	0.9		7 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	61.0	16.1	77	w.	17.4	7.8			10 ks			0.090	2.3	cloudy	I. Garfelt.
Springbok Fontein	27.92	709.2			53	11.7	65									0.04	1.0		J. T. Eustace.
Chilian.																			
Coquimbo	29.96	760.9	30.04	762.9	57.2	14.0	93	n.			0	4 cs	0	w.				fair	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.47	748.5	29.58	751.2	50.0	10.0	92	w.			5	0	4 n		w.	0.189	4.8		Federico Köhling.
Punta Caldera	29.93	760.2	30.02	762.4	55.4	13.0	85	se.			1		8 n		se.			fair	Manuel Tobar.
Punta Corona	29.56	750.8	29.75	755.6				n.			8	10				0.535	13.6	cloudy	Ignacio Ayala.
Valparaiso	29.87	758.8	30.02	762.4	56.3	13.5	94	ne.			1							raining	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Sung-shu-chwang	25.34	643.6																	A. Guelny.
Zi-Ka-Wei, near Shanghai.	29.99	761.8	30.02	762.5	68.5	20.3	96	s.	3.4	1.5			10 n			0.378	9.6	raining	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.33	744.9	29.37	746.1	57.6	14.2	78	ssw.	13	6			10					hazy	Oversergent Fischer.
Fanoe	29.26	743.1	29.28	743.6	55.4	13.0	93	sse.	9	4			9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.94	760.4	29.98	761.5	45.7	7.6	82	e.	4	2			2						A. O. Thorlacius.
Thorshavn	29.94	758.0	29.87	758.6	49.1	9.5	72	ne.	18	8			7						Overloerer Bergh.
Vestervig	29.17	740.8	29.26	743.1	56.1	13.4	83	wnw.	4	2			6						Loerer Oesterbol.
Egyptian.																			
Cairo	29.75	755.7			89.1	31.7		nw.	9.4	4.2			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.22	742.1	29.78	756.4	60.1	15.6	100	wnw.			1		10		w.			raining	M. Labroue, Director.
Alençon, Normal School	29.22	742.2	29.73	755.2	55.0	12.8	77	sw.			4		8		ne.	0.205	5.2		M. Nicot, Director.
Avignon, Normal School	29.65	753.0	29.72	755.0	65.5	18.6	75	nw.			1		5		sw.	0.087	2.2	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.00	736.7	29.54	750.4	57.0	13.9	78	nw.			2		8 kn		nw.	0.291	7.4	cloudy	M. Saillard, Director
Beauvais, Normal School	29.18	741.1	29.43	747.6	59.4	15.2	73	w.			2		8		w.	0.374	9.5	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.67	728.1	29.53	750.1	57.2	14	78	s.			1					0.157	4.0		M. Gobin, Director.
Bordeaux, Observatory	29.50	749.4	29.76	756.0	63.0	17.2	51	wsw.			1		5		w.	0.390	9.9	cloudy	M. Rayet, Director.
Bourges, Normal School	29.05	737.8	29.59	751.5	59.9	15.5	49	sw.			6	c		sw.		0.16	4.		M. Malet, Director.
Brest, Naval Observatory	29.35	745.6	29.60	751.8	58.3	14.6	78	wnw.			4		8		wnw.	0.323	8.2		M. de Kermarée, Dir.
Caen, Normal School	29.39	746.4	29.47	748.5	52.2	11.2	82	sw.			1		8		sw.	0.354	9.0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'	29.15	740.3	29.46	748.2	57.9	14.4	68	wsw.			6		5			0.472	12.0	cloudy	M. Jadot, Director.
Charleville, Normal School	28.91	734.4	29.37	746.0	55.8	13.2	87	se.			2		8			0	0	¾ covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.33	719.5	29.66	753.3	58.1	14.5	61	w.			2		8			0.016	0.4		M. Alluard, Director.
Cluny, Normal School	28.83	732.2	29.66	753.3	59.4	15.2	63	w.			2				w.	0.374	9.5		M. de Villemontée, Dir.
Commercy, Normal School	28.67	728.1	29.51	749.5	53.6	12	87	w.			6		5 kn	w.	w.	0.516	13.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.22	691.4	29.71	754.6	66.2	19	61	s.			1		6 n			0.04	1.		M. Jarach, Director.
Gréasque, du Rhone	28.61	726.8	29.71	754.5	62.1	16.7	73	nw.			2		5		nw.	0	0		M. Kina, Director.
Grenoble. Normal School	28.93	734.8	29.69	754.1	55.4	13	88	sw.			1		10 n		w.			raining	M. Ablard, Directoor.
Guéret, Normal School	28.11	714.0	29.66	753.3	59.0	15	80	sw.			4		8 kn		sw.	0.256	6.5	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.23	742.4	29.50	749.4	59.9	15.5	93	w.			4		10		w.	0.24	6.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.28	743.7	29.91	759.6	62.6	17.0	73	sw.			1		10			0.362	9.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.48	748.8	29.58	751.4	59.0	15.0	66	wsw.			6		5	w.	w.	0.118	3.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.65	727.7	29.69	754.1	56.5	13.6	86	w.			1		10 n		w.	0.031	0.8	raining	M. André, Director
Mans, Normal School	29.19	741.4	29.49	749.0	56.3	13.5		w.			4		5 kn		nnw.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.44	747.8	29.71	754.6	64.6	18.1	71	wsw.			2–4		10		nw.	0	0		M. Stephan, Director.
Montlouis	24.91	632.7	29.75	755.7	56.3	13.5	41	e.	24.2	10.8			10	se.		0.181	4.6		M. Cave for Dr. Fines.
Montpellier, Normal School	29.61	752.2	29.72	754.9	68.0	20	65	wnw.			4		1	ssw.	se.	0.08	2.	light rain	M. Galzin, Director.
Nantes, Observatory	29.48	748.7	29.64	752.8	58.5	14.7	69	wsw.			2–4		9 n; kn		w.	0.398	10.1		M. Larocque, Director.
Perpignan, Observatory	29.66	753.3	29.77	756.1	65.8	18.8	47	nw.	24.2	10.8			8		sw.	0.102	2.6		Dr. Fines, Director.
Pic-du-Midi, Summit	21.08	535.3			27.7	– 2.4		nw.			2		10		nw.	0.276	7.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.67	728.2	29.71	754.6	62.6	17	61	s.			3		2 k			0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.80	630.0			36.1	2.3	100	w.			5		10			0.142	3.6		M. Alluard.
Rochefort, Naval Obs'y	29.69	754.2	29.72	755.0	61.9	16.6	63	wsw.			4		8		w.	0.157	4.0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.46	748.2	29.67	753.6	58.8	14.9	100	w.			6		8	w.	w.	0.504	12.8	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.66	702.6	29.81	757.1	49.6	9.8	81	nw.			1		10		ne.	0.197	5.0	raining	M. Seger, Director.
Rouen, Normal School	29.41	747.0	29.46	748.2	57.2	14	76	sw			6		5	sw.		0.650	16.5	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.35	745.4	29.51	749.6	56.3	13.5	66	ssw.			1		8		w.	0.323	8.2	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.13	739.8	29.85	758.1	63.3	17.4	55	w.			10		2	w.		0.228	5.8	slightly cl'dy	M. Baillaud, Director.
Tours	29.43	747.5	29.61	752.0	59.4	15.2	60	sw.			4		5	wnw.	w.	0.236	6.0	cloudy	M. de Tastes.
Versailles, Observatory	29.01	736.9	29.50	749.4	57.2	14.0	57	w.			6		5			0.193	4.9	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.75	755.6	29.90	759.4	64.4	18.0	68	nw.	21.7	9.7			4 k		w.	0.764	19.4		M. Cartier, Director.
German.																			
Ansbach	28.10	713.7	29.52	749.9	60.4	15.8	64	sw.			4		10	sw.		0.028	0.7		Prof. Jnedt.
Bamberg	28.72	729.4	29.55	750.5	60.1	15.6	70	s.			2		8 k		sw.	0.008	0.2	light rain	Prof. Dr. Hoh.
Berlin	29.32	744.6	29.45	748.1	62.6	17.0	63	s.			3		9			0.004	0.1		Dr. Lensch.
Breslau	29.09	738.8	29.61	752.1	61.7	16.5	50	ssw.			3		3	sw.		0	0		Royal University Obs'y.
Carlsruhe	29.04	737.5	29.48	748.7	59.4	15.2	78	sw.			2		10	sw.		0.039	1.0	raining	Albert Senz.
Cassel	28.68	728.4	29.39	746.5	58.3	14.6	76	s.			5		8	sw.		0.039	1.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.07	738.4	29.43	747.4	58.6	14.8	80	ssw.			2		10			0.004	0.1		Physical Society.
Friedrichshafen	28.17	715.5	29.55	750.5	60.8	16.0	60	w.			4		8	w.		0.520	13.2		Wilhelm, Chief Tel.
Hamburg	29.26	743.1	29.35	745.4	54.3	12.4	95	s.			3		10			0.035	0.9	raining	E. Preiler.
Kiel	29.31	744.4	29.32	744.8	55.8	13.2	90	sse.			2		10			0.362	9.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.05	737.9	29.46	748.2	64.8	18.2	55	ssw.			4		6	ssw.		0	0		H. Leppig, Asst.
Magdeburg	29.22	742.2	29.40	746.8	61.0	16.1	76	ssw.			3		10	sw.		0.024	0.6		Weather Observatory.
Memel	29.55	750.5	29.60	751.7	58.1	14.5	80	sw.			5		10 ks						Issermann.
Munich	27.74	704.7	29.58	751.3	61.3	16.3	57	se.			2		3	w.		0	0		Central Station.
Neufahrwasser	29.53	750.0	29.54	750.4	60.6	15.9	74	sw.			1		5			0.059	1.5		A. Lothes.
Neustadt, Palatinate	28.91	734.4	29.43	747.6	57.2	14.0	88	s.			1		10			0.532	13.5	raining	Dicknether.
Stuttgart	28.55	725.2	29.41	747.1	61.2	16.2	67	sw.			1		10			0.028	0.7		Prof. Dr. Schoder.
Wustrow	29.32	744.8	29.35	745.4	60.1	15.6	76	s.			4		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.42	747.3	29.80	756.8	78.3	25.7		sw.			2.0		1			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.77	756.2	29.82	757.5	82.0	27.8	71	wsw.	30.0	13.4			5		wsw.	0	0	d. clouds	
Deesa	29.32	744.6	29.78	756.4	89.0	31.7	54	w.	2.0	0.9			9	w.	w.	1.00	25.4	drizzling	
Bombay	29.83	757.7	29.87	758.7	80.2	26.8	87	wnw.	14.0	6.3			10		w.	0.04	1.0	overcast	
Poona, Yarrowda	28.01	711.4	29.89	759.1	72.6	22.6	89	nw.	25.0	11.2			9			0.96	24.4	d. clouds	
Trichinopoly	29.56	750.8	29.84	757.9	90.0	32.2	55	calm	0	0			8			1.02	25.9	d. clouds	
Bellary	28.33	719.6	29.78	756.4	86.0	30.0	49	w.	12.0	5.4			9	se.		0	0	gloomy	
Belgaum	27.35	694.8	29.93	760.2	69.3	20.7	85	wsw.	7.0	3.1			8	e.	w.	0.19	4.8	d. clouds	
Lahore	29.06	738.2	29.80	756.8	87.4	30.8	33	n.	6.0	2.7			0			0	0	blue sky	
Roorkee	28.83	732.3	29.71	754.6	89.8	32.1	36	w.	0.3	0.1			0			0	0		
Agra	29.21	741.9	29.76	755.8	95.6	35.3	26	nw.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.75	730.3	29.79	756.6	84.2	29.0	66	calm	2.0	0.9			7		w.	0	0	d. clouds	
Jubbulpore	28.47	723.0	29.80	757.0	86.3	30.2	52	ne.	4.0	1.8			6	n.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Lucknow	29.35	745.5	29.72	754.8	92.1	33.4	36	nw.	1.5	0.7			0			0	0	blue sky	
Allahabad	29.44	747.9	29.75	755.7	86.5	30.3	60	calm	0	0			0			0	0	blue sky	
Patna	29.56	750.9	29.74	755.5	86.6	30.3	61	nw.	1.9	0.8			0			0	0	blue sky	
Hazaribagh	27.79	705.8	29.77	756.2	83.6	28.7	51	calm	4.4	2.0			1			0	0	d. clouds	
Cuttack	29.73	755.2	29.81	757.2	83.0	28.3	83	calm	0	0			8			0.07	1.8	d. clouds	
Calcutta, Alipore	29.78	756.5	29.81	757.1	80.2	26.8	96	w.	2.0	0.9			10			3.09	78.5	overcast	
Dhubri	29.67	753.6	29.79	756.6	80.2	26.8	82	calm	0.6	0.3			3			0	0	d. clouds	
Chittagong	29.76	755.9	29.85	758.2	79.7	26.5	88	sw.	3.5	1.6			9			0	0	d. clouds	
Sibsagar	29.46	748.4	29.80	756.9	82.0	27.8	79	ne.	1.0	0.4			5	sw.	sw.	0.08	2.0	d. clouds	
Jeypore	28.37	720.7	29.79	756.7	89.6	32.0	40	ne.	7.5	3.4			3		n.	0	0	d. clouds	
Zanzibar	29.99	761.7			80.7	27.1	71	w.	3.0	1.3			4	sse.	ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.25	743.0	29.65	753.1	61.2	16.2	66	se.	1.3	0.6			8			0.906	23.0		Prof. Giovanni Olodig.
Milan	29.14	740.2	29.65	753.0	66.2	19.0	61	ese.	4.9	2.2			6	w.		0.130	3.3		Prof. G. V. Schiapparelli
Padua	29.53	750.1	29.64	752.8	64.0	17.8	59	nne.	4.9	2.2			1			0.449	11.4		Prof. Dott. Lorenzoni.
Moncalieri	28.66	728.0	29.55	750.5	62.6	17.0	61	nnw.	1.3	0.6			6	nw.		0.063	1.6		Prof. F. F. Denza.
Genoa	29.44	747.8	29.63	752.5	69.3	20.7	59	se.	6.9	3.1			6	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.77	705.3	29.64	752.8	61.2	16.2	65	wsw.			2		1			0	0		Prof. D. C. Bruno.
Pesaro	29.60	751.9	29.65	753.1	65.8	18.8	77	ne.	9.4	4.2			8			0.551	14.0		Prof. Luigi Guidi.
Florence	29.42	747.2	29.67	753.5	64.9	18.3	89	sw.			2		10			0.354	9.0		Prof. Costantino Pittei
Leghorn	29.52	749.9	29.61	752.0	69.8	21.0	57	sw.	17.4	7.8			2			0	0		Prof. P. Monte.
Rome	29.50	749.3	29.67	753.6	72.0	22.2	52	sse.	6.9	3.1			9			0.638	16.2		Prof. P. Tacchini.
Lecce	29.48	748.8	29.72	755.0	77.9	25.5	43	wsw.	11.2	5.0			6	w.		0	0		Prof. C. de Giorgi.
Cosenza	28.91	734.4	29.78	756.4	74.8	23.8	66	wsw.	1.8	0.8			6	sw.		0.220	5.6		Prof. D. Conti.
Cagliari	29.58	751.3	29.77	756.1	73.8	23.2	38	calm	0	0			8			0	0		Prof. A. Pacinotti.
Palermo	29.52	749.8	29.76	755.9	78.6	25.9	49	wsw.	9.4	4.2			10	wsw.		0	0		Prof. G. Cacciatore.
Syracuse	29.72	755.0	29.77	756.1	77.4	25.2	72	sw.	1.3	0.6			4	sw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.22	742.3	29.73	755.2	71.1	21.7	57	sw.	5.6	2.5			7	wsw.		0.059	1.5		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.20	767.0	30.24	768.0	56.0	13.3	97	e.			2	0	0			0	0	clear	H. Hattori.
Awomori	30.21	767.3	30.25	768.3	52.8	11.6	87	n.	2.1	0.9		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.12	765.0	30.22	767.5	63.5	17.5	86	calm			0	3 cs	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.13	765.3	30.14	765.6	70.9	21.6	82	ne.			4		10 s			0.134	3.4	overcast	G. Miyanomaza.
Kanazawa	30.10	764.6	30.20	767.1	61.8	16.6	78	se.	7.2	3.2		5 ck	1s;ck			0	0	cloudy	S. Endo.
Kioto	30.01	762.2	30.18	766.6	62.1	16.7	78	n.	2.8	1.2		0	3 s			0	0	fair	M. Tojima.
Kochi	30.17	766.3	30.19	766.8	69.9	21.1	80	e.	4.8	2.1		0	3 s			0.01	0.3	clear	K. Kusunose.
Minsaka	30.12	765.1	30.15	765.8	66.9	19.4	94	nne			1		10 n		e.	2.354	59.8	raining	K. Masusaki.
Miyako	30.19	766.7	30.30	769.5	56.0	13.3	93	wsw.	1.8	0.8			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.94	760.5	30.14	765.5	68.2	20.1	75	calm	0	0			10 s		s.	0	0		S. Takehayasu.
Niigata	30.14	765.5	30.18	766.6	62.7	17.1	83	se.	3.3	1.4		0	0			0	0	clear	Satoo & Tomikawa.
Nobiru	30.24	768.2	30.26	768.6	55.9	13.3	96	e.	8.5	3.8		0	1 s			0	0	clear	Yoslino & Midzushina.
Numazu	30.19	766.8	30.23	767.8	63.1	17.3	79	e.			2	0	2 s			0	0	clear	K. Kaneda.
Osaka	30.17	766.2	30.18	766.7	64.6	18.1	76	ne.	5.8	2.6			8 s			0	0	cloudy	H. Omura.
Sakai	30.15	765.8	30.16	766.0	63.2	17.3	81	ene.			2	0	8 ks		sw.	0.141	3.6	cloudy	Yamawchi & Sakamoto.
Shimonoseki	30.00	762.1	30.15	765.8	71.0	21.7	72	calm			0		10s;ks			0.500	12.7	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.18	766.5	30.25	768.4	63.2	17.3	89	ne.	4.4	2.0		0	0			0	0	clear	The Staff.
Wakayama	30.12	765.0	30.17	766.3	65.4	18.6	69	ne.	3.9	1.7		10 ck;cs	0			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	74.3	23.5	66	e.	25.5	11.4		0	7 ks;kn		ese.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.04	763.0	58.1	14.5	86	wnw.	0.9	0.4		1 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.70	754.4	29.90	761.0	77.5	25.3	93	e.	1.6	0.8			10 n		ne.	inap.	inap.	covered	F. Quijano, C. E.
Sub-series.																			
Altata					77	25.0	90	ne.			1	0	6 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.30	744.2	29.30	744.2	57.6	14.2		wsw.			5					0.343	8.7		
Groningen	29.15	740.4	29.21	741.8	56.7	13.7		s.			1					0.102	2.6		
Helder	29.15	740.3	29.15	740.3	56.7	13.7		sw.			6					0.106	2.7		
Hellevoetsluis	29.26	743.1	29.26	743.1	57.9	14.4	71	wsw.			4					0.362	9.2		
Utrecht	29.22	742.1	29.26	743.3	59.2	15.1	75	sw.			4		5			0.055	1.4	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.6			81.5	27.5	74	ne.	0.5	0.2			3			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.23	742.5	29.30	744.1	57.2	14.0	61	nnw.	6.3	2.8			4			0.020	0.5		
Brono	29.48	748.9	29.52	749.9	43.0	6.1	46	nne.			4		3			0	0		
Christiania	29.17	740.9	29.31	744.5	52.2	11.2	83	nne.	11	5			9			0.516	13.1		
Gjæsvær	29.48	748.8	29.50	749.4	33.1	0.6		nnw.			7		10						
Lodingen	29.58	751.2	29.62	752.4	40.8	4.9	55	ne.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores					70.0	21.1	75	ne.	4.3	1.9			1			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.16	766.1	30.25	768.3	75.7	24.3	56	sw.	4.9	2.2			4	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.74	755.3	30.07	763.8	66.0	18.9	84	nw.	13.0	5.8			7			0.004	0.1		The Staff.
Ponta Delgada, Azores	30.36	771.1	30.43	772.9	71.2	21.8	59	ne.	4.3	1.9			4			0	0		
Saint Paul de Loando	29.76	755.8	29.90	760.9	77.4	25.2	84	wnw.			2		3	se.		0	0		
San Salvador, Congo	28.13	714.6	29.97	761.2	78.4	25.8	59	wsw.			2		8						
Serra da Estrella	25.25	641.4	29.99	761.8	46.9	8.3	83	nw.	24.2	10.8			8			0.693	17.61		
RUSSIAN.																			
Akmollinski	28.88	733.6	29.96	760.9	51.8	11.0	37	nw.	16	7		0	0			0	0		Major K. Lasarew.
Archangel	29.37	745.9	29.39	746.4	37.8	3.2	63	e.	2	1			10			0	0	light clouds	Capt. Sselliwerstow
Ashurada	30.21	767.4	30.12	765.0	71.1	21.7	92	wsw.	13	6			9kr			0.413	10.5		
Astrakhan	30.25	768.4	30.18	766.6	66.9	19.4	39	s.	16	7		0	0			0	0		Capt. Wisganow.
Baku	30.18	766.6	30.13	765.4	72.3	22.4	61	n.	9	4		0	0			0	0		
Barnaul	29.15	740.5	29.65	753.0	51.3	10.7	60	sw.	31	14			10			0	0		Meteorological Obs'y
Bielosersk	28.95	735.2	29.41	747.1	42.3	5.7	93	wnw.	18	8			10 s			0.197	5.0	raining	
Dorpat	29.33	744.9	29.57	751.0	54.1	12.3	90	sw.	7	3			10ks;s			0.079	2.0		Observatory.
Ekaterinburg	29.00	736.5	29.98	761.4	39.0	3.9	59	wsw.	13	6		ck	7 ks			0.039	1.0		Meteorological Obs'y.
Elisawetgrad	29.40	746.8	29.84	757.8	72.5	22.5	39	ssw.	9	4		0	2 k			0	0		
Irkutsk	28.35	720.2	29.99	761.7	50.2	10.1	60	se.			1		1			0	0		
Kasalinsk					61.2	16.2	37	n.	4	2		0	0						
Kasan	29.50	749.3	29.76	756.0	59.7	15.4	67	s.	11	5			10k;n			0	0		Observatory.
Kem	29.41	747.1	29.47	748.4	40.3	4.6	56	nw.	4	2		0	7 k			0	0		
Kertch	29.89	759.3	29.92	759.9	73.9	23.3	67	calm	0	0		7 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.11	739.3	29.72	754.8	68.0	20.0	53	s.	13	6		0	4 ks			0	0		Observatory.
Koslov	29.38	746.2	29.87	758.7	64.6	18.1	45	ssw.	22	10		7 cs	0			0	0		
Libau	29.50	749.4	29.53	750.0	57.2	14.0	82	sw.			5		5			0.906	23.0		E. Quaas.
Lugan	29.74	755.3	29.94	760.4	71.6	22.0	39	sse.	13	6			0			0	0		Meteorological Obs'y.
Moscow	29.23	742.5	29.70	754.3	58.1	14.5	73	wnw.	7.8	3.5			10 s			0.130	3.3		Meteorological Obs'y
Nikolaiev	29.77	756.1	29.84	757.9	71.6	22.0	55	s.	20	9		3 ck	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor																			Iwanow.
Pekin, China	29.98	761.6	30.13	765.2	57.6	14.2	61	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.72	754.9	30.06	763.6	68.5	20.3	20	n.	3.4	1.5			10 n					raining	
Petrozavodsk	29.27	743.5	29.47	748.5	40.6	4.8	71	nnw.	16	7		0	8 ks			0.197	5.0		Dr. Bergmann.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.22	742.1	29.70	754.4	60.3	15.7	87	calm	0	0			10 n			0.039	1.0	raining	
Poti	29.87	758.8	29.91	759.6	85.1	29.5	65	w.	4	2		0	2 k			0	0		
St. Petersburg	29.56	750.9	29.59	751.5	46.8	8.2	74	w.	9	4		0	4k;ks			0.748	19.0		Central Physical Obs'y.
Samarkand	27.56	700.1	29.93	760.2	75.6	24.2	36	se.	3.4	1.5		0	0			0	0		
Semipalatinsk	29.28	743.6	29.94	760.4	50.5	10.3	48	w.	4	2			8			0	0		Major Lasarew
Sevastopol	29.61	752.0	29.81	757.2	71.4	21.9	61	n.	11	5			9 n			0.008	0.2		
Staroi Bykhov	29.18	741.1	29.72	754.8	61.3	16.3	75	se.	2	1			10			0	0		
Tashkend Laboratory	28.35	720.2	29.96	761.0	74.8	23.8	32	n.	9	4		0	8 k			0	0	light clouds	Terch, A. M
Tiflis	28.71	729.3	30.08	764.0	74.7	23.7	50	se.	7	3		0	5 k			0	0		Physical Observatory.
Vernoe	27.45	697.2	29.86	758.4	69.8	21.0	39	nw.	2	1		0	3 k			0	0		
Viatka	28.91	734.4	29.54	750.4	43.0	6.1	97	s.	9	4			10			0.374	9.5		
Warsaw	29.22	742.1	29.63	752.6	61.5	16.4	70	s	7	3		0	4 ks			0.035	0.9		Astronomical Obs'y.
Yeniseisk	29.50	749.3	29.79	756.6	43.9	6.6	51	e.	16	7			9			0	0		M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.66	753.3	29.76	755.9	75.9	24.4	56	wsw.	6.3	2.8		0	1			0.075	1.9	almost clear.	Antonio Molins.
Bilbao, Met. Obs'y	29.88	758.9	29.94	760.4	61.7	16.5	86	nw.	2.9	1.3		2	3	nw.		0.217	5.5	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.97	685.1	29.89	759.2	61.2	16.2	49	sw.	3.1	1.4			6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.69	703.3	29.85	758.1	70.0	21.1	48	w.	13.0	5.8		0	6			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.69	754.2	29.83	757.7	80.1	26.7	54	nne.	3.4	1.5		2	4	sw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.21	741.8	29.97	761.1	57.2	14.0	74	e.	4.7	2.1		6 k	6 k	w.	w.	0.461	11.7	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.4	30.00	762.0	59.5	15.3	61	w.	3.8	1.7			5			0.429	10.9	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.00	762 1	30.07	763.7	81.2	27.3	84	ese.	2.2	1.0		4cs;ck	2 k	e;ene.	e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.69	754.2	29.75	755.6	80.0	26.7	84	w.	33.0	14.9			10 n			0.866	22.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.4	30.03	762.9	69.8	21.0	65	w.	8.9	4.0		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.95	760.8	30.04	763.1	81.0	27.2	91	calm	0	0		0	4 k		e.	0.157	4.0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.58	751.3	29.62	752.3	35.2	1.8	82	nw.			2		10			0.114	2.9		
Umea	29.48	748.8	29.53	750.1	37.8	3.2	97	ne.			2		10			0.402	10.2		
Hernosand	29.42	747.3	29.47	748.6	47.1	8.4	92	calm			0		10			0.004	0.1		
Stockholm	29.18	741.1	29.35	745.6	59.0	15.0	75	ssw.			2		10			0.236	6.0		
Wisby	29.35	745.4	29.41	746.9	57.9	14.4	78	sw.			4		5			0.028	0.7		
Sub-series.																			
Upsala	29.25	743.0	29.34	745.2	56.7	13.7	93	sse.	0	0			9		ssw.	0.220	5.6		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.25	717.6	29.67	753 7	54.9	12.7	82	wsw.			2		10			0.114	2.9	raining	The Observatory.
Turkish.																			
Constantinople			29.73	755.1	74.7	23.7	66	sw.	2.2	1.0			9		sw	0	0		The Observatory.
Valona			29.88?	758.9?	77.2	25.1		s.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.6	98.1	36.7		w.			1		2 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.60	675.6			65	18.3	90	calm			0	5 cs		calm		0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.17	766.3	30.25	768.3	47	8.3	63	w.	2	0.9		10 cs	c	w.		0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.13	765.3	33	0.6	88	nw	6	2.7		4 cs	2 s	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.87	758.7	50	10.0	80	se.	1	0.4		0	0			0.05	1.3	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.30	693 4	30.15	765.8	35	1.7	66	ne.	4	1.8		sk.	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.04	737.1	30.21	767.3	64.0	17.8	53	w.	5	2.2		5 k	fg			0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.16	766.1	30.17	766.3	57	13.9	86	ne.	7	3.1		hz.	hz.			inap.	inap.	dense haze.	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.23	767.8	63.0	17.2	90	calm	0	0		8 cs	fg.			0	0	cloudy	D. J. Young.
Baltimore, Maryland	30.16	765.1	30.21	767.3	60	15.6	81	ne.	4	1.8			10s;fg		w.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.16	766.1	30.18	766.6	58.0	14.4	93	ne.	14	6.3			10 s		ne.	0.75	19.0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.60	751.8	29.62	752.3	36.0	2.2	79	n.	13	5.8		0	8 k		?	0.1?	3.?	cloudy	Geo. Chernick.
Bennett, Fort, Dakota	28.42	721.9	30.01	762.2	39.0	3.9	82	n.	4	1.8			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.20	767.1	36	2.2	82	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.21	716.5	30.01	762.2	35.5	1.9	91	w.	2	0.9		3 c	c			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.16	766.1	30.19	766.8	53	11.7	80	n.	15	6.7		hz.	0			0.32	8.1	dense haze	J. T. Eiker.
Boise City, Idaho	27.13	689.1	29.90	759.4	36	2.2		w.	1	0.4		0	0			0	0	clear	J. Kenealy.
Boston, Massachusetts	30.02	762.5	30.17	766.3	48.5	9.2	74	nw.	6	2.7		5 k	3 s;fg	w.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	73.0	22.8	100	calm	0	0		0	3 s			0	0	clear	E. C. Imlay.
Buffalo, New York	29.43	747.5	30.16	766.1	44.2	6.8	88	e.	5	2.2			10 s		ne.	0.02	0.5	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.12	714.2	30.10	764.5	39.2	4.0	50	n.	12	5.4			10 s		nw.	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.71	754.6	30.11	764.8	64.6	18.1	86	sw.	5	2.2		8 c	0	w.		0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.45	748.0	29.65	753.1	60.4	15.8	91	s.	16	7.2			10 s		se.	0.37	9.4	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.13	765.3	30.15	765.8	68.0	20.0	84	w.	3	1.3			10s;hz			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.17	766.3	60.2	15.7	85	ne.	10	4.5		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	28.99	736.3	29.67	753.6	56	13.3	100	se.	52	23.4			10 n		se.	0.32	8.1	light rain	J. J. McLean.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	76.5	24.7	94	ne.	2	0.9		1 cs	0	w.		0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.13	765.3	30.18	766.6	74.0	23.3	97	sw.	1	0.4		8 cs	fg			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.34	745.2	30.18	766.6	63.0	17.2	84	sw.	2	0.9		10 cs	fg.	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.19	766.8	62.0	16.7	87	w.	1	0.4		8 ck	1 s;fg	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.07	611.4	29.93	760.2	48.8	9.3	16	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.33	745.0	30.02	762.5	53.5	11.9	86	e.	5	2.2			10 s		ne.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.13	765.3	30.15	765.8	65	18.3	93	e.	7	3.1			10ks;hz		nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.08	764 0	62.0	16.7	78	se.	3	1.3		2 ck	0	sw.		0	0	clear	L. Dunne.
Cleveland, Ohio	29.38	746.2	30.10	764.5	45.3	7.4	72	se.	7	3.1			10 s		w.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.24	742.7	30.08	764.0	54	12.2	86	ne.	4	1.8			10 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.15	715.0	30.05	763.3	66.0	18.9	90	s.	6	2.7		5 cs	0			0	0	fair	J. McGlone.
Custer, Fort, M. T	26.99	685.5	30.11	764.8	32	0.0	71	n.	2	0.9		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.34	745.2	30.00	762.0	46	7.8	83	ne.	7	3.1		8cs;k	hz.	w;nw		0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.99	761.7	60	15.6	78	calm	0	0			10 s		se.	0.37	9.4	cloudy	J. Williams.
Dayton, Washington T'y	28.10	713.7	29.85	758.2	49	9.4	68	calm	0	0		0	sk.			0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.40	645.1	29.96	761 0	40	4.4	70	calm	0	0			10 s			0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del	30.15	765.8	30.17	766.3	61	16.1	68	n.	20	8.9			hz.			0	0	dense haze	T. S. Townsend.
Denver, Colorado	24.79	629.7	29.90	759.4	47.0	8.3	51	s.	10	4.5		hz.	0			0	0	dense haze	F. M. Neal.
Des Moines, Iowa	29.09	738 9	29.98	761.5	44	6.7	93	ne.	5	2.2			fg.			0	0	dense fog	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.09	764.3	48.8	9.3	77	ne.	5	2.2			10 s		s.	0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.38	695.4	29.93	760.2	59	15.0	84	sw.	4	1.8		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.34	745.2	30.04	763.0	43.3	6.3	80	n.	4	1.8			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.29	744.0	30.03	762.7	39	3.9	73	s.	18	8.0			10 s		w.	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.09	764.3	30.16	766.1	45.0	7.2	72	calm	0	0		5 ck	4 s	w.	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.28	692 9	29.97	761.2	63	17.2	73	s.	6	2.7			10 s		sw.	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.36	669.5	30.01	762.2	60.0	15.6	100	se.	4	1.8			10 s		se.	0.03	0.8	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.42	747.3	30.13	765.3	48	8.9	71	s.	5	2.2		8 cs	fg.			0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.46	748.3	30.12	765.0	29.5	— 1.4	80	nw.	2	0.9			fg.			0	0	dense fog	George Heathcote.
Galveston, Texas	30.06	763.5	30.10	764.5	78	25.6	88	s.	2	0.9		2 cs	4 ks		s.	0	0	fair	E. O'C. Machnerney.
Grand Haven, Michigan	29.41	747.0	30.07	763.8	45.0	7.2	88	e.	5	2.2			10 s			0.13	3.3	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.27	641.8	29.87	758.7	62.2	16.7	66	sw.	2	0.9			10 s			0.02	0.5	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	72.0	22.2	90	w.	8	3.6		9 k	0	w.		0	0	cloudy	R. M. Crawford
Helena, Montana	25.86	656.8	30.03	762.7	48	8.9	52	ne.	4	1.8		0	sk.			0	0	clear	T. H. Jones.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Huron, Dakota	28.61	726.7	29.99	761.7	37	2.8	88	e.	3	1.3			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	30.00	762.0	57.3	14.1	83	calm	0	0		4 c	fg.	w.		0	0	fair	C. F. R. Wappenhans.
Indianola, Texas	30.07	763.8	30.10	764.5	76.1	24.5	95	s.	4	1.8		0	2 ks			0	0	clear.	I. A. Reed.
Jacksonville Florida	30.15	765.8	30.19	766.8	72.0	22.2	97	e.	5	2.2		4 cs	fg.			0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.31	744.5	29.96	761.0	49.0	9.4	93	e.	5	2.2		4 c	o	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	80	26.7	88	ne.	14	6.3			10 ks		ne.	0.03	0.8	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	69.5	20.8	90	sw.	5	2.2			10 s			0	0	cloudy	H. Mc P. Baldwin.
Knoxville, Tennessee	29.18	741.2	30.20	767.1	60	15.6	95	calm	0	0			10s;fg		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.09	764.3	43	6.1	68	n.	3	1.3			10 s			0.01	0.3	cloudy	S. C. Emery.
Leavenworth, Kansas	29.05	737.9	29.93	760.2	63	17.2	93	se.	1	0.4		6 cs	fg.	w.		0	0	fair	T. S. Outram.
Lewiston, Idaho					46.0	7.8	76	calm	0	0			sk.			0	0	dense smoke.	O. E. Butler.
Little Rock, Arkansas	29.77	756.1	30.08	764.0	65	18.3	93	calm	0	0		7 cs	o			inap.	inap.	fair	W. U. Simons.
Los Angeles, California	29.54	750.3	29.93	760.2	56.5	13.6	96	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.06	763.5	64	17.8	84	s.	6	2.7		10 cs	sk.	w.		0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.47	748.5	30.15	765.8	62	16.7	84	calm	0	0			10s;fg			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.48	748.8	30.13	765.3	38.5	3.6	67	s.	4	1.8		0	0			0.01	0.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.18	766.6	30.19	766.8	73.0	22.8	84	w.	9	4.0		5 ck	3 s	w.	w.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.69	652.5	30.09	764.3	37	2.8	42	s.	3	1.3		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.38	746.2	30.10	764.5	31.0	— 0.6	72	w.	3	1.3		0	9 k		w.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.12	765.0	68	20.0	78	se	8	3.6			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.33	745.0	30.07	763.8	44	6.7	93	n.	11	4.9			10 s		n.	0.06	1.5	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.14	765.5	30.18	766.6	69	20.6	91	n.	1	0.4		2 c	hz.			0	0	light haze	H. U. Jones.
Montgomery, Alabama	29.96	761.0	30.19	766.8	62	16.7	84	calm	0	0		4 cs	fg.			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.00	736.6	29.99	761.7	38	3.3	89	s.	4	1.8			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.75	603.2	29.90	759.4	19.0	— 7.2	100	nw.	34	15.2			fg.		nw.	0.19	4.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.56	750.8	30.13	765.3	63.0	17.2	87	e.	1	0.4		10 cs	o	w.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	44.5	6.9	76	n.	6	2.7		0	0			0.06	1.5	clear	J. H. Sherman.
New London, Connecticut	30.18	766.6	30.23	767.8	50	10.0	72	n.	2	0.9			10 s			0.13	3.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.15	765.8	75.0	23.9	94	se.	2	0.9			10s;fg			0	0	cloudy	M. Herman.
New York, New York	30.05	763.3	30.22	767.6	51	10.6	66	ne	5	2.2		0	fg.			0.21	5.3	clear	H. J. Penrod.
Norfolk, Virginia	30.11	764.8	30.14	765.5	68.1	20.1	90	calm	0	0			10s;fg			0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.00	685.8	29.98	758.9	37.6	3.1	96	w.	3	1.3		0	6 s			0.05	1.3	fair	E. F. Brady.
Olympia, Washington T'y.	29.62	752.3	29.66	753.4	54.0	12.2	93	calm	0	0			fg.			0.12	3.0	dense fog	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.94	760.5	47.1	8.4	89	e.	1	0.4		0	0			0	0	clear	A. Pollak
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.90	759.4	30.22	767.6	42.5	5.8	67	se.	6	2.7		0	5 k		w.	0.03	0.8	fair	J. G. Linsley
Palestine, Texas	29.59	751.6	30.14	765.5	69.0	20.6	93	s.	10	4.5			fg.			0	0	dense fog	L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	71.3	21.8	88	e.	6	2.7		2 cs	2 k			0	0	fair	M. McGauran.
Philadelphia, Pa	30.12	765.0	30.22	767.6	54	12.2	93	ne.	7	3.1		8 ck	1 ks	w.	ne.	0.25	6.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.00	457.2	29.98	761.5	26	— 3.3	84	n.	28	12.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.32	744.7	30.11	764.8	52.0	11.1	93	ne.	3	1.3		0	7 s		w.	0.78	19.8	fair	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.43	747.5	30.10	764.5	43.0	6.1	83	se.	2	0.9			10 s			0.12	3.0	cloudy	M. H. Perry
Portland, Maine	30.12	765.0	30.17	766.3	53	11.7	61	nw.	3	1.3		4 k	3 s	nw.	nw.	0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.56	750.8	29.63	752.6	55.0	12.8	93	s	5	2.2			sk.			0.14	3.6	dense smoke	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.93	760.2	50	10.0	56	s	1	0.4		0	o			0	0	clear	N. D. Lane.
Provincetown, Mass	30.13	765.3	30.16	766.1	55	12.8	86	calm	0	0		0	8ks;sk			0.12	3.0	clear	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.47	748.5	29.82	757.4	66	18.9	58	s.	10	4.5		2 k	o	s.		0	0	clear	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.11	739.4	29.66	753.4	53	11.7	91	ne.	2	0.9			10 s			0	0	threatening.	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	61.5	16.4	84	se.	8	3.6		0	7 s			0	0	fair	J. A. Barwick
St. Louis, Missouri	29.40	746.7	30.02	762.5	66.5	19.2	84	sw.	16	7.2		10 cs	sk.	sw.		0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.33	745.0	29.36	745.7	39	3.9	89	ne.	9	4.0			10 s			0.03	0.8	cloudy	A. P. Leavitt.
St. Paul, Minnesota	29.20	741.7	30.05	763.3	36.0	2.2	83	s.	5	2.2		8 cs	2 s	nw.		0.01	0.3	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.10	739.1	29.97	761.2	23	— 5.0	88	sw.	4	1.8			10 ks		nw.	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.05	651.5	29.90	759.4	59	15.0	37	se.	3	1.3		0	o			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.84	757.9	29.91	759.7	63.5	17.5	87	ne.	3	1.3		0	fg.			0	0	clear	F. R. Day.
Sanford, Florida	30.10	764.5	30.15	765.8	75	23.9	97	ne.	1	0.4		3 c	fg.			0.28	7.1	clear	J. B. Marbury.
Sandusky, Ohio	29.43	747.5	30.10	764.5	49	9.4	86	s.	5	2.2		hz.	5 s			0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.19	766.8	30.22	767.6	52.0	11.1	66	ne.	18	8.0		1 k	o	ne.		inap.	inap.	clear	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	60	15.6	87	sw.	12	5.4			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.11	764.8	30.20	767.1	72	22.2	94	se.	1	0.4		7 c	fg.			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	30.02	762.5	31	— 0.6	81	w.	4	1.8			sk.			0	0	dense smoke	S. W. Morrison.
Shreveport, Louisiana	29.84	757.9	30.08	764.0	66.5	19.2	86	s.	2	0.9			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.83	732.3	30.05	763.3	65	18.3	84	sw.	3	1.3		0	9 ks		sw.	0.01	0.3	cloudy	W. M. Mattingly
Sitka, Alaska	29.63	752.6	29.69	754.1	56.1	13.4	86	calm	0	0			10 s			0.14	3.6	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.60	751.8	30.07	763.8	67.5	19.7	78	e.	3	1.3			10 s		w.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.16	766.1	30.20	767.1	72.5	22.5	89	sw.	3	1.3		4 c	o			0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.87	707.9	29.91	759.7	46	7.8	71	n.	4	1.8			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.32	744.7	29.99	761.7	54	12.2	83	se.	5	2.2		4 c	hz.	w.		0	0	fair	T. B. Jennings.
Starkville, Miss																			C. Dill.
Stockton, Fort, Texas	27.07	687.6	30.03	762.7	61	16.1	93	sw.	3	1.3		8 cs	o			0.01	0.3	cloudy	Louis Dorman.
Thomas, Camp, Arizona					67	19.4	57	calm			0	0	5 s			0	0	fair	R. O. Lord.
Toledo, Ohio	29.39	746.5	30.07	763.8	48.2	9.0	86	e.	4	1.8			10s;sk		w.	0	0	dense smoke	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	28.57	725.7	28.59	726.2	43	6.1	93	se.	20	8.9			10 n		se.	1.88	47.8	light rain	Samuel Applegate.
Verde, Fort, Arizona					55	12.8	47	nw.			1	o	o			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.93	760.2	30.18	766.6	70.5	21.4	73	se.	4	1.8			10 s		sw.	0.01	0.3	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.09	764.3	30.20	767.1	57.1	13.9	81	n.	3	1.3		3 cs	hz.	nw.		0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.03	661.2	29.85	758.2	45.5	7.5	52	nw.	8	3.6		o	o			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.14	765.5	30.19	766.8	71.0	21.7	84	sw.	1	0.4		5 c	hz.			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.67	728.2	29.96	761.0	36.8	2.7	91	e.	9	4.0			hz.			0	0	dense haze.	E. H. Thompson.
Yuma, Arizona	29.66	753.4	29.80	756.9	69.7	20.9	85	calm	0	0		0	o			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					76	24.4		nw.			2		8 n		n.	0.10	2.5	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.07	560.6			53.2	11.8	71	calm	0	0			10 s		nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	77.3	25.2	88	calm	0	0			2 s		ene.	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	82	se.			2	5 ck	5 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.42	747.3	29.98	761.5	79	26.1	71	calm			0	6 ck	3 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76	24.4	90	ne.			1	5 ck	2 ks		se.	0.20	5.1		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Tres Factory, B. A.	29.83	757.7	29.90	759.4	18.5	— 7.5	100	n.	9	4.0			10 n		n.	0.01	0.3	snowing	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 40° 37′, E. 22° 57′	29.76	755.9	75	23.9	68	ssw.			1		1	ese.						blue sky.
H. M. S. Coquette, N. 36° 48′, E. 10° 20′	29.83	757.7	74	23.3		ene.			1		7	calm						showery.
H. M. Dockyard, Bermuda, Atlantic	30.14	765.5	76	24.4	84	ese.			3		8	ese.						d. clouds.
H. P. M. S. Douro, St. Thomas, W.I.	29.97	761.3	78.8	26.0	88	ssw.			2		10					2	sw.	overcast.
H. M. S. Himalaya, N. 37° 26′, E. 4° 01′			74	23.3	63	ese.			1		1	nne.				1	nne.	blue sky.
H. M. S. Iris, off Port Said, Egypt	29.84	757.9	83	28.3	79	wsw.			2		1							blue sky.
H. M. S. Tenedos, Salt Water Ponds, Newfoundland	29.98	761.5	48	8.9	78	calm			0		10							raining.
H. M. S. Tyne, N. 6° 25′, W. 19° 10′			80	26.7	78	sse.			2		9					1	sse.	misty.
U. S. Navy Yard, Portsmouth, N.H.*	30.12	765.0	48	8.9	70	ne	2	0.9			5		w.	0	0			fair.
U. S. S. Alliance, Eastport, Me.	30.17	766.3	48	8.9	78	nnw.			1		5?			0	0			clear?
U. S. S. Galena, N. 36° 58′, W. 75° 56′			74	23.3	95	n.			2		5		n.			mod.	n.	fair.
U. S. S. Jamestown, N. 21° 45′, W. 36° 12′	30.12	765.0	79	26.1	82	nne.			3		2					sm'h	ne	fair.
U. S. S. Kearsarge, N. 38° 18′, W. 9° 21′	30.12	765.0	65	18.3	94	nw.			4		5		nw.			mod.	nw.	fair.
U. S. S. Lancaster, Cadiz, Spain	29.99	761.7	66	18.9	94	nw.			3		0					sm'h		clear
U. S. S. Portsmouth, Newport, R.I.	30.20	767.1	51	10.6	100	nnw.			3		10		nw.					hazy.
U. S. S. Powhatan, Sydney, C.B.	30.05	763.3	52	11.1	93	n.			0–1		10							overcast.
U. S. S. Quinnebaug, Leghorn, Italy	29.79?	756 7?	70	21.1	85	sw.			4–5		5		sw.			sm'h		fair
U. S. S. Saratoga, Bristol, R.I.	30.15	765.8	58	14.4	82	nnw.			2–3		2?		nnw.	h'vy	h'vy	sm'h		overcast?
U. S. S. Swatara, Halifax, N.S.	30.10	764.5	50	10.0	86	nw.			1		0			0	0	r'gh		clear.
U. S. S. Vandalia, Boston, Mass.			51	10.6	79	nw.			1		5							fair.
U. S. S. Yantic, N. 40° 25′, W. 73° 35′	30.26	768.6	55	12.8	74	n.			4		8					sm'h		cloudy.
S. S. British Crown, N. 51° 12′, W. 14° 40′ †	29.75	755.6	59	15.0		nnw.			6		8		nnw.	2 h'r	2 h'r	high	nw.	squally.
S. S. British Prince, N. 42° 20′ W. 64° 51′			54	12.2		n.			3		2		nw.	2 h'r	2 h'r			clear.
S. S. Lord Clive, N. 50° 52′, W. 16° 21′						nw.			7		9		nw.	0	0	high	nw.	cloudy.
S. S. Ohio, Philadelphia, Pa.	30.22	767.6	58	14.4	76	ne.			2		9		w.	14 h'r	14 h'r			overcast.
S. S. Circassian, N. 55° 55′ W. 17° 49′	29.90	759.4	54	12.2	93	n.			5		8		n.			4	w.	showery.
S. S. Grecian, N. 49° 12′ W. 64° 37′	30.04	763.0	39	3.9	82	wnw.			4		0			1 h'r	1 h'r			clear.
S. S. Nova Scotian, N. 50° 39′, W. 34° 59′	30.34	770.6	57	13.9		e.			3		2		s.			mod.	wnw.	fair.
S. S. Prussian, N. 54° 57′, W. 15° 36′	29.89	759.2	58	14.4		nne.			5		8		nne.	0	0	cross	wnw.	cloudy.
S. S. Scandinavian, N. 44° 00′, W. 56° 25′	30.08	764.0	59	15.0		ssw.			3		10		wnw.	1½ h'r	1½ h'r	mod.	s.	misty.
S. S. Jason, N. 49° 19′ W. 30° 42′†			57.2	14.0		se.			4–5		10 n					4	se.	raining.
S. S. Alvo, N. 12° 18′, W. 82° 13′*	29.84	757.9	77	25.0		n.			4		9		n.	5 h'r	5 h'r	short	nne.	overcast.
S. S. Avilla, Kingston, Jamaica, W.I.*†	30.05	763.3	80	26.7		calm			0		0			0	0	sm'h		
S. S. Assyria, N. 40° 02′. W. 49° 02′	30.12	765.0	68	20.0	?	w.			3		6		w.	0	0	sm'h		fine.
S. S. Devonia, N. 51° 49′. W. 30° 05′ *†	30.39	771.9	52	11.1		nnw.			2		8		n.			long	nw.	fine.
S. S. Dorian, Denia, Spain	29.78	756 4				var.					4			0	0	sm'h		fine.
S. S. Furnessia, N. 50° 57′, W. 19° 56′†	30.17?	766.3?	59	15.0	76	nnw.			6		7		nnw.	5 h'r	5 h'r	light	nw.	fair.
S. S. Gallia, N. 43° 37′, W. 52° 18′	30.05	763.3	64	17.8	83	se.			4		2		calm	0	0	sm'h		fine.
S. S. Pavonia, off Point Lynas, Wales*	29.32	744.7	58	14.4	88	ene.			6		10		ene.	0	0	slj't	nw.	cloudy.
S. S. Canada, N. 49° 48′, W. 9° 44′			53.6	12		nw.			5		s		nw.	sprin	kling.	hv'y	nw.	sprinkling.
S. S. France, N. 41° 42′, W. 55° 40′ †	30.09	764.3	71.6	22		s.			3		0			0	0	sm'h	se.	
S. S. Wisconsin, N. 46° 40′, W. 48° 26′			56	13.3		s.			2		0			0	0	sm'h		clear.
S. S. Wyoming, N. 46° 19′ W. 49° 09′	30.23	767.8	52	11.1		sse.			4		0			0	0	mod.	sw.	clear.
S. S. Bohemia, N. 54° 00′, E. 8° 18′						w.			5		8		w.	1 h'r	1 h'r	sm'h	w.	cloudy.
S. S. Frisia, N. 41° 27′, W. 63° 42′	30.14	765 5				ne.			2		9		se.	0	0	short	se.	cloudy.
S. S. Gellert, Hamburg, Germany	29.37	746.0	60	15.6	71	s.			4		9		sw.	3 h'r	3 h'r			covered.
S. S. Rugia, New York, N.Y.	30.22	767.6																
S. S. Silesia, N. 49° 50′, W. 21° 55′			57.5	14.2		nw.			6		3		nw.	0	0	h'vy	nw.	stormy.
S. S. Westphalia, N. 49° 57′, W. 9° 15′	29.48	748.8	55	12.8	87	nw.			6		7		nw.	6 h'r	6 h'r	r'gh	nw.	squally.
S. S. Rhaetia, N. 49° 35′, W. 29° 59′*	30.34	770.6	57	13.9		ne.			2		9			0	0	sm'h	nw.	clear.
S. S. City of Paris, N. 51° 08′ W. 13° 40′*	29.77	756.1				nw.			8		4		nw.	4 h'r	4 h'r	h'vy	nw.	rain squalls
S. S. Hevelius, N. 51° 13′, E. 4° 24′ *†	29.25	742.9	60	15.6		nw.			8		6?		nw.	6 h'r	6 h'r			clear ?
S. S. Sirius, N. 5° 06′. W. 28° 21′	29.99	761.7				s.			1		4		s.	1 h'r	1 h'r	mod	s.	fair.
S. S. Rio Grande, N. 31° 43′, W. 79° 49′†	30.25	768.3	81	27.2		wnw.			1		3		nw.	0	0	sm'h		clear.
S. S. Chalmette, Algiers, La.†	30.20	767.1	80	26.7		calm			0		0			0	0			foggy.
S. S. New York, N. 32° 13′ W. 79° 30′*†	30.24	768.1	80	26.7		calm			0		3		sw.	0	0	sm'h		clear.
S. S. Alleghany, N. 38° 30′, W. 75° 00′ †	30.23	767.8	66	18.9		ne.			3		0			0	0	light	e.	hazy.
S. S. Archimede, N. 34° 58′. W. 14° 55′†	30.25	768.3	74	23.3		nnw.			4		3		nnw.	0	0	h'vy	nnw.	clear.
S. S. City of Merida, N. 18° 38′, W. 92° 45′ *†	29.98	761.5	84	28.9		ene.			2		5?		ne.	2 h'r	2 h'r	mod.	ene.	cloudy?
S. S. City of Washington, Havana, Cuba, W.I.†	30.05	763.3	83	28.3		ne.			3		2		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 25° 47′, W. 76° 41′*	30.12	765 0	83	28.3		e.			3		3		nw.	1 h'r	1 h'r	gentle	ene.	fine.
S. S. Canada, N. 47° 57′, W. 33° 18′			61	16.1		sse.			5		10		se.	0	0	mod.	var.	overcast.
S. S. Denmark, N. 40° 52′, W. 65° 00′ †	30.14	765.5	64	17.8		var.			3		7		e.	0	0	sli't	wsw.	cloudy.
S. S. Egypt, N. 50° 00′, W. 27° 34′			56	13.3		n.			4		2		n.	0	0	mod.	nne.	clear.
S. S. Helvetia, N. 41° 15′, W. 63° 45′	30.06	763.5	65	18.3	94	wsw.			3		10		wsw.	3 h'r	3 h'r		wsw.	misty.
S. S. America, N. 49° 50′, W. 9° —′*	29.44	747.8	61.0	16.1	82	wnw.			8		4		wnw.	0	0	light	wnw.	fair.
S. S. Elbe, N. 45° 08′, W. 52° 13′			58.1	14.5	94	ssw.			4		2?		ssw.	0	0	sm'h	sw.	cloudy?
S. S. Habsburg, N. 49° 44′, W. 7° 19′	29.45	748 0				wnw.			7		6		wnw.	rain	rain	cross	wnw.	squally.
S. S. Hohenstaufen, N. 12° 56′, W. 26° 22′	30.07	763.8	82.4	28.0	92	e.			3		3		e.	0	0	mod.	e.	clear.
S. S. Oder, N. 48° 26′, W. 26° 37′	30.41	772.4	57.2	14.0		n.			2		3			0	0	long	nw.	clear.
S. S. Rhein, N. 40° 30′ W. 73° 30′	30.19	766.8	59.0	15.0		ne.			2		2		se.	3 h'r	3 h'r	mod		clear.
S. S. Salier, N. 49° 45′, W. 22° 38′*	30.23	767.8	59.9	15.5	63	nw.			6		9		nw.	0	0	cross	nw.	cloudy.
S. S. Strassburg, N. 46° 42′, W. 46° 43′	30.21	767.3	66.0?	18.9?	53	sse.			1–2		3					3	wnw.	clear.
S. S. City of Augusta, New York, N.Y.†	30.17	766.3				ssw.			2		8		s.	0	0			smoky.
S. S. Muriel, St. Thomas, W.I.			84	28.9		ene.			2		0			0	0	sm'h		clear.
S. S. Orinoco, N. 34° 30′, W. 66° 53′*†	30.13	765 3	78	25.6		e.			3		8		e.	1 h'r	1 h'r	high	e.	gloomy.
S. S. Belgenland, N. 47° 47′, W. 41° 00′ †	30.34	770.6	63	17.2	89	se.			4		10		se.	0	0	long	n.	overcast.
S. S. Pennland, New York, N.Y.			50	10.0	86	n.			8		1		n.	3 h'r	3 h'r			clear.
S. S. Vaderland, Antwerp, Belgium			58	14.4		wsw.			6		7		w.	1 h'r	1 h'r			showery.
S. S. Waesland, Antwerp, Belgium			62	16.7		wsw.			4		7		wsw.	1½ hr	1½ hr			fair.
S. S. P. Caland, N. 43° 18′, W. 58° 15′	30.13	765.3	62.4	16.9	86	wnw.			2		10					3	sw.	cloudy.
S. S. W. A. Scholten, N. 49° 54′, W. 27° 30′	30.37	771.4	58.1	14.5	73	nw.			4		5		n.	0	0	4	wnw.	fair
S. S. Caracas, N. 31° 20′, W. 70° 57′ *†	30.21	767.3	80	26.7	82	nnw.			4				n.	0	0	mod.	ne.	fine.
S. S. Valencia, N. 16° 14′, W. 68° 25′†	30.02	762.5	84.5	29.2	81	e.			4		4		ene.	3 h'r	3 h'r	mod	var.	fair.
S. S. State of Nevada, Larne, Ireland			58	14.4		ne.			5		1		e.	0	0			clear.
S. S. State of Nebraska, N. 47° 00′, W. 48° 14′*†	30.16	766.1	51	10.6		s.			2		0			0	0	sm'h		clear.
S. S. Thingvalla, N. 51° 35′, W. 43° 17′			59.0	15.0		sse.			3		2		sse.	0	0	mod.	s.	clear.
S. S. Romano, N. 42° 37′, W. 57° 21′			72	22.2		ssw.			4		2		w	0	0	mod.	ssw.	clear.
S. S. Oregon, Quebec, Canada	30.11	764.8	44	6.7		ssw.			1		4		ssw.					
S. S. Lake Huron, N. 54° 12′, W. 5° 05′	29.34	745.2	57	13.9		ne.			6		8		ne.	4 h'r	4 h'r	mod.	ne.	cloudy.
S. S. Lake Manitoba, Gulf of St. Lawrence	30.02	762.5	50	10.0		ssw.			4		7		sw.	0	0	sm'h		fair.
S. S. Daniel Steinmann, N. 49° 39′ W. 7° 30′*†	29.54	750.3				w.			9		10			2 h'r	2 h'r	h'vy	w.	stormy.
S. S. Saxon, Philadelphia, Pa.	30.25	768.3				ne			1		10			0	0			threatening.
S. S. Britannic, N. 50° 50′, W. 18° 00′ †	30.00	762.0	54	12.2		nw.			6		6		nw.	0	0	high	nw.	d. clouds.
S. S. Celtic, N. 41° 14′, W. 66° 26′ †.	30.12	765.0	60	15.6	82	nw.			2		10		w.	0	0	sm'h		overcast.
S. S. Germanic, N. 51° 20′, W. 15° 48′			58	14.4		nw.			6		6		nnw.	2 h'r	2 h'r	r'gh	wnw.	squally.
S. S. Republic, N. 41° 59′, W. 61° 48′ *†	30.12	765.0	67	19.4		w			2		8		nw.	0	0	mod.	var.	misty.
S. S. Assyrian Monarch, N. 49° 32′, W. 6° 52′	29.48	748.8				nw.			9		8		nw.	6 h'r	6 h'r	h'vy	w.	cloudy
Bk. Arda, N. 42° 55′, W. 17° 20′†	30.31	769.9				nw.			2		2?		nw.	2 h'r	2 h'r	mod.	nw.	cloudy?
Bg. Alpheus Marshall, N. 19° 54′, W. 26° 12′*†	30.05	763.3	79	26.1	95	e.			3		7		ese.	0	0	sm'h		fair.
Bk. Ariadne, N. 44° 17′, W. 52° 22′			58	14.4	94	se.			4		0			0	0	mod	var.	hazy.
Bg. Abbie Clifford, N. 42° 15′, W. 70° 08′ †	30.08	764.0	57	13.9		e.			1		3?		wnw.	¼ h'r	¼ h'r	small	e.	cloudy.?
Schr. Arthur Burton, Lincolnville, Maine†	30.09	764.3				calm			0		2		calm	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Caves Cove, Mass†	30.17	766.3	62	16.7		calm			0									cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
S. S. Antonio Lopez, Santander, Spain	29.96	761.0	60.5	15.8	76	w.			6		6			13 h'r	13 h'r	long	nw.	squally.
Bk. Adelaide, N. 7° 44', W. 31° 46'*†	30.03	762.7				sw.			4		8		ssw.	8 h'r	8 h'r	mod.	sse.	light rain.
Bg. Belle of the Bay, N. 28° 56', W. 92° 00' †	30.16	766.1				s.			2		2		s.	0	0	sm'h	se.	clear.
S. S. Cannonbury, N. 40° 18', W. 70° 00' *†	30.10	764.5				nne.			1		7		w.	0	0	sm'h		fair.
Bk. Ceylon, N. 26° 35', W. 39° 13'†	30.15	765.8	82	27.8	75	e.			4		3		ese.	0	0	mod.	ese.	clear
Schr. C. R. Flint, N. 19° 44', W. 55° 38'†	30.06	763.5	83	28.3		se.			3		5		se.	1 h'r	1 h'r	mod.	se.	fair.
Bk. Don Justo, N. 45° 34', W. 57° 01'						nnw.			1		9			1 h'r	1 h'r	sm'h	wsw.	clearing.
Bk. Childwall, N. 7° 34', W. 22° 48'			81	27.2	96	ssw.			3		9		sw.	0	0	sm'h		overcast.
Bkt. David A. Preston, N. 42° 57', W. 69° 47'						e.			2					0	0	sm'h		smoky.
Bk. Diamant, N. 41° 00', W. 46° 05'	30.12	765.0	70.3	21.3	95	e.			4	6 c		se.		5 h'r	5 h'r	3	e.	fair.
S. Dynomine, N. 35° 34', W. 17° 34'	30.29	769.4	71	21.7	71	nne.			3		4			0	0	mod.	n.	d. clouds.
S. David Stewart, N. 30° 42', W. 69° 20'†	30.01?	762.2?	82	27.8		wsw.			1		5		s.	0	0	mod.	ssw.	
S. E. J. Spicer, Flushing, Holland	29.24	742.7	59	15.0	88	sw.			7		10		wsw.	8 h'r	8 h'r			cloudy.
Schr. Edith R. Seward, N. 36° 20', W. 75° 30'†	30.25	768.3	72	22.2		wsw.			2		7		wnw.	0	0	sm'h	sw.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.12	765.0	84	28.9		calm			0		3		s.	0	0			fair.
U. S. Fish Com. S. S Fish Hawk, Woods Holl, Mass†	30.15	765.8	56	13.3		nnw.			1		10		calm	0.26	6.6	sm'h		cloudy.
S. Gatherer, N. 30° 46', W. 37° 10'*	30.22	767.6	80	26.7	82	ese.			2		5		nne.	0	0	sm'h	ne.	fair.
Bg. George, N. 18° 00', W. 67° 10' *†	30.00	762.0	81	27.2		ne.			1		0			0	0	mod.	ese.	clear.
Bk. Galeon, N. 24° 31', W. 27° 04' †	30.15	765.8	76	24.4		e.			3		2		e.	rain	rain		var.	blue sky.
Bk. Grey Eagle, N. 7° 04', W. 29° 45'									2		2		sw.	4 h'r	4 h'r	sm'h		fair.
S. Hedwig, N 22° 50' W. 29° 23'	30.14	765.5	81.7	27.6	81	ese.			2		2		var.	0	0	2	ne.	hazy.
Bk. Johanne, N. 45° 12', W. 57° 13'*†	30.02	762.5	60	15.6		nw.			2		8		nw.	5 h'r	5 h'r	mod.	w.	foggy.
Schr. Jennie N. Huddell, N. 33° 50', W. 77° 10'†	30 22	767.6	81	27.2	87	wsw.			2		2		nne.	0	0	long	e.	fair.
Bk. John H. Pearson, N. 36° 59', W. 1° 30'						ssw.			4				ssw.			sm'h	ne.	clear.
Schr. Jas Slater, N. 18° 49', W. 57° 33'†	30.06	763.5				ene.			5		2		e.	½ h'r	½ h'r	mod.	ne	
Bg. Josefa, N. 46° 15', W. 46° 00' †	30.22	767.6				e.			1		1			0	0	long	w.	fair.
Bkt. Kryolith, N. 45° 34', W. 56° 24'*†	30.04	763.0				wsw.			3							mod	w.	foggy.
Bk. Lady Hincks, N. 22° 10', W. 47° 45' *†	30.10	764.5							2–4					rain	rain			
Bg. L. & W. Armstrong, N. 30° 02', W. 69° 26' *†	30.12	765.0				calm			0		1		n.	0	0	sm'h	ne.	fine.
S. S. Madrid, Taganrog, Russia†	29.94	760.5	64	17.8	83	calm			0		0			0	0			clear.
Bk. Matilda C. Smith, N. 39° 15' W. 63° 00' *†	30.20?	767.1?				wsw.			4		4		w.	0	0	mod.	w.	fine.
Bk. Orpheus, N. 39° 19', W. 01° 57'	30.14	765.5	88	31.1		sw.			2	6 cs	0	sw.		5 h'r	5 h'r			fair.
Schr. Rollin Sanford, near Pensacola, Florida†	30.17	766.3				ne.			2		2		e.	0	0			clear.
Bg. Rising Sun, N. 37° 25', W. 68° 45'†	30.12	765.0	75	23.9		sw.			5		3		w.	0	0	mod.	sw.	clear.
Bk. Rosalie, N. 36° 47', W. 17° 22'*†	30.32	770.1				nnw.			4		3		nw.	0	0	mod.	nnw	clear.
Schr. S. B. Hubbard, N. 33° 42', W. 76° 40' †	30.26	768.6	72	22.2		n.								0	0			
Bk. Saga, N. 55° 18', E. 15° 04'			59	15.0		ssw.			6		8		var.	1 h'r	1 h'r	cross	sw.	cloudy.
S. Salisbury, N. 40° 04', W. 56° 08'	30.09	764.3	71.4	21.9	83	s			0–1		4		s.	0	0	light	nw.	fair.
Bgt. Sunlight, N. 29° 36', W. 71° 38' *†	30.18	766.6				calm			0		2		ne.	0	0	mod.	ne.	clear.
Bk. Samuel B. Hale, N. 35° 36', W. 54° 22'*†	30.20	767 1				e			3		5		se	0	0	short	se.	fair.
Bk. Sunbeam, N. 39° 31', W. 62° 08'†	30.19	766.8	76	24.4	90	wsw.			6		3		wsw.	0	0	mod.	wsw.	fair.
Bk. Scud, N. 29° 43', W. 60° 02' *†	30.18	766.6	84	28.9		e.			5		4		e.	0	0	mod.	se.	fine.
Bk. St. Lawrence, N. 20° 45', W. 56° 09' *†	30.05	763.3				e			1				e.	0	0	light	s.	clear.
S. S. Tower Hill, N. 47° 29', W. 38° 39'*†	30.16?	766.1?				nnw.			4		2		n.			sm'h		fair.
Schr. Viola Reppard, Brunswick, Ga†	30.14	765.5	80	26.7		nne.			1		2		n.	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.03	762.7	76.2	24.6	91	calm			0		4	ese.						d. clouds.
H. M. S. Opal, S 8° 10', W. 13° 44'	30.08	764.0	75	23.9	86	ese.			2		5	ese.				6	ese.	d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	30.15	765.8	54	12.2	93	calm			0		7	calm						d clouds.
H. P. M .S. Rainha de Portugal, Landana, L. Guinea	29.93	760.2	77.9	25.5	77	ssw.			3		9	ssw.		0	0	2		gloomy.
U. S. S. Brooklyn, S. 36° 01', W. 54° 11'*	30.19	766.8	52	11.1	86	e.	12	5.4			10		e.	0	0	long	ene.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.11	764.8	52	11.1	93	ene.			2		2		ne.			sm'h		fair.
S. S. Teneirs, S. 16° 42', W. 35° 36'	30.12	765 0	77.1	25.1	82	nne.			4	cs	6		sw.	0	0	4	ssw.	d. clouds.
Bk. Aureola, S. 8° 04', W. 34° 50' †	29.97	761.2	92	33.3		se.			2		3		sse.	0	0	mod.	se.	clear.
Bk. E. L. Pettingill, S. 31° 05', W. 39° 30'*†	30.20	767.1	62	16.7		sw.			5		5		sw.	0	0	r'gh	sw.	fair.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.16	766.1	56	13.3		ne.			2		4		s.	0	0			fair.
S. S. Menedoza, S. 35° 56', E. 55° 19'†	30.20	767.1				ne.			3		3		ne.	0	0	mod.	e.	clear.
Bk. Pilgrim, S. 26° 09', E. 5° 16'*†	30.30	769.6				e.			4		2		se.	0	0	cross	var.	fine.
Bkt. Willie, S. 20° 45', W. 38° 45'*†	30.06	763.5	80	26.7		calm			0		10		ne.	6 h'r	6 h'r	mod.	ne.	drizzling.
Bk. Mohican, S. 27° 05', W. 28° 02'	29.93	760.2	71	21.7		w.			3		10		wsw.	0	0	mod.	wnw.	cloudy.
S. S. Olbers, S. 5° 37', W. 34° 56'	30.15	765.8	78	25.0	95	ese.			6		5		se.	10 minutes		sli't	ese.	fair.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.17	766.3	60	15.6	71	wsw.			3							1	wsw.	d. clouds.
Bg. John Wesley, Natal, Brazil*†	29.96	761.0	81	27.2		se.			4		2		se.	½ h'r	½ h'r			clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 41° 40', E. 140° 50'	30.23	767.8	65	18.3	94	se.			2		4	se.				1	se.	d. clouds.
H. M. S. Cleapatra, N. 34° 56', E. 129° 15'	30.04	763.0	71	21.7	80	e.			2		7					sm'h		misty.
H. M. S. Flying Fish, N. 37° 35', E. 121° 29'	30.05	763.3	64	17.8	83	ese.			2		8					4	ne.	d. clouds.
H. M. S. Magpie, N. 5° 22', E. 115° 17'	29.91	759.7	82.4	28.0	77	sw.			1		8							d clouds.
H. M. S. Zephyr, N. 40° 19', E. 131° 15'	30.13	765.3	65	18.3	?	se.			3		0					3	s.	blue sky.
H. P. M. S. Tamegia, Canton, China	29.97	761.3	85.1	29.5	85	s.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.28	769.1	64.5	18.1	89	calm			0		0			inap.	inap.			clear.
U. S. S. Essex, Roze Island, Corea	30.12	765.0	71	21.7	75	s.			2		7					sm'h	s.	fair.
U. S. S. Hartford, Punta Arenas, Costa Rica*	29.86	758.4	77	25.0	95	e.			0–1		5			0	0	sm'h	s;e.	fair.
U. S. S. Juniata, N. 10° 04', E. 110° 13'	29.87	758.7	84	28.9	96	n.			2		2		nnw.	sli't	sli't	long	nnw.	fair.
U. S. S. Monocacy, Roze Island, Corea	30.14	765.5	69	20.0	70	s.			2		7		s.			sm'h		fair.
U. S. S. Palos, Canton, China	30.07	763.8	80	26.7	82	s.			1		0							clear.
U. S. S. Pensacola, N. 23° 31', E. 152° 48' *	29.94	760.5	83	28.3	83	ne.			5		2		ne.	mod.	mod.	mod.	ne.	clear.
U. S. S. Richmond, Yokohama, Japan	30.24	768.1	67	19.4	84	n.			3		2		nw.	0	0			clear.
S. S. Oceanic, N 38° 33', W. 130° 10'	29.61	752.1	65	18.3	94	wsw.			4–5		7		w.	shr's	sh'rs	4–5	sw.	gloomy.
S. S. Columbia, Astoria, Oregon †	29.66	753.4	62	16.7	88	sse.			1		10		calm					cloudy.
S. S. Oregon, San Francisco, Cal.†	29.93	760.2	62	16.7	83	wsw.			4		7		sw.					threatening.
S. S. Willamette, N. 48° 21', W. 125° 08' †	29.61	752 1	52	11.1	100	ese.			6		10		ese.	0.23	5.8	mod.	s.	rainy.
S. S. Ancon, N. 33° 35', W. 118° 08†	29.92	760.0	63	17.2	89	nw.			1		10					light	w.	overcast.
S. S. State of California, San Francisco, Cal.†	29.85	758.2	57	13.9	94	calm			0		7							cloudy.
S. S. Queen of the Pacific, Astoria, Oregon†	29.68	753 9	60	15.6	100	s.			2		9			rain	rain			overcast.
S. S. Victoria, Columbia River, Oregon†	29.64	752.8	59	15.0	88	calm			0		10							foggy.
S. S. City of New York, N. 24° 12' W. 150° 36'†	30.07	763.8	77	25.0	82	sw.			2		0					mod.	sw.	clear.
S. S. City of Pekin, N. 26° 53', E 122° 59'†	30.05	763.3	78	25.6	57	ne.			4		5		n.	0	0	sm'h		fair.
S. S. City of Tokio, N. 27° 15' E. 128° 47'†	29.99	761.7	79	26.1	86	nw.			4		8		nw.	0	0	small	nw.	cloudy.
S. S. City of Rio de Janeiro, N. 36° 30', E. 166° 50' †	30.35	770.9	71	21.7	71	ese.			4		2		e.	0	0	mod.	n.	clear.
S. S. Granada, Panama, Panama †	29.90	759.4	77	25.0	100	nw.			2		5?		nw.	0	0	light	nw.	clear.?
S. S. San Blas, N. 13° 55', W. 91° 14' †	29.91	759.7	82	27.8		se.			7		10		se.	rain	rain	r'gh	se.	cloudy.
S. S. Zealandia, N. 32° 03', W. 136° 08'†	29.80	756.9	74	23.3	95	w.			6		7		w.			r'gh	w.	squally.
S. S. San Juan, N. 34° 32', W. 120° 34'			60	15.6		nw.			3		fg.		nw.	0	0	long	nw.	foggy.
S. Storm King, N. 12° 10', W. 119° 26'*†	29.85	758.2				se.			5		7		se.	5 h'r	5 h'r	chop	sw.	squally.
S. Saint David, N. 37° 45', W. 123° 25'*†	29.94	760.5	63.3	17.4	94	sse.			2		10		var.	8 h'r	8 h'r	long	sw.	raining.
S. E. B. Sutton, N. 17° 00', W. 120° 20'*†	29.93	760.2	77	25.0	91	nne.			3		2		ne.	0	0	sm h	ne;s.	
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42', E. 156° 24'	29.95	760.7	79.3	26.3	89	calm			0		4					sm'h		d. clouds
H. M. S. Mutine, S. 3° 45', W. 81° 40	29.99	761.7	65	18.3		s.			2		10					4	s.	overcast.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	61	16.1	88	s.			2		10							cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Lackawanna, S. 24° 04′, W. 71° 13′*	30.05	763.3	58	14.4	88	s.			4		10					mod.	s.	cloudy.
U. S. S. Onward. Callao, Peru *†	30.12	765.0	60	15.6	88	s.			1		10		s.					cloudy.
U. S. S. Wachusetts, Mollendo, Peru*	30.09	764.3	61	16.1	82	se.			1		8		calm			long	se.	cloudy.
S. S. City of Sydney, Sydney, N. S. W.*†	30.33	770.4	55	12.8	87	s.			3		6 k		s.					fair.
S. Armenia, S. 0° 12′, W. 121° 40′*	29.90	759.4	73	22.8	95	ese.			2		1		se.	0	0	sm'h	sse.	hazy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.08	764.0	66	18.9		se.			4					0	0	long	se.	dense fog.
S. David Crocket, S. 55° 19′, W. 86° 56′*	29.43	747.5	44	6.7	92	ne.			7		10		ne.	24h'r	24 h'r		ne.	raining.
Bk. Godeffroy, S. 59° 41′, W. 74° 30′	29.71	754.6				se.			3		8		se.	0	0	sm'h	w.	cloudy.
S. Sovereign of the Seas, S. 20° 16′, W. 88° 34′*†	30.20	767.1	67	19.4	84	se.			3		10		se.	0	0	long	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 20° 05′, E. 56° 00′	30.17	766.3				e.			4		5	ese.				2	ese.	d. clouds.
H. M. S. Euryalus, Zanzibar, Zanzibar	29.99	761.7	78	25.6	91	calm			0		3	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	80	26.7	87	var.			1		2					2	sse.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.87	758.7	94.5	34.7	36	nw.			4		0							misty.
S. S. Galatia, Calcutta, India †	29.78	756.4	82	27.8	96	e.			1		7		se.	0	0			dull.
S. S. Benledi, N. 20° 30′, E. 39° —′*	29.79	756.7	89	31.7	77	wsw.			2		2		nw.	0	0	light	nw.	
Bk. Great Surgeon, S. 39° 47′, E. 21° 15′ *†	29.75	755.6	61	16.1		w			7		8		w.	4 h'r	4 h'r	r'gh	w.	clearing.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON SEPTEMBER 30, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.92	760.0	78.1	25.6	79	e.			6		0			0	0	clear	Roziere.
Algiers			29.81	757.1	78.4	25.8	37	w.			7		4			0	0	cloudy	Thèvenet.
La Galle			29.79	756.6	81.0	27.2	71	nnw.			1		2			0.059	1.5	fair	Fonfrède.
Tunis			29.81	757.1	80.2	26.8	74	e.			2		3			0	0	pretty fair	Delord.
Saida			29.93	760.1															Pérès.
Tebessa			29.85	758.1	80.6	27.0	56	se.			2		4?			0	0	covered?	St. Martin.
Geriville					71.6	22.0	10	nw.			2		2			0	0	fair	Forfert.
Laghouat			29.88	759.0	83.8	28.8	35	ne.			1		2			0	0	fair	Abraham.
Biskra			29.86	758.5	90.3	32.4	35	se.			2		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.32	770.1	62.0	16.7	46	e.	7	3.1			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.23	767.8	30.33	770.4	51.1	10.6	86	s.	3	1.3			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.04	737.5	29.57	751.0	65.1	18.4	63	sw.			2		2			0.157	4.0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.80	731.6	29.55	750.5	62.2	16.8	68	wsw.	1.3	0.6			4			0.008	0.2		Dr. Wierzbiski
Eperies	28.75	730.3	29.60	751.9	62.2	16.8	74	s.			2		9 s		n.	0.016	0.4		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.30	718.7	29.69	754.0	61.2	16.2	84	nw.			2		5			0.213	5.4		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.10	713.8	29.40	746.7	59.5	15.3	76	wnw.			2		6			0.039	1.0	fair	The Staff.
Lemberg	28.64	727.5	29.59	751.7	64.8	18.2	63	sw			4		7			0	0		Dr. T. Stanecki.
Pola	29.48	748.9	29.60	751.6	64.9	18.3	87	sse.			3		10			0.110	2.8	raining	I. R. Hydrographic Office.
Szathmar	29.16	740.7	29.61	752.2	63.3	17.4	82	s.			4		8			0.024	0.6		Joseph Midlinszky, S. J
Szegedin	29.35	745.4	29.61	752.2	67.5	19.7	61	sw.			1		3			0	0		Karl Stricel.
Trieste	29.51	749.5	29.61	752.0	66.0	18.9	87	s.			2		10			0.291	7.4		Royal Academy.
Vienna	28.87	733.3	29.58	751.4	52.3	11.3	89	se.			2		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.63	752.6	29.73	755.1	50.9	10.5	65	n.	20	8.9			6			0.070	1.8	d. clouds	W. Boswell.
Armagh, Observatory	29.60	751.8	29.84	757.9	51.0	10.6	70	n.	14	6.3									S. Call.
Bidston, Liverpool Obs'y			29.62	752.3	51.0	10.6	67	nnw.	30	13.4			10					overcast	John Hartnup.
Bolton, Sharples																			Thomas Mackereth
Bradford, Yorkshire																0.01	0.3		McLandsborough & Preston.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	82.0	27.8	75	ne.			2		3					d. clouds	Corpl. W. I. Cull, A. H. C
Cardington	29.26	743.2	29.37	746.0	53.0	11.7	80	ne.			5.0		10					overcast	John McLaren.
Chatham, School M. E.	29.09	738.9	29.26	743.2	49.1	9.5	97	nw.			1		10					raining	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.41	747.0	29.64	752.8	55.1	12.8	68	wnw.			6		7					d. clouds	The Staff.
Fort Napier, Natal	27.80	706.1	30.03	762.7	55.2	12.9	90	e.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.60	751.8	29.84	757.9	86.0	30.0	84	e.			1		1					lightning	J. W. Smith.
Galway, Queen's College	29.83	757.7	29.87	758.7	52	11.1	47	n.			3		6			0.01	0.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.92	760.0	29.97	761.2	71.0	21.7	90	nw.			4		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.50	749.3	29.70	754.4	49.9	9.9	51	nnw.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.09	738.9	29.26	743.2	50.2	10.1	89	nnw.			5		10					raining	The Staff.
Guernsey	29.26	743.2	29.55	750.6	55.0	12.8	74	nnw.			3		9					overcast	A. Collenette, F. M. S
Kew, Observatory	29.28	743.7	29.31	744.5	50.1	10.1	85	nnw.	27	12.1			10					threatening	The Staff.
Leicester, Museum	29.18	741.2	29.43	747.5	50.0	10.0	86	nne.			4		10					drizzling	J. C. Smith.
Malta, Mediterranean	29.62	752.3	29.69	754.1	80.2	26.8	76	se.			3		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.11	764.8	82.5	28.1	74	e.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.99	736.3	29.51	749.5	49.4	9.7	78	n.			6		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.18	741.2	29.41	747.0	51.2	10.7	79	nw.			6		10					drizzling	The Staff.
Plymouth	29.50	749.3	29.58	751.3	56.0	13.3	81	n.			4		9					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.71	754.6	29.81	757.2	48	8.9	85						3					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.75	755.6	29.81	757.2	81.0	27.2	55	sw.			2		8					d. clouds	W. H. Lyne.
Sheffield	29.25	742.9	29.53	750.0	51.8	11.0	66	ne.			5		10			0.16	4.1	overcast	W. F. Cooper.
Silloth Rectory	29.65	753.1	29.68	753.9	53.6	12.0	67	n.			6		5			0.015	0.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.61	752.1	50.9	10.5	64	n.	19	8.5			10					overcast	W. C. Carlisle.
Strathfield Turgiss					50.5	10.3	83	nw.			3.6		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.38	746.2	29.46	748.3	55	12.8	81	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.90	759.4	29.92	760.0	55.9	13.3	66	n.	25	11.2			8			blank	blank	squally	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.40	746.7	29.79	756.7	79.5	26.4	75	s.	7.4	3.3		5 c		w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.02	762.5	30.06	763.5	39.0	3.9		sw.	8	3.6			10 n			0	0	misty	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.07	763.8	47	8.3	95	s.	20	8.9			10 n			0.340	8.6	light rain	H. J. Cundall, C. E.
Chatham, N. B*	30.01	762.2	30.07	763.8	34	1.1	100	s.	1	0.4			10 n		s.	0.07	1.8	light snow	G. A. Blair.
Cornwall, Ontario	29.77	756.1	29.96	761.0	43.7	6.5	94	ne.			1		10 s			0.208	5.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.00	762.0	30.05	763.3	36.0	2.2		calm			0	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.	27.83	706.9			14	—10.0	46	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.98	761.5	30.00	762.0	38	3.3	82	calm	0	0		7 k	0	calm		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.16	766.1	25	— 3.9	88	nw.	1	0.4		2 cs	7 k	nw.	nw.	0	0	cloudy	James Stewart.
Fredericton, N. B.	29.94	760.5	30.01	762.2	35.2	1.8	98	ne.	4	1.8			10 n			0.430	10.9	raining	Prof. Thos. Harrison
Grand Manan, N. B.	29.88	758.9	29.93	760.2	48	8.9	96	s.	8	3.6			10 n		n.	0.75	19.0	light rain	J. Chipman Seeley
Granton, Ontario	29.90	759.4	30.03	762.7	36.0	2.2	100	calm	0	0			10 n			0.17	4.3	overcast	Jas. Grant.
Halifax, N. S*	29.93	760.2	30.06	763.5	53	11.7	86	se.	10	4.5			10 n		s.	0.023	0.6	cloudy	A. Allison.
Hamilton, Ontario	29.59	751.6	29.90	759.4	39.7	4.3	84	ne.			1	10 cs		ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.68	753.9	30.03	762.7	41	5.0	79	ne.	10	4.5			10 k		nw.	0	0	cloudy	A. P. Knight, M. A
Little Glace Bay, N. S.	30.05	763.3	30.08	764.0	48.0	8.9	92	se.			4		10 n			0.73	18.5		C. H. Rigby.
London, Ontario	29.10	739.1	30.02	762.5	38.7	3.7	95	calm	0	0			10 n			0	0	overcast	E. B. Reed.
Medicine Hat	27.74	704.6	30.14	765.5	24	—4.4	73	calm	0	0		0	0			0	0	clear	John Ewart.
Montreal, Quebec*	29.78	756.4	29.99	761.7	41	5.0	86	nw.	7	3.1		0	5 ks		n.	0.02	0.5	fair	C. H. McLeod, C. E.
Ottawa, Ontario	29.80	756.9	30.02	762.5	35.3	1.8												blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.34	745.2	30.06	763.5	31	—0.6	100	e.	5	2.2			fg			0.38	9.7	dense fog	Rev. R. Mosley.
Peterboro, Ontario	29.23	742.4	29.98	761.5	37.7	3.2	74	w.			1	0	9 s			0.05	1.3	d. clouds	Wm. O'Connor, M.A.
Port Dover, Ontario	29.29	744.0	29.99	761.7	41	5.0	91	ne.	7	3.1			10 ks		sw.	0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.34	745.2	30.00	762.0	42	5.6	89	ne.	5	2.2			10 n		e.	0	0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.77	705.3	30.26	768.6	11	—11.7	91	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.60	751.8	29.96	761.0	38	3.3	100	calm	0	0			10 ks		e.	0.01	0.3	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.59	751.6	30.07	763.8	32	0.0	92	se.	2	0.9			fg			0.05	1.3	dense fog	W. H. McIntyre.
St. Andrews, N. B.	29.86	758.4	29.91	759.7	47	8.3	100	se.	6	2.7			10 n			0.48	12.2	heavy rain	
St. John, N. B	29.77	756.1	29.91	759.7	46.5	8.1	88	e.	4	1.8			10 n			0.778	19.8	raining	G. Hutchinson.
Saint John's, N. F.	30.00	762.0	30.25	768.3	48	8.9	85	se.			2	0	0			0	0	clear	
St. Pierre, N. F.			30.16	766.0	47.5	8.6		n			4					0.087	2.2		The Commandant.
Saugeen, Ontario*	29.31	744.5	30.06	763.5	30	— 1.1	96	calm	0	0		3 cs	0			0.18	4.6	clear	
Stratford, Ontario	28.72	729.5	30.04	763.0	35.4	1.9	97	calm	0	0			fg.			0.025	0.6	d. clouds	C. T. Macgregor, M. A
S. W. Point, Anticosti	29.98	761.5	30.01	762.2	37	2.8	96	n.	1	0.4			10 n		nw.	0	0	cloudy	Miss Grace Pope

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
Sydney, C. B.	30.13	765.3	30.19	766.8	38	3.3	92	calm	0	0			10 s			0.13	3.3	cloudy	T. C. Hill, C. E.
Toronto, Ontario*	29.65	753.1	30.05	763.3	37	2.8	89	n.	8	3.6		5 ck	0	w.		0.10	2.5	fair	Magnetic Observatory.
Woodstock, Ontario	29.02	737.1	30.09	764.3	46.8	8.2	40	n.	3	1.3		10 k		ne.		0.06	1.5	overcast	Prof. Wolverton, M.A.
Yarmouth, N.S*	29.85	758.2	29.92	760.0	55	12.8	93	se.	15	6.7			10 s		s.	0.02	0.5	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.37	771.4	30.40	772.1	59.5	15.3	79	w.	25.1	11.2		0	5 k			0.040	1.0	clear	I. Garfelt.
Springbok Fontein	27.91	708.9			66	18.9	30									0.03	0.8		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.2	30.01	762.2	56.3	13.5	94	e.			0		10					hazy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.58	751.4	29.69	754.1	47.5	8.6	92	e.			3		3 n		e.	0.205	5.2		Federico Kühling.
Punta Caldera	29.91	759.8	30.00	762.0	57.6	14.2	84	nw.			1		7 ns		nw.			fair	Manuel Tobar.
Punta Corona	29.70	754.4	29.89	759.2				nw.			7		10			0	0	cloudy	Ignacio Ayala.
Valparaiso	29.91	759.6	30.05	763.2	57.2	14.0	89	e.			0							cloudy	Paez-i-Ampuero.
Chinese (*sub-series*).																			
Sung-shu-chwang																			A. Guelay.
Zi-Ka-Wei, near Shanghai.	30.06	763.6	30.09	764.2	65.8	18.8	83	n.	4.9	2.2		ck	8			0.417	10.6	very cloudy	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.45	747.9	29.49	749.1	58.3	14.6	62	sw.	7	3			4						Oversergent Fischer.
Fanoe	29.45	747.9	29.47	748.4	55.9	13.3	75	wsw.	9	4			3						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	30.16	766.1	30.21	767.2	44.4	6.9	87	nw.	4	2			8						A. O. Thorlacius.
Thorshavn	29.99	761.8	30.02	762.4	45.3	7.4	79	n.	9	4			10					raining	Overloerer Bergh.
Vestervig	29.30	744.1	29.39	746.4	53.8	12.1	94	wsw.	9	4			4						Loerer Oesterbol.
Egyptian.																			
Cairo	29.89	759.1			83.7	28.7		n.	2.5	1.1			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.05	737.9	29.69	754.0	59.4	15.2	68	w.			2		10		w.	0.622	15.8	raining	M. Labroue, Director.
Alençon, Normal School	29.10	739.0	29.61	752.0	55.0	12.8	75	nw.			4		n		se	0	0		M. Nicot, Director.
Avignon, Normal School	29.56	750.7	29.63	752.7	61.9	16.6	75	s.			1		5	w.	s.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	28.84	732.4	29.38	746.2	51.8	11.0	90	s.			1		10		w.	0.287	7.3	raining	M. Saillard, Director
Beauvais, Normal School	29.04	737.5	29.30	744.1	55.0	12.8	77	nw.			2		8		nnw.	0.406	10.3	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.49	723.7	29.37	746.1	57.6	14.2	72	ssw.								0.020	0.5		M. Gobin, Director.
Bordeaux, Observatory	29.36	745.7	29.61	752.2	55.8	13.2	90	n.			1		10			0.394	10.0	heavy rain	M. Rayet, Director.
Bourges, Normal School	28.93	734.8	29.43	747.5	57.2	14	85	sw.			2	c		sw.		0.08	2.		M. Malet, Director.
Brest, Naval Observatory	29.45	748.0	29.69	754.2	57.6	14.2	78	nnw.			4		4		nnw.	0.217	5.5		M. de Kermarée, Dir.
Caen, Normal School	29.31	744.4	29.39	746.5	54.7	12.6	90	nw.			4		8		nw.	1.122	28.5	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.00	736.6	29.30	744.3	49.8	9.9	96	s.			6		10			0.043	1.1	covered	M. Jadot, Director.
Charleville, Normal School	28.79	731.2	29.29	744.0	48.2	9	84	se.			1		10			0.12	3.	covered	Prof. M. Bestel.
Clermont-Ferrand Obs'y	28.15	715.1	29.48	748.7	57.9	14.4	58	wsw.			4		8			0.004	0.1		M. Allnard, Director.
Cluny, Normal School	28.60	726.4	29.43	747.4	58.5	14.7	64	s.			4				sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.54	724.9	29.39	746.4	50.7	10.4	84	s.			4		10 kn	s.	s.	0.307	7.8	raining	Dr. Coulet, Director.
Gap, Normal School	27.09	688.2	29.60	751.8	52.5	11.4	73	n.			6		10 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.52	724.4	29.62	752.3	60.3	15.7	52	nw.			1		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	28.88	733.5	29.63	752.7	61.9	16.6	67	sw.			1		kn		w.	0.205	5.2		M. Ablard, Directoor.
Guéret, Normal School	28.02	711.8	29.56	750.9	51.4	10.8	75	sw.			1		8 kn		sw.	0.47	12.	very cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.17	740.8	29.44	747.8	55.4	13	93	nw.			6		8		nw.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.14	740.2	29.77	756.1	55.4	13.0	84	w.			1		10			0.406	10.3	raining	M. Chauvin, Director.
Lorient, Naval Observatory	29.50	749.3	29.60	751.9	59.4	15.2	61	nnw.			4		5	w.	nw.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.47	723.2	29.51	749.6	54.7	12.6	66	s.			4	ck	8 n		w.	0.280	7.1	very cloudy	M. André, Director
Mans, Normal School	29.14	740.2	29.44	747.8	57.0	13.9		n.			4		5		n.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.38	746.2	29.64	752.9	65.3	18.5	51	wsw.			1–2		6		wnw.	fnap.	fnap.		M. Stephan, Director.
Montlouis	24.88	631.9	29.72	754.9	54.3	12.4	34	n.	18.6	8.3			6	e.		0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.46	748.3	29.57	751.0	64.8	18.2	74	sw.			6		5	e.	se.	0	0	light rain	M. Galzin, Director.
Nantes, Observatory	29.41	747.0	29.57	751.1	61.7	16.5	65	wnw.			2–4		8n;kn;k		nw.	0.362	9.2		M. Larocque, Director.
Perpignan, Observatory	29.53	750.1	29.64	752.9	64.2	17.9	69	sw.	1.8	0.8			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.91	531.1			24.8	— 4.0		nw.			2–4		5		nw.	0.315	8.0	snowy	M. Vaussenat, Director.
Privas, Normal School	28.55	725.2	29.59	751.6	60.8	16	62	s.			3		2 k			0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.65	626.2			37.6	3.1	100	wsw.			5		10			0.173	4.4		M. Allnard.
Rochefort, Naval Obs'y	29.53	750.1	29.56	750.9	62.6	17.0	70	wnw.			4		5		nw.	0.008	0.2	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.32	744.7	29.53	750.1	61.5	16.4	98	nw.			2		10		wnw.	0.055	1.4	covered	M. Brotier, Director.
Rodez, Normal School	27.44	697.0	29.63	752.6	50.0	10	82	nw.			1		10		n			raining	M. Seger, Director.
Rouen, Normal School	29.27	743.5	29.32	744.7	56.8	13.8	91	w.			6		5	w.		0.264	6.7	cloudy	M. Mouillot, Dir.
Saint Maur, Observatory	29.15	740.5	29.32	744.7	55.0	12.8	76	nw.			1		10		w.	0.366	9.3	covered	M. Renou, Director.
Toulouse, Observatory	28.96	735.6	29.67	753.7	58.6	14.8	74	w.			4		8	w.		0.079	2.0	very cloudy	M. Baillard, Director.
Tours	29.27	743.4	29.45	747.9	59.4	15.2	70	wsw.			2		8	nw.	wsw.	0.453	11.5	very cloudy	M. de Tastes.
Versailles, Observatory	28.83	732.2	29.32	744.6	54.7	12.6	68	nw.			4		8			0.457	11.0	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.59	751.6	29.74	755.4	54.0	12.2	95	nw.	7.8	3.5			10 kn		w.	2.665	67.7	raining	M. Cartier, Director.
German.																			
Ansbach	28.11	714.0	29.54	750.4	51.1	10.6	78	sw.			2		10	sw.		0.067	1.7		Prof. Jnedt.
Bamberg	28.71	729.2	29.54	750.3	54.1	12.3	76	s.			2		8 k		sw.	0.004	0.1	light rain	Prof. Dr. Hoh.
Berlin	29.40	746.8	29.54	750.4	57.9	14.4	80	calm			0		10			0.016	0.4	raining	Dr. Lensch.
Breslau	29.06	738.2	29.59	751.5	60.3	15.7	68	calm			0		3			0	0		Royal University Obs'y.
Carlsruhe	29.09	738.8	29.53	750.1	60.1	15.6	54	s.			2		9	sw.		0.374	9.5		Albert Senz.
Cassel	28.77	730.8	29.48	748.9	57.6	14.2	68	s			2		7	s.		0.047	1.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.11	739.4	29.47	748.4	57.9	14.4	57	s.			1		8			0.094	2.4		Physical Society.
Friedrichshafen	28.14	714.7	29.53	750.1	53.6	12.0	77	sw.			3		10	w.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	29.81?	757.1?	29.90?	759.4?	63.7	17.6	59	w.			3		2			0.240	6.1		E. Preller.
Kiel	29.47	748.6	29.49	749.0	54.7	12.6	71	calm			0		0			0.157	4.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.14	740.1	29.56	750.7	54.3	12.4	85	sse.			1		10					raining	H. Leppig, Asst.
Magdeburg	29.33	745.0	29.52	749.7	56.5	13.6	72	sse.			1		10	se.		0.094	2.4		Weather Observatory.
Memel	29.56	750.9	29.61	752.1	59.7	15.4	79	ssw.			3		2 k						Issermann.
Munich	27.75	704.8	29.58	751.4	46.9	8.3	86	nw.			1		10	w.		0.740	18.8	raining	Central Station.
Neufahrwasser	29.51	749.6	29.53	750.0	64.4	18.0	63	sw.			1		6			0	0		A. Lothes.
Neustadt, Palatinate	28.92	734.5	29.43	747.6	58.5	14.7	71	s.			1		8	s.		0	0		Dicknether.
Stuttgart	28.57	725.6	29.44	747.7	58.1	14.5	65	sw.			4		8	w.		0.051	1.3		Prof. Dr. Schoder.
Wustrow	29.48	748.7	29.50	749.3	55.0	12.8	81	sw.			2		5 s			0.087	2.2		Profs. Brandes & Reimer
Greek.																			
Athens	29.54	750.4	29.91	759.8	81.1	27.3		sw.			1.0		5			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.81	757.2	29.86	758.5	81.3	27.4	77	wsw.	26.0	11.6			5		wsw.	0	0	d. clouds	
Deesa	29.32	744.8	29.79	756.6	89.2	31.8	56	w.	1.0	0.4			4	w.		0.07	1.8	d. clouds	
Bombay	29.85	758.3	29.89	759.2	78.3	25.7	89	nw.	12.0	5.4			10		w.	0.24	6.1	overcast	
Poona, Yarrowda	28.04	712.1	29.91	759.8	72.7	22.0	84	nw.	21.0	9.4			9			1.29	32.8	d. clouds	
Trichinopoly	29.58	751.2	29.85	758.2	89.5	31.9	56	nw.	0.2	0.1			7			0.56	14.2	d. clouds	
Bellary	28.34	719.8	29.78	756.5	89.0	31.7	36	w.	10.0	4.5			4			0	0	d. clouds	
Belgaum	27.36	694.9	29.91	759.8	72.9	22.7	73	wsw.	12.0	5.4			4	e.	w.	0.03	0.8	d. clouds	
Lahore	29.06	738.1	29.80	756.8	85.8	29.9	51	calm	0	0			0			0	0	blue sky	
Roorkee	28.87	733.3	29.76	755.8	87.2	30.7	42	nw.					3	w.		0	0		
Agra	29.24	742.6	29.79	756.6	94.8	34.9	29	sw.	2.0	0.9			0		w.	0	0		
Nagpur	28.75	730.3	29.79	756.6	83.3	28.5	59	calm	1.0	0.4			9		w.	0.04	1.0	gloomy	
Jubbulpore	28.49	723.6	29.83	757.7	85.1	29.5	55	ne.	4.0	1.8			3	n.		0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Lucknow	29.38	746.3	29.75	755.7	88.1	31.2	45	wnw.	1.7	0.8			0			0	0	blue sky	
Allahabad	29.48	748.9	29.79	756.8	84.5	29.2	61	calm	0	0			9	nw		0	0	d. clouds	
Patna	29.50	749.3	29.68	754.0	86.2	30.1	78	ene.	2.0	0.9			4	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.81	706.3	29.80	756.8	82.5	28.1	51	nw.	4.7	2.1			0			0	0	blue sky	
Cuttack	29.71	754.6	29.79	756.6	85.7	29.8	76	calm	0	0			7			0	0	d. clouds	
Calcutta, Alipore	29.78	756.3	29.80	756.9	83.2	28.4	81	ene.	1.0	0.4			8			0	0	d. clouds	
Dhubri	29.70	754.3	29.81	757.3	80.7	27.1	73	calm	0.6	0.3			0			0	0	blue sky	
Chittagong	29.75	755.7	29.84	758.0	81.2	27.3	82	calm	2.2	1.0			4			0	0	d. clouds	
Sibsagar	29.50	749.3	29.84	757.8	82.9	28.3	81	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.42	721.9	29.86	758.3	84.2	29.0	44	ene.	6.0	2.7			7		se.	0	0	d. clouds	
Zanzibar	30.00	762.0			81.0	27.2	71	ssw.	3.9	1.7			7		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.17	741.0	29.57	751.1	66.0	18.9	68	s.	1.3	0.6			10			0.248	6.3		Prof. Giovanni Clodig.
Milan	28.98	736.2	29.49	749.0	66.7	19.3	58	ssw.	4.9	2.2			5	sw.		0.461	11.7		Prof. G.V.Schiapparelli
Padua	29.44	747.8	29.55	750.5	66.7	19.3	64	s.	2.5	1.1			10	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.56	725.3	29.44	747.8	64.4	18.0	62	e.	0	0			3	nne.		0	0		Prof. F. F. Densa.
Genoa	29.36	745.7	29.54	750.4	66.9	19.4	55	sw.	13.6	6.1			2	sw.		0.236	6.0		Prof. G. M. Garibaldi.
Mondovi	27.59	700.8	29.46	748.3	63.5	17.5	54	w.			6		2			0.016	0.4		Prof. D. C. Bruno.
Pesaro	29.54	750.3	29.59	751.5	67.6	19.8	74	s.	6.3	2.8			10	w.		0.039	1.0		Prof. Luigi Guidi.
Florence	29.36	745.7	29.61	752.0	64.4	18.0	73	sw.			2		10			0.307	7.8		Prof. Costantino Pittei
Leghorn	29.48	748.7	29.56	750.8	69.8	21.0	62	sw.	12.5	5.6			7	sw.		0	0		Prof. P. Monte.
Rome	29.47	748.6	29.64	752.9	70.3	21.3	64	wsw.	3.1	1.4			9			0.728	18.5		Prof. P. Tacchini.
Lecce	29.52	749.9	29.77	756.1	70.5	21.4	68	ene.	2.5	1.1			10			0.631	0.8		Prof. C. de Giorgi.
Cosenza	28.91	734.4	29.78	756.4	68.4	20.2	61	sse.	1.8	0.8			6	se.		0.291	7.4		Prof. D. Conti.
Cagliari	29.47	748.4	29.65	753.2	69.6	20.9	69	nw.			4		10			0.028	0.7		Prof. A. Pacinotti.
Palermo	29.48	748.8	29.72	754.9	70.9	21.6	76	ne.	3.8	1.7			6	wsw.		0.634	16.1		Prof. G. Cacciatore.
Syracuse	29.71	754.7	29.76	755.8	78.1	25.6	75	s.	6.3	2.8			4	sw.		0.079	2.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.19	741.4	29.70	754.3	66.6	19.2	76	sw.	13.6	6.1			10	ssw.		0.484	12.3		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.04	763.1	30.08	764.1	64.2	17.9	94	se.			2		10 k		sw.	0.311	7.9	cloudy	H. Hattori.
Awomori	30.02	762.5	30.05	763.3	60.8	16.0	87	wsw.	1.2	0.5			10 s			0.163	4.1	overcast	K. Ogawa.
Hamamatsu	29.89	759.2	29.99	761.7	64.6	18.1	88	ne.			4		10 n			0.476	12.1	raining	Sekigawa & Yamazaki.
Kagoshima	29.94	760.4	29.95	760.7	67.9	19.9	95	nne.			2		10 s			0.232	5.9	overcast	G. Miyanomaza.
Kanazawa	29.91	759.8	30.02	762.4	62.6	17.0	97	se.	1.5	0.6			10 n			0.890	22.6	raining.	S. Endo.
Kioto	29.85	758.1	30.02	762.5	65.6	18.7	88	nne.	0.4	0.2			10 s			0.330	8.4	cloudy	M. Tojima.
Kochi	29.95	760.8	29.98	761.3	65.4	18.6	82	w.	5.1	2.2			10 s			0.35	8.9	overcast	K. Kusunose.
Minaaka	29.94	760.5	29.97	761.2	66.7	19.3	93	wnw.			1		10 n		e.	2.429	61.7	raining	K. Masuaki.
Miyako	30.05	763.3	30.16	766.1	59.5	15.3	97	w.	0.4	0.2			10 n			1.610	40.9	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.79	756.6	29.99	761.7	63.9	17.7	96	nne.	6.9	3.0			10 n			0.900	22.9	light rain	S. Takenayasu.
Niigata	30.01	762.2	30.05	763.3	67.3	19.6	73	se.	8.8	3.9			10 s			0.345	8.8	overcast	Satoo & Tomikawa.
Nobiru	30.10	764.4	30.11	764.8	66.1	18.9	93	e.	8.9	3.9			10 n			0.955	24.3	raining	Yoshino & Midzushina.
Numazu	30.02	762.5	30.06	763.4	64.1	17.8	92	ne.			2		10 n			0.291	7.4	raining	K. Kaneda.
Osaka	29.99	761.9	30.01	762.3	65.0	18.3	88	ne.	9.4	4.2			10 n			0.340	8.6	light rain	H. Omura.
Sakai	30.03	762.8	30.04	763.0	61.9	16.6	96	calm			0		10 n		sw.	0.750	19.2	raining	Yamawchi&Sakamoto.
Shimonoseki	29.88	759.0	30.03	762.7	63.0	17.2	96	calm			0		10 n			1.992	50.6	raining	S. Sakaido.
Tokei Obs'y, Yeddo	30.00	762.0	30.07	763.9	65.6	18.7	96	n.	9.2	4.1			10 n			0.918	23.3	raining	The Staff.
Wakayama	29.93	760.1	29.98	761.4	66.6	19.2	87	e;ene	1.9	0.8			10 n			0.263	6.7	raining.	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.02	762.5	30.22	767.6	72.8	22.7	72	e.	26.0	11.6		0	6 k;n		e.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.04	763.0	57.2	14.0	89	w.	0.9	0.4		6 c	4ck;s			0	0	overcast	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.7	78.0	25.6	84	nne.	0.9	0.4		1 cs	2 cn		w.	0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata					77	25.0	90	ne.			1	0	2 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.34	745.1	29.34	745.1	54.0	12.2		ese.			4					0	0		
Groningen	29.38	746.3	29.44	747.7	52.7	11.5		s.			1					0	0		
Helder	29.41	746.9	29.41	746.9	53.2	11.8		se.			2					0	0		
Hellevoetsluis	29.35	745.4	29.35	745.4	56.1	13.4	64	ese.			2					0.150	3.8		
Utrecht	29.35	745.4	29.39	746.6	54.9	12.7	70	se.			2		5			0.024	0.6	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.7			81.1	27.3	74	ne.	1.1	0.4			7			0	0		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.37	746.0	29.43	747.6	52.9	11.6	69	ne.	12.3	5.5			7			0	0		
Brono	29.69	754.2	29.73	755.2	43.5	6.4	51	nnw.			4		1			0	0		
Christiania	29.39	746.4	29.53	750.1	44.4	6.9	76	nne.	18	8			10			0.012	0.3	raining	
Gjæsvær	29.40	746.7	29.42	747.3	35.2	1.8		nw.			6		10						
Lodingen	29.66	753.4	29.71	754.0	37.6	3.1	76	wnw.			2		10			0	0		
PORTUGUESE.																			
Angra, Azores					69.4	20.8	75	nne.	1.8	0.8			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.07	763.7	30.15	765.9	71.6	22.0	63	nw.	1.3	0.6			3	n.		0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.3	30.03	762.7	64.4	18.0	53	nnw.	18.1	8.1			8			0.016	0.4		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	72.0	22.2	54	nne.	4.9	2.2			5			0	0		
Saint Paul de Loando	29.76	755.8	29.96	761.0	72.9	22.7	95	nw.			2		10			0	0		
San Salvador, Congo	28.14	714.8	29.98	761.5	77.7	25.4	59	sw.			1		10						
Serra da Estrella	25.17	639.2	29.96	761.0	40.5	4.7	100	nw.	31.1	13.9			10			0.677	17.2	light fog	
RUSSIAN.																			
Akmolinski	28.97	735.8	30.03	762.8	58.3	14.6	31	wsw.	20	9		5 c	0			0	0		Major K. Lasarew.
Archangel	29.68	753.8	29.70	754.3	37.0	2.8	75	s.	4	2			10			0	0	slight clouds	Capt. Sselliwerstow
Ashurada	30.11	764.7	30.01	762.3	76.8	24.9	80	nnw.	11	5		0	1 k			0	0		
Astrakhan	30.11	764.8	30.04	763.0	68.2	20.1	57	se.	11	5		0	0			0	0		Capt. Wisganow.
Baku	30.05	763.2	30.00	762.0	72.9	22.7	78	s.	22	10		2 ck	0			0	0		
Barnaul	29.56	750.7	30.06	763.5	48.0	8.9	49	sw.	4	2			10			0.063	1.6		Meteorological Obs'y
Bielosersk	29.18	741.2	29.64	752.9	52.9	11.6	92	wsw.	4	2			10 ks			0	0		
Dorpat	29.38	746.2	29.61	752.2	58.1	14.5	81	sse.	4	2		c	9 ks			0	0		Observatory.
Ekaterinburg	28.88	733.6	29.84	757.8	53.8	12.1	62	wsw.	18	8			9 n			0.079	2.0		Meteorological Obs'y.
Elissawetgrad	29.30	744.3	29.74	755.4	65.1	18.4	83	ssw.	4	2			10 n			0	0		
Irkutsk	28.33	719.5	29.95	760.8	52.3	11.3	59	nw.			3		9						
Kasalinsk																0.059	1.5		Observatory.
Kasan	29.58	751.4	29.84	758.0	65.7	18.7	51	sse.	20	9		0	3 k			0	0		
Kem	29.63	752.6	29.68	753.9	36.0	2.2	65	calm	0	0		0	6 k			0	0		Lagorio & Sastyrea.
Kertch	29.74	755.3	29.76	755.9	75.2	24.0	75	calm	0	0		0	7 k			0.130	3.2		Observatory.
Kieff	29.01	736.9	29.63	752.5	63.7	17.6	88	sse.	7	3			10ks;n			0	0		
Koslov	29.26	743.1	29.74	755.5	68.2	20.1	56	ssw.	13	6			9 s			0.035	0.9		E. Quaas.
Libau	29.54	750.2	29.56	750.8	59.0	15.0	81	s.			4		4			0.130	3.3		Meteorological Obs'y.
Lugan	29.57	751.1	29.77	756.2	64.6	18.1	86	sse.	4	2			10			0.031	0.8		Meteorological Obs'y
Moscow	29.22	742.3	29.69	754.0	60.8	16.0	71	sw.	1.1	0.5		0	8 ks			0.264	6.7		Capt. Kurdakow.
Nikolaiev	29.67	753.6	29.74	755.4	69.8	21.0	75	s.	11	5			10 kn						Iwanow.
Nikolaievsk-on-the-Amoor					51.8	11.0	87	e.	4	2		1 c	0			0	0		Physical Observatory.
Pekin, China	30.04	763.1	30.19	766.7	60.1	15.6	52	se.	2.2	1.0		0	0			0.031	0.8		
Petro-Alexandrovsk	29.80	756.9	30.15	765.7	65.1	18.4	20	n.	2.2	1.0		0	1 s			0.354	9.0		Dr. Bergmann.
Petrozavodsk	29.34	745.3	29.54	750.4	41.0	5.0	97	nw.	7	3			10						

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mlts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pinsk	29.09	738.9	29.57	751.0	65.7	18.7	63	ssw.	18	8		0	7 ks			0.083	2.1		
Poti	29.86	758.5	29.89	759.3	89.1	31.7	68	calm	0	0		0	2 k			0	0		
St. Petersburg	29.57	751.0	29.59	751.6	55.2	12.9	80	w.	7	3			9 kn			0.071	1.8		Central Physical Obs'y.
Samarkand	27.61	701.4	30.04	763.0	63.9	17.7	46	calm	0	0			10 n			0	0		
Semipalatinsk	29.50	749.3	30.16	766.1	51.6	10.9	46		4	2			2			0	0		Major Lasarew
Sevastopol	29.58	751.4	29.79	756.6	72.0	22.2	81	wsw.	27	12			9 n			0.028	0.7		
Staroi Bykhov	29.06	738.2	29.59	751.6	70.7	21.5	54	se.	7	3		cs	7 k			0	0		
Tashkend Laboratory	28.37	720.6	30.02	762.6	60.4	15.8	57	calm	0	0			10 n			0	0		Terch, A. M
Tiflis	28.59	726.2	29.95	760.7	77.7	25.4	42	se.	7	3		0	0			0	0		Physical Observatory.
Vernoe	27.51	698.8	29.97	761.1	62.2	16.8	56	calm	0	0		7 cs	0			0	0		
Viatka	29.25	743.0	29.89	759.2	41.5	5.3	83	calm	0	0			10			0	0		
Warsaw	29.16	740.6	29.57	751.0	61.7	16.5	68	sw.	2	1			9 kn			0	0	hv. clouds	Astronomical Obs'y.
Yeniseisk	29.63	752.6	29.93	760.1	37.8	3.2	91	w.	16	7			10			0.059	1.5	raining	M. O. Marks.
Scottish.																			
North Unst																			Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.52	749.8	29.62	752.4	74.1	23.4	53	wnw.	11.2	5.0		0	4			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.80	757.0	29.86	758.5	56.8	13.8	87	nw.	4.7	2.1		2	6	se.		0.764	19.4	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.86	682.4	29.80	756.9	55.4	13.0	55	w.	8.7	3.9			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.61	701.4	29.81	757.2	60.1	15.6	46	nw.	21.0	9.4		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.61	752.2	29.76	755.9	74.3	23.5	38	nnw.	5.1	2.3		3	4		se.	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.09	738.8	29.85	758.1	52.7	11.5	93	e.	2.9	1.3		8 n	8 k	w.	ne.	0.535	13.6	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.00	736.7	29.89	759.3	58.8	14.9	82	nw.	7.4	3.3			8			0.224	5.7	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.02	762.5	30.08	764.1	77.4	25.2	87	se.	2.2	1.0		0	k			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.69	754.1	29.75	755.6	77.2	25.1	86	se.	13.2	5.9			10 n			0.256	6.5	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.00	759.5	30.00	762.0	65.5	18.6	63	w.	16.8	8.4		0	2		w.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.92	760.0	30.01	762.3	80.6	27.0	84	calm	0	0		3 s	5 kn		e.	0.118	3.0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Hapsaranda	29.69	754.0	29.72	755.0	36.7	2.6	79	calm			0		0			0	0		
Umea	29.67	753.5	29.72	754.8	42.4	5.8	47	ne.			4		5			0	0		
Hernosand	29.63	752.6	29.68	753.9	41.7	5.4	78	nne.			4		10			0.181	4.6		
Stockholm	29.35	745.4	29.52	749.9	49.6	9.8	98	e.			2		10			0.047	1.2	raining	
Wisby	29.42	747.3	29.48	748.8	57.6	14.2	90	sse.			4		10			0.028	0.7		
Sub-series.																			
Upsala	29.43	747.5	29.52	749.7	51.3	10.7	97	n.					10			0.118	3.0		H.H. Hildebrandesson.
Swiss.																			
Geneva	28.13	714.4	29.54	750.4	57.2	14.0	58	s.			1		10			0.260	6.6	covered	The Observatory.
Turkish.																			
Constantinople			29.88	758.9	78.4	25.8	53	sw.	13	6.0			4		sw.	0	0		The Observatory.
Valona			29.93?	760.2?	73.8	23.2		s.			1		10			1.18	30.	raining	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.5	82.6	28.1	56	w.			1		6 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.56	674.6			72	22.2	71	nw.			1	4 c	5 n	w.	w.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.83	757.7	29.91	759.7	53	11.7	86	w.	3	1.3			10s; fg			0.42	10.7	cloudy	J. O. Barnes.
Alpena, Michigan	29.38	746.2	30.03	762.7	33	0.6	88	nw.	5	2.2		3 k	2 s	w.	w.	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.88	758.9	44	6.7	86	e.	2	0.9		0	0			inap.	inap.	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.21	691.1	30.06	763.5	30	— 1.1	71	e.	2	0.9		0	sk			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.09	764.3	70.0	21.1	76	w.	12	5.4		0	7 ks		w.	0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	29.88	758.9	29.88	758.9	66	18.9	93	w.	0	2.7		4 ck	4 s; fg			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	69.0	20.6	93	s.	2	0.9			10 s		sw.	0	0	cloudy	D. J. Young.
Baltimore, Maryland	29.90	759.4	29.95	760.7	67	19.4	78	w.	4	1.8			10 s		w.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	65.0	18.3	97	w.	12	5.4			10 s		w.	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	29.92	760.0	29.94	760.5	39.2	4.0	72	nw.	12	5.4		0	7 k		?	0.1?	3.?	fair	Geo. Chernick.
Bennett, Fort, Dakota	28.56	725.4	30.15	765.8	32.0	0.0	62	se	2	0.9		hz.	hz.			0	0	light haze	A. Pritchard.
Benton, Fort, Montana	27.24	691.9	30.08	764.0	42	5.6	59	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.34	719.8	30.14	765.5	17	— 8.3	83	calm	0	0		1 cs	0	w.		0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.87	758.7	29.90	759.4	63	17.2	96	sw.	12	5.4			10 ks		sw.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.06	687.3	29.83	757.7	40	4.4		nw.	1	0.4			10 s			0	0	cloudy	J. Kenealy.
Boston, Massachusetts	29.70	754.4	29.85	758.2	62.0	16.7	90	sw.	6	2.7			10 s		sw.	0.04	1.0	threatening.	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.05	763.3	75.0	23.9	97	e.	2	0.9		0	0			0	0	clear	E. C. Imlay.
Buffalo, New York	29.23	742.4	29.96	761.0	43	6.1	93	ne.	7	3.1			10 s		ne.	0.05	1.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.14	714.7	30.12	765.0	19	— 7.2	70	e.	9	4.0		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.61	752.1	30.01	762.2	66.1	18.9	91	sw.	6	2.7		0	2 ks		nw.	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.50	749.3	29.70	754.4	58.0	14.4	87	se.	15	6.7			10 s		se.	inap.	inap.	cloudy	O. D. Stewart.
Cape Henry, Virginia	29.97	761.2	29.99	761.7	70.0	21.1	90	sw.	12	5.4			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	67.0	19.4	97	sw.	10	4.5			10 s		se.	0	0	cloudy	W. E. Smith.
Cape Mendocino, California	29.09	738.9	29.77	756.1	57	13.9	93	se.	30	22.5			10 ks		se.	0.78	19.8	threatening.	J. J. McLean.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	81.0	27.2	72	s.	5	2.2		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	76.0	24.4	90	sw.	3	1.3		3 c	fg.			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.05	763.3	64.0	17.8	90	sw.	4	1.8			10 s		sw.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.07	763.8	68.0	20.0	90	nw.	4	1.8			10 n		w.	inap.	inap.	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.94	760.5	46.7	8.2	17	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	52.5	11.4	86	ne.	6	2.7			10 s		ne.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.92	760.0	29.94	760.5	70	21.1	84	nw.	5	2.2			10 ks			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.29	744.0	29.94	760.5	65.0	18.3	78	s.	2	0.9		1 c	0			inap.	inap.	clear	L. Dunne.
Cleveland, Ohio	29.21	741.9	29.93	760.2	51.5	10.8	88	ne.	4	1.8			10 s		ne.	1.23	31.2	cloudy	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.07	738.4	29.91	759.7	60	15.6	81	s.	2	0.9			10 s		sw.	0.95	24.1	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	30.02	762.5	69.0	20.6	90	s.	4	1.8			10 s		s.	0	0	cloudy	J. McGlone.
Custer, Fort, M. T.	26.87	682.5	29.99	761.7	38	3.3	65	ne.	1	0.4		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.34	745.2	30.00	762.0	46	7.8	83	ne.	14	6.3		hz.	hz.			0	0	light haze	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.99	761.7	61	16.1	78	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.11	714.0	29.86	758.4	51	10.6	61	calm	0	0		0	sk.			0	0	dense smoke	D. Moore.
Deadwood, Dakota	25.42	645.7	29.98	761.5	48	8.9	77	calm	0	0			sk.			0	0	dense smoke	F. Des Willson.
Delaware Breakwater, Del.	29.91	759.7	29.93	760.2	66	18.9	100	sw.	8	3.6		10 ck	hz.	sw.		0	0	cloudy	T. S. Townsend.
Denver, Colorado	24.77	629.1	29.88	758.9	51.5	10.8	28	s.	11	4.9		hz.	0			0	0	dense haze.	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.06	763.5	45	7.2	83	ne.	3	1.3			10 s		ne.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.25	742.9	29.94	760.5	45.5	7.5	83	n.	9	4.0			10 s		w.	0.19	4.8	cloudy	E. R. Brace.
Dodge City, Kansas	27.49	698.2	30.04	763.0	47	8.3	71	s.	12	5.4			fg.			0	0	dense fog	J. H. Bryce.
Dubuque, Iowa	29.34	745.2	30.04	763.0	40.2	4.6	79	n.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	30.00	762.0	34.7	1.5	71	nw.	27	12.1		0	4 s		nw.	0	0	fair	N. B. Conger.
Eastport, Maine	29.83	757.7	29.90	759.4	49.0	9.4	93	se.	9	4.0			10n; fg		s; se	0.64	16.3	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.25	692.1	29.94	760.5	60	15.6	93	sw.	4	1.8		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.31	668.3	29.96	761.0	58.0	14.4	100	calm	0	0		1 cs	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.25	742.9	29.96	761.0	50	10.0	86	e.	3	1.3			10 s		n.	0.87	22.1	cloudy	C. A. Shaw.
Escanaba, Michigan	29.38	746.2	30.04	763.0	35.5	1.9	100	n.	4	1.8		2 ck	4 s		n.	0	0	fair	George Heathcote.
Galveston, Texas	30.05	763.3	30.09	764.3	79	26.1	91	s.	8	3.6		hz.	2 ks		se.	inap.	inap.	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.34	745.2	30.00	762.0	40.0	4.4	89	ne.	8	3.6		8 ck	0	w.		inap.	inap.	cloudy	Wm. H. Fallon.
Grant, Fort, Arizona	25.27	641.8	29.87	758.7	60.1	15.6	60	e.	7	3.1		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	73.0	22.8	84	sw.	16	7.2		3 c	hz.	sw.		0	0	clear	R. M. Crawford
Helena, Montana	25.76	654.3	29.93	760.2	41	5.0	50	n.	4	1.8		0	0			0	0	clear	F. H. Jones.

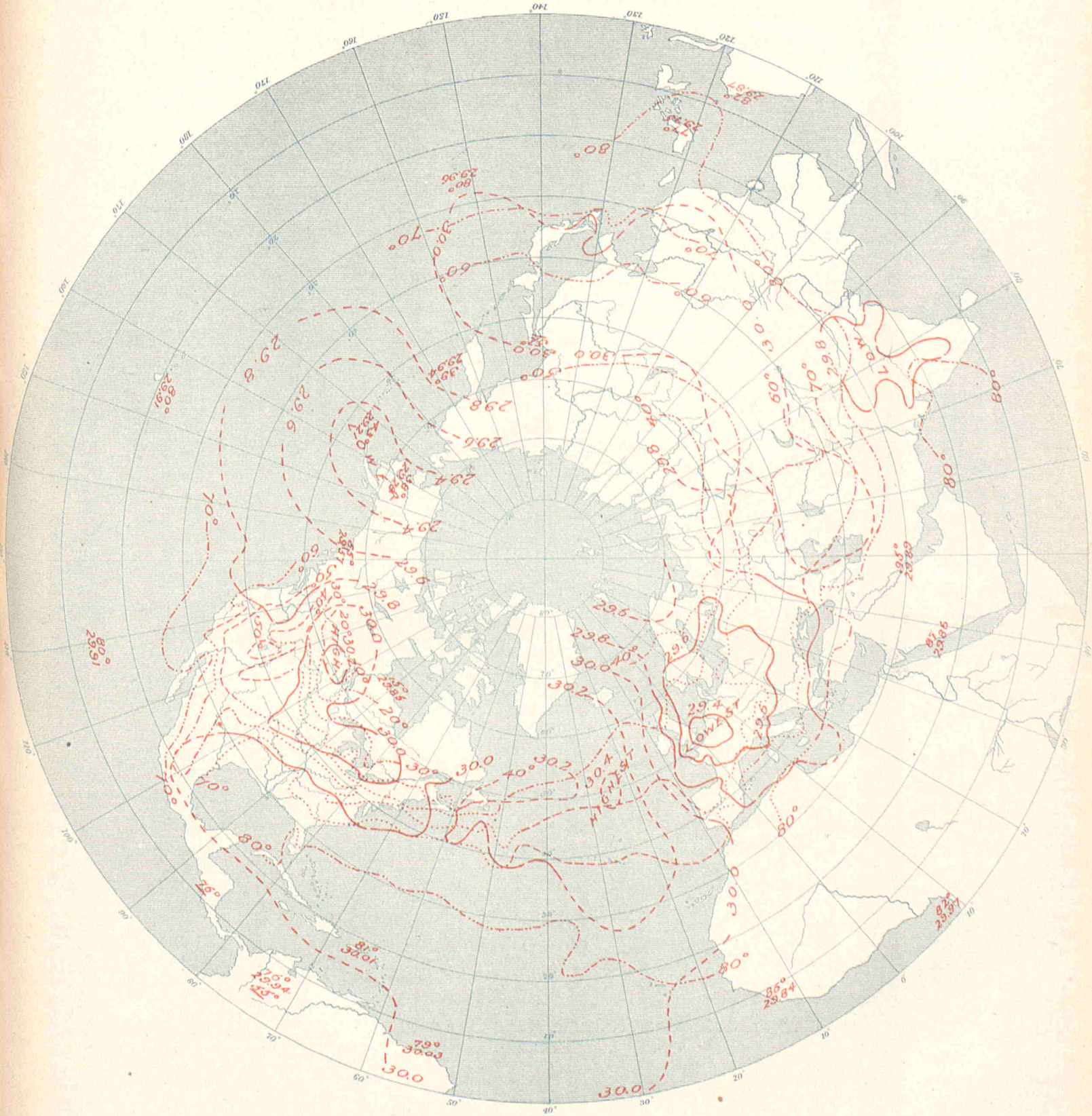
Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
United States.—Cont'd.																			
Huron, Dakota	28.76	730.5	30.14	765.5	30.8	— 0.7	77	n.	2	0.9			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.87	758.7	62.0	16.7	84	calm	0	0		0	4 s		w.	0.33	8.4	fair	C. F. R. Wappenhans.
Indianola, Texas	30.05	763.3	30.08	764.0	78.0	25.6	91	s.	6	2.7		0	2 ks		sw.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.10	764.5	30.14	765.5	74.0	23.3	94	s.	2	0.9		3 cs	fg.			0	0	fair	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.32	744.7	29.97	761.2	53.0	11.7	93	n.	8	3.6			10 s		n.	0.20	5.1	cloudy	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	82	27.8	74	e	8	3.6		0	0			0.77	19.6	clear	A. W. Browne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	71	21.7	90	sw.	7	3.1		2 ck	hz.	sw.		0	0	clear	H. Mc P. Baldwin.
Knoxville, Tennessee	29.06	738.1	30.08	764.0	61.3	16.3	99	sw.	4	1.8			10 n		w.	0.39	9.9	light rain	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.04	763.0	40	4.4	82	sw.	4	1.8			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.12	739.6	30.00	762.0	55	12.8	86	n	12	5.4			10 s			0	0	cloudy	T. S. Outram.
Lewiston, Idaho					49.0	9.4	72	calm	0	0			sk.			0	0	dense smoke	C. E. Butler.
Little Rock, Arkansas	29.71	754.6	30.02	762.5	71	21.7	90	calm	0	0			10 n			inap.	inap.	light rain	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	58	14.4	96	ne	2	0.9			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.95	760.7	65	18.3	84	s.	3	1.3		3 k	0	w.		0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.31	744.5	29.99	761.7	63.5	17.5	90	calm	0	0			10s:fg			0	0	cloudy	Louis Duane.
Mackinaw City, Michigan	29.41	747.0	30.06	763.5	40.0	4.4	82	n.	4	1.8		0	0			0.01	0.3	clear	D. B. Notson.
Macon, Fort, North Carolina	30.08	763.3	30.06	763.5	74.0	23.3	82	w.	16	7.2		5 k	0	sw.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.58	649.7	29.98	761.5	38	3.3	44	e.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.32	744.7	30.04	763.0	38.0	3.3	72	sw.	5	2.2		9 k	0	sw.		0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.03	762.7	72	22.2	90	s.	4	1.8			10 n			inap.	inap.	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.26	743.2	30.00	762.0	41	5.0	82	n.	9	4.0			10 s		n.	0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.09	764.3	30.13	765.3	73	22.8	98	calm	0	0			fg.			0	0	dense fog	H. U. Jones.
Montgomery, Alabama	29.89	759.2	30.12	765.0	72.5	22.5	93	w.	6	2.7			10 s			0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.01	736.8	30.00	762.0	21	— 6.1	84	calm	0	0		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.57	598.7	29.72	754.9	29.0	— 1.7	100	w.	44	19.6			fg.		w.	0.31	7.9	dense fog	S. W. Beall.
Nashville, Tennessee	29.45	748.0	30.02	762.5	67.0	19.4	93	sw.	1	0.4		6 cs	6c 3	w.		0.30	7.6	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.76	755.9	29.87	758.7	63.5	17.5	90	sw.	6	2.7			10 s		sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.88	758.9	29.93	760.2	60	15.6	81	w	8	3.6			10 s		w.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	75.0	23.9	94	se.	1	0.4			fg.			0	0	dense fog	M. Herman.
New York, New York	29.72	754.9	29.89	759.2	62.2	16.8	99	sw.	2	0.9			10s;fg		sw.	0	0	threatening	H. J. Peurod.
Norfolk, Virginia	29.95	760.7	29.98	761.5	68.8	20.4	90	sw.	8	3.6			10s;fg		sw.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.15	689.0	30.03	762.7	50.1	10.1	78	calm	0	0			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.70	754.4	29.74	755.4	53.0	11.7	90	calm	0	0			10 s			inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.09	764.3	44.0	6.7	93	n.	4	1.8		0	fg.			inap.	inap.	clear	A. Pollak
Ooglaamie, Alaska																			P. H. Ray.
Oswego, New York	29.66	753.4	29.98	761.5	44.5	6.9	80	ne.	12	5.4			10 ks		ne.	0.18	4.6	cloudy	J. G. Linsley
Palestine, Texas	29.55	750.6	30.10	764.5	73.5	23.1	94	sw.	10	4.5			10 ks		sw.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	73.8	23.2	97	w.	4	1.8		3 c	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.78	756.4	29.88	758.9	65.5	18.6	97	sw.	5	2.2			10s;fg		sw.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.03	458.0	30.01	762.2	27	— 2.8	74	w.	28	12.5		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.11	739.4	29.90	759.4	63.0	17.2	81	w.	5	2.2		10 cs	0	w.		inap.	inap.	cloudy	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.28	743.7	29.95	760.7	41.0	5.0	82	ne.	6	2.7			10 s		n.	0.01	0.3	cloudy	M. H. Perry
Portland, Maine	29.82	757.4	29.87	758.7	44.0	6.7	83	n.	11	4.9			10 n		e.	0.75	19.0	light rain	W. W. Eichelberger.
Portland, Oregon	29.68	753.9	29.75	755.6	53.0	11.7	100	w.	2	0.9			fg.			0.03	0.8	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.85	631.2	29.95	760.7	49	9.4	68	sw.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.85	758.2	29.88	758.9	62.5	16.9	97	sw.	8	3.6			10s;fg		sw.	0.02	0.5	cloudy	O. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.50	749.3	29.85	758.2	60	15.6	87	s.	16	7.2			10 ks		s.	1.04	26.4	cloudy	J. R. Williams.
Rochester, New York																			E. W. McGann.
Roseburg, Oregon	29.22	742.2	29.77	756.1	53	11.7	92	n.	0	2.7			10 n		sw.	0.22	5.6	light rain	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	62.5	16.9	89	s.	4	1.8			10 s			0.76	19.3	cloudy	J. A. Barwick
St. Louis, Missouri	29.33	745.0	29.94	760.5	66.5	19.2	84	s.	12	5.4		0	7k;s		w.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.25	742.9	29.28	743.7	38	3.3	94	n.	27	12.1			10 n		n.	0.11	2.8	light rain	A. P. Leavitt.
St. Paul, Minnesota	29.20	741.7	30.05	763.3	31.5	— 0.3	58	w.	4	1.8		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.25	742.9	30.12	765.0	18	— 7.8	91	calm	0	0		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.61	650.5	29.86	758.4	62	16.7	33	calm	0	0		0	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.90	759.4	29.97	761.2	61.0	16.1	93	ne.	6	2.7		0	fg.			0	0	clear	F. R. Day.
Sanford, Florida	30.06	763.5	30.11	764.8	74	23.3	90	se.	2	0.9		0	fg.			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.26	743.2	29.94	760.5	54	12.2	93	e.	18	8.0			10 ks		e	0.34	8.6	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.86	758.4	29.89	759.2	65.0	18.3	78	sw.	16	7.2			10 k		sw.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	60	15.6	93	sw.	10	4.5			10 n		sw.	0.41	10.4	light rain	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	76	24.4	85	sw.	8	3.6		5 c	hz.			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.30	668.0	29.92	760.0	36	2.2	72	w.	4	1.8		5 ck	sk.	w.		0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.80	756.9	30.04	763.0	72.5	22.5	86	sw.	4	1.8			10 s		sw.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.76	730.5	29.98	761.5	70	21.1	70	calm	0	0			fg.			0.07	1.8	dense fog	W. M. Mattingly
Sitka, Alaska	29.51	749.5	29.57	751.1	55	12.8	86	s.	6	2.7			10 s		s.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.52	749.8	29.99	761.7	70.3	21.3	94	calm	0	0			10 n			0.40	10.2	light rain	J. B. Campbell.
Smithville North Carolina	30.04	763.0	30.08	764.0	75.0	23.9	88	w.	9	4.0		1 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.80	706.1	29.84	757.9	52	11.1	74	ne.	1	0.4			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.26	743.2	29.92	760.0	60	15.6	90	n.	4	1.8			10 s		n.	0.19	4.8	cloudy	T. B. Jennings.
Starkville, Miss.																			C. Dill.
Stockton, Fort, Texas	27.02	686.3	29.98	761.5	66	18.9	90	se.	10	4.5		0	0			0.01	0.3	clear	Louis Dorman.
Thomas, Camp, Arizona					57	13.9	33	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.26	743.2	29.94	760.5	51	10.6	86	ne.	8	3.6			10 s		e.	0.41	10.4	threatening	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.19	741.4	29.21	741.9	43	6.1	68	sw.	12	5.4			10 s			0.70	17.8	threatening	Samuel Applegate.
Verde, Fort, Arizona					59	15.0	50	n.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.84	757.9	30.09	764.3	72.5	22.5	87	s.	5	2.2		1 c	0	w		0.06	1.5	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.87	758.7	29.98	761.5	64.4	18.0	86	w.	4	1.8			10 s		w.	0.01	0.3	threatening	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	29.90	759.4	41.5	5.3	92	e.	4	1.8		0	fg.			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	71.0	21.7	90	sw.	1	0.4		1 c	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.80	731.5	30.09	764.3	37.3	2.9	61	e.	4	1.8			10 s			0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.69	754.1	29.83	757.7	71.3	21.8	82	nw.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		n.			2		8 n		n.	0.15	3.8	drizzling	W. H. Jackson.
Bogota, U. S. C.	22.05	560.2			55.0	12.8	59	s.	4	2			8s;ks;n		nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2	78.0	25.6	93	calm	0	0		2 cs	3 s		e.	0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	79	26.1	82	se.			2	0	4 k		e.	0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.38	740.2	29.94	760.5	76	24.4	89	calm			0		10 ks		calm	1.25	31.5	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					76	24.4	90	ne.			1	0	0			0	0	clear	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
Fort Factory, B. A.	29.78	756.4	29.85	758.2	14.5	— 9.7	100	n.	12	5.4			10 n		n.	0.01	0.3	snowing	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 40° 37′, E. 22° 57′	29.83	757.7	75	23.9	72	sse.			2		1	sse.				sm'h		blue sky.
H. M. S. Coquette, N. 37° 06′, E. 11° 00′	29.72	754.9	75	23.9		ese.			1		4	calm				sm'h		d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.08	764.0	77	25.0	77	ese.			3		7	ese.						d. clouds.
H.P. M. S. Duoro, St. Thomas, W. I.	29.97	761.2	82.4	28.0	77	s.			3		10		sw.	6 h'r	6 h'r	4	sw.	overcast
H. M. S. Himalaya, N. 37° 26′, E. 9° 21′			76	24.4	64	e.			1		1	ene.				1	sse.	blue sky.
H. M. S. Iris, off Port Said, Egypt	30.00	762.0	80	26.7	82	nnw.			3		3							d. clouds.
H. M. S. Tenedos, Hall Bay. N. F	30.17	766.3	44	6.7	84	ssw.			1		6	calm						d. clouds.
H. M. S. Tyne, N. 3° 12′, W. 160° 40′			78	25.6	73	s.			3		9					2	ssw.	misty.
U. S. Navy Yard, Portsmouth, N. H*	29.81	757.2	52	11.1	86	ne.	12	5.4			10		ne.	0.80	20.3			raining.
U. S. S. Alliance, Eastport, Maine	29.91	759.7	51	10.6	93	se.			2		10			h'vy	h'vy	sm'h		overcast.
U. S. S. Galena, Hampton Roads, Va	29.92	760.0	68	20.0	95	nnw.			2		2			o	o	sm'h		fair.
U. S. S. Jamestown, N. 21° 26′, W. 37° 35′	30.10	764.5	79	26.1	86	e.			3		2					sm'h	e.	clear.
U. S. S. Kearsarge, N. 36° 34′ W. 7° 13′	30.02	762.5	66	18.9	68	wnw.			3		2		calm			sm'h		fair.
U. S. S. Lancaster, Cadiz, Spain	29.96	761.0	62	16.7	88	nw.			5		0					sm'h		clear
U. S. S. Portsmouth, Newport, R. I	29.89	759.2	64	17.8	?	sw.			4		10		sw.					misty.
U. S. S. Powhatan, Sydney, C.B	30.19	766.8	42	5.6	91	calm			0		10							misty.
U.S. S. Quinnebaug, Leghorn, Italy	29,74?	755.4?	70	21.1	95	sw.			4		5		sw.			sm'h		fair.
U. S. S. Saratoga, Bristol, R. I	29.91	759.7	65	18.3	100	sw.			2-3		10		sw.	light	light	sm'h		overcast.
U. S. S. Swatara, Halifax, N.S	30.06	763.5	55	12.8	81	sse.			4		10		calm	mod.	mod.	r'gh		misty.
U. S. S. Vandalia, Boston, Mass*†	29.82	757.4	63	17.2	94	sw.			1		10							cloudy.
U. S. S. Yantic, New York, N. Y	29.90	759.4	65	18.3	94	sw.			1		10							cloudy.
S. S. British Prince, N. 40° 07′, W. 70° 31′ *†.	29.86	758.4	67	19.4		sw.			4		9			o	o			overcast.
S. S. Lord Clive, N. 50° 23′. W. 22° 26′	30.32	770.1				n			4		6		n.	o	o	sli't	nw.	fine.
S. S. Ohio, Philadelphia, Pa			65	18.3	94	wsw.			2		10			3 h'r	3 h'r			overcast.
S. S. Circassian, N. 55° 20′. W. 9° 32′	29.96	761.0	52	11.1	79	nne.			6		5		n.			4	nne.	d. clouds.
S. S. Grecian, N. 47° 24′ W. 70° 17′	29.99	761.7	40	4.4	100	e.			3		10			½ h'r	½ h'r			drizzling.
S. S. Nova Scotian, N. 51° 16′, W. 27° 57′	30.39	771.9	57	13.9		ese.			3		10		ese.			long	wnw.	cloudy
S. S. Prussian, N. 54° 13′, W. 22° 57′	30.36	771.1	56	13.3		n.			3		10		n.	o	o	mod.	nw.	cloudy.
S. S. Scandinavian, N. 42° 51′, W. 62° 36′	30.11	764.8	56	13.3		ese.			2		0					light	ese.	misty.
S. S. Jason, N. 48° 55′, W. 36° 33′			58.5	14.7		n.			4-5		9 n					3	n.	foggy.
S. S. Alvo, N. 15° 45′, W. 81° 09′*	29.92	760.0	80	26.7		ne.			5		10		nne.	2 h'r	2 h'r	long	nne.	overcast.
S. S. Avilla, Kingston, Jamaica. W. I*†	30.03	762.7	80	26.7		calm			0		0			o	o	sm'h		
S. S. Assyria, N 40° 09′, W. 54° 21′	30.13	765.3	76	24.4	86	sse.			3		4		sse.	o	o	sm'h		fine.
S. S. Devonia, N. 53° 50′, W. 22° 35′ *†	30.37	771.4	54	12.2		nne.			2		8		ne.			mod.	ne.	fine.
S. S. Dorian, Denia, Spain	29.70	754.4				var.					4			o	o	sm'h		fine.
S. S. Carroll, N. 43° 15′, W. 65° 50′			55	12.8	100	se.			3		10		se.	o	o	short	se.	cloudy.
S. S. Cephalonia, N. 42° 28′, W. 65° 01′	29.98	761.5	59	15.0	94	sse.			4		6		s.	3 h'r	3 h'r	sli't.	s.	fair.
S. S. Gallia, N. 42° 12′, W. 60° 33′			66	18.9	94	s.			6		10			sh'rs	sh'rs	cf'd		gloomy.
S. S. France, N. 42° 28′, W. 48° 36′†	30.25	768.3	57.2	14		ne.			2		8		ne.	o	o	sm'h	se.	
S. S. Wisconsin, N. 44° 30′, W. 55° 49′*	30.22	767.6	58	14.4		se.			2		3		sw.	o	o	sm'h		fair.
S. S. Wyoming, N. 48° 00′ W. 41° 48′	30.23	767.8	55	12.8		w.			2		0			o	o	mod.	s.	clear.
S. S. Bohemia, Hamburg, Germany†	29.53	750.0				w.			4		5		w.	2 h'r	2 h'r			hazy.
S. S. Frisia, N. 43° 20′, W. 56° 45′	30.25	768.3				e.			1		1		e.	o	o	short	se.	fair.
S. S. Gellert, Hamburg, Germany			62	16.7	77	se.			4		4		s.	5 h'r	5 h'r			fair.
S. S. Rugia, New York, N. Y	29.89	759.2																
S. S. Silesia, N. 49° 30′, W. 29° 08′	30.37	771.4	58	14.4		se.			5		10		se.	o	o	sm'h	se.	cloudy.
S. S. Westphalia, English Channel	29.49	749.0	54	12.2	87	n.			6-5		6		nw.	o	o	r'gh	w.	cloudy
S. S. Rhaetia, N. 50° 21′, W. 22° 20′ *	30.29	769.3	56	13.3		nnw.			4		8		n.	o	o	mod	wnw.	cloudy.
S. S. City of Paris, off Salter's Light, Ireland*	29.84	757.9				nnw.			6		4		nnw.	2 h'r	2 h'r			fine.
S. S. Hevelius, Antwerp, Belgium*†	29.36	745.7	58	14.4		sse.			3		10		sse.	o	o			cloudy.
S. S. Sirius, N. 0° 50′, W. 29° 22′	30.01	762.2				se.			4		3		se.	o	o	mod	se.	clear.
S. S. Rio Grande, N. 27° 55′, W. 80° 10′†	30.16	766.1	83	28.3		ene.			1		2		se.	o	o	sm'h		clear.
S. S. Chalmette, Algiers, La†	30.16	766.1	80	26.7		calm			0					o	o			foggy.
S. S. New York, N. 28° 40′, W. 80° 15′*†	30.20	767.1	82	27.8		calm			0		2			o	o	sm'h		clear.
S. S. Alleghany, Vineyard Sound, Mass†	29.93	760.2	62	16.7		w.			2		8		ne.	o	o			squally.
S. S. Archimede, N. 34° 37′, W. 20° 52′†	30.27	768.8	74	23.3		nnw.			4		5		nnw.	1 h'r	1 h'r	mod	nw.	fair.
S. S. City of Merida, N. 19° 50,′ W. 90° 45′ *†	30.02	762.5	84	28.9		e.			1		1		e.	o	o	light	ne.	fine.
S. S. City of Washington, N. 24° 35, W. 80° 37′*†	30.10	764.5	82	27.8		ne.			4		2		ne.	o	o	light	n.	fine.
S. S. Clenfuegos, N. 26° 34′, W. 76° 44′*	30.07	763.8	84	28.9		e.			1		1			2 h'r	2 h'r	gentle	e.	fine.
S. S. Canada, N. 46° 32′, W. 39° 29′			63	17.2		nnw.			4		10		calm	5 h'r	5 h'r	mod.	nw.	overcast.
S. S. Denmark, N. 41° 18′ W. 59° 45′†	30.21	767.3	66	18.9		ese.			3		7		e.	o	o	sm'h		cloudy.
S. S. Egypt, N. 50° 56′ W. 19° 42′			56	13.3		nne.			5		5		nne.	o	o	mod.	nne.	fair.
S. S. Helvetia, N. 40° 39′ W. 69° 40′	29.96	761.0	65	18.3	100	ssw.			3		8		ssw.	3 h'r	3 h'r	mod.	ssw.	cloudy.
S. S. The Queen, N. 40° 28′, W. 70° 22′			62	16.7		sw.			3		5		sw.	o	o	mod.	sw.	hazy.
S. S. America, N. 49° 52′ W. 15° 30′ *	30.07	763.8	59.0	15.0	82	nne.			6		5		nne.	2 h'r	2 h'r	light	n.	fair.
S. S. Elbe, N. 47° 00′, W. 44° 06′	30.25	769.1	53.6	12.0	94	s.			2		0			o	o	sm'h	se.	clear.
S. S. Habsburg, N. 50° 04′, W. 13° 46′	30.01	762.2				nne.			6		8		nne.	o	o	long	nne.	cloudy.
S. S. Hohenstaufen, St. Vincent, Cape Verde Islands	30.01	762.2	79.7	26.5	96	ne.			5		3		ne.	o	o	mod.	ne.	clear.
S. S. Main, N. 40° 40′, W. 67° 16′	29.92	760.0	66.2	19.0		s.			4		3?		s.	2 h'r	2 h'r	mod.	s.	cloudy.?
S. S. Oder, N. 48° 54′, W. 18° 31′	30.23	767.8	57.2	14.0		n.			5		5		n			long	nnw.	showery.
S. S. Salier, N. 48° 45′, W. 29° 56′*	30.27	768.8	59.0	15.0	78	e.			6		10		nw.	4 h'r	4 h'r	high	ese.	raining.
S. S. Strassburg, N. 45° 00′ W. 52° 29′	30.21	767.3	61.0	16.1	65	nne.			2		2			o	o	2	w	clear.
S. S. City of Augusta, N. 37° 25′, W. 74° 41′†	30.02	762.5				s.			4		10?		s.	o	o			clear.?
S. S. Muriel, Saint Thomas, W. I	30.01	762.2	84	28.9		ene.			3		0			o	o	sm'h		clear.
S. S. Orinoco, N. 37° 44′, W. 70° 26′			76	24.4		ssw.			2		9			½ h'r	½ h'r	light	s.	hazy.
S. S. Belgenland, N. 46° 30′, W. 48° 15†.	30.32?	770.1?				sw.			3		10			o	o	long	nw.	overcast.
S. S. Pennland, New York, N. Y			65	18.3	89	s.			3				s.	4 h'r	4 h'r			cloudy.
S. S. Switzerland, N. 49° 56′, W. 4° 32′ *†	29.39	746.5				nnw.			6		8		w.	o	o	r'gh	nnw.	cloudy.
S. S. Vaderland, Antwerp, Belgium			53	11.7		se.			4		4		e.	o	o			fair.
S.S. Waesland, Antwerp, Belgium	29.37	746.0	56	13.3		e.			3		10		ssw.	o	o			overcast.
S. S. P. Caland, N. 45° 00′ W. 51° 00′	30.26	768.6	57.2	14	74	ne.			4		8		nne.			3	n.	cloudy.
S. S. W. A. Scholten, N. 50° 08′, W. 34° 04′	30.17	766.3	55.4	13.0	94	ese.			5		8		ese.	5 h'r	5 h'r	4	e.	raining.
S. S. Caracas, N. 35° 30′, W. 72° 15′ *†	30.10	764.5	77.5	25.3	82	wsw.			5		3		w.	o	o	small	nw.	clear.
S. S. Valencia, N. 12° 25′, W. 69° 17′ †	29.99	761.7	84	28.9	83	e			4		3		e.	o	o	mod.	ene.	clear.
S. S. State of Nevada, Larne, Ireland†	29.90	759.4	54	12.2		n.			4		1?		n.	2 h'r	2 h'r			cloudy?
S. S. State of Nebraska, N. 44° 51′, W. 54° 30′ *†	30.18	766.6	53	11.7		ene.			2		3			o	o	sm'h		clear.
S. S. Thingvalla, N. 49° 34′, W. 47° 43′†	30.19	766.8	55.4	13.0		w.			2		2		w.	o	o	mod.	w.	clear.
S. S. Romano, N. 42° 30′, W. 62° 47′			58	14.4		s.			3		3		sw.			sm'h		light haze.
S. S. Salerno, Grimsby roads, Eng*†	29.20	741.7	58	14.4		ne.			9		7		ne.	2.0	50.8	sm'h	w.	raining.
S. S. Oregon, N. 49° 15′, W. 65° 00′	29.99	761.7	39	3.9		se.			1		6		se.					
S. S. Lake Manitoba, Quebec, Quebec	30.02	762.5	50	10.0		ssw.			4		7		sw.			sm'h		showery.
S. S. Daniel Stehmann, N. 49° 48′, W. 11° 15′			57	13.9		nnw.			5		6		nw.	1 h'r	1 h'r	h'vy	wnw.	rainy.
S. S. Britannic, N. 51° 20′ W. 7° 30′ †	29.84	757.9	57	13.9		n.			6		4		n.	o	o	high	nw.	fair.
S. S. Celtic, N. 40° 28′, W. 73° 08′†	29.92	760.0	69	20.6	85	s.			4		10		s.	o	o	sm'h		overcast.
S. S. Germanic, N 51° 02′, W. 21° 58′ *†	30.40	772.1	56	13.3		nne.			5		8		n.	1 h'r	1 h'r	long	nnw.	cloudy.
S. S. Republic, N. 42° 32′ W. 54° 26′*†	30.18	766.6	63	17.2		e.			5		8		ne.	2 h'r	2 h'r	light	ne.	d. clouds.
S. S. Assyrian Monarch, N. 49° 03′, W. 11° 29′						n.			6		3		n.	4 h'r	4 h'r	h'vy	wnw.	clear.
Bk. Arda, N. 40° 34′. W. 18° 40′†	30.26	768.6				ne.			3		3		ne.	o	o	mod.	ne.	clear.
Bk. Alpheus Marshall, N. 16° 55′, W 25° 35′*†	30.01	762.2	80	26.7	96	ene.			5		8		ese.	o	o			cloudy.
Bk. Ariadne, N. 44° 48′, W. 50° 10′	30.30	769.6	56	13.3	100	calm			0		fg.			o	o	mod.	wnw.	foggy.
Bg. Abbie Clifford, N. 41° 50′, W. 69° 05′†	29.94	760.5	60	15.6		s.			4		10			o	o	sm'h		overcast.
Schr. Arthur Burton, Lincolnville, Maine†	29.87	758.7				w.			1		10		w.	8 h'r	8 h'r	sm'h		stormy.
Schr. Abbie H. Gheen, Cape Ann, Mass †.	29.90	759.4	58	14.4		ssw.			4									stormy.
S. S. Antonio Lopez, Santander, Spain	29.82	757.4	55.5	13.1	97	wsw.			3		10			15 h'r	15 h'r	long	nw.	heavy rain.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Adelaide, N. 6° 58′, W. 30° 45′ *†	30.08	764.0				ssw.			1		4		s.	12 h'r	12 h'r	light	s.	fair.
Bg. Belle of the Bay, N. 29° 00′, W. 93° 00′†	30.11	764.8				s.			2		3		sw.	0	0	sm'h	s.	clear.
S. S. Cannonbury, N. 42° 18′, W. 70° 50′*†..	29.88	758.9				sw.			2		10		sw.	1 h'r	1 h'r	sm'h		heavy rain.
Bk. Ceylon, N. 25° 04′, W. 38° 53′†	30.10	764.5	82	27.8	87	ese.			4		2		se.	0	0	mod.	e.	clear
Schr. C. R. Flint, N. 17° 59′, W. 56° 08′ †	30.03	762.7	84	28.9		ese.			3		2		ese.	0	0	mod.	se.	clear.
Bk. Don Justo, N. 44° 49′, W. 58° 00′						se.			1		2		s.	0	0	mod.	wsw.	hazy.
Bk. Childwall, N. 7° 08′, W. 22° 20′			84	28.9	75	nw.			3		8		nw.	0	0	sm'h		cloudy.
Bkt. David A. Preston, N. 41° 07′, W. 69° 55′						s.			3					0	0	sm'h		smoky.
Bk. Diamant, N. 42° 04′, W. 45° 10′	30.11?	764.8?	71.6	22.0	92	ene.			5	5 c			ene.	0	0	3	ene.	fair.
S. Dynomine, N. 33° 20′, W. 18° 24′	30.31?	769.9?	72	22.2	85	ne.			4		6			0	0	mod.	nne.	d. clouds.
S. David Stewart, N. 32° 04′, W. 69° 30′			78	25.6		wsw.			4		5		w.	0	0	mod.	wsw.	
S. E. J. Spicer, Ostend, Belgium	29.29	744.0	52	11.1	93	e.			5		10		sw;s.	rain	rain			cloudy
Schr. Edith R. Seward, N. 36° 58′, W. 76° 20′ †	30.04	763.0	73	22.8		wsw.			2		7		wsw.	0	0			cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.11	764.8	85	29.4		calm			0		0			0	0			clear.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	29.95	760.7	64	17.8		wsw.			4		10		sw.	0	0	sm'h		cloudy.
S. Gatherer, N. 32° 45′, W. 36° 48′*	30.18	766.6	79	26.1	78	ese.			2		2		e.	¼ h'r	¼ h'r	chop	ene.	clear.
Bg. George, N. 18° 35′, W. 67° 30′*†	30.01	762.2	82	27.8		ene.			2		2		e.	sh'rs	sh'rs	mod.	ene.	fair.
Bk. Galeon, N. 24° 18′, W. 29° 12′†	30.15	765.8	77	25.0		e.			3		2		e.	0	0		nne.	blue sky.
Bk. Grey Eagle, N. 6° 25′, W. 28° 57′						sw.			1		5			1 h'r	1 h'r	sm'h		fair.
S. Hedwig, N. 22° 25′, W. 30° 58′	30.16	766.1	81.0	27.2	86	se.			2		4		se.	1 h'r	1 h'r	3	ne.	
Bk. Johanne, N. 45° 00′, W. 58° 35′*†	30.20	767.1	59	15.0		sse.			4		8		s.	0	0	mod.	s;se.	foggy.
Schr. Jennie N. Huddell, N. 33° 35′, W. 77° 50′†	30.12	765.0	81	27.2	91	sw.			5		2		s.	0	0	short	sw.	clear.
Bk. John H. Pearson, N. 36° 41′, W. 1° 58′						wsw.			5				wsw.			r'gh	wsw.	clear
Schr. Jas. Slater, N. 20° 33′, W. 58° 42′†	30.08	764.0				ne.			2		0			½h'r	½h'r	mod.	ese.	
Bg. Josefa, N. 46° 15′, W. 47° 12′ †	30.23	767.8				calm			0		0			0	0	long	w.	foggy.
Bkt. Kryolith, N. 44° 56′, W. 57° 11′ *†	30.22	767.6				ene.			2		5		w.			mod.	se.	fair.
Bk. Lady Hincks, N. 22° 32′, W. 48° 55′ *†	30.10	764.5							1-3					rain	rain			fair.
Bg. L. & W. Armstrong, N. 30° 25′, W. 69° 48′ *†	30.08	764.0				wsw.			2		3		sw.	0	0	sm'h	ene.	fine.
S. S. Madrid, near Taganrog, Russia †..	29.76	755.9	63	17.2	94	ese.			3		10		s.	6 h'r	6 h'r			raining.
Bk. Matilda C. Smith, N. 39° 07′, W. 60° 55′*†..	30.18	766.6				se.			2		5		s.	0	0	mod.	w.	threatening.
Bk. Orpheus, N. 39° 02′, W. 62° 45′			76	24.4		w.			3		4 k		wnw.	3 h'r	3 h'r			fair.
Schr. Rollin Sanford, Milton, Fla.†	30.12	765.0				calm			0		fg.			0	0			foggy.
Bg. Rising Sun, N. 36° 33′, W. 66° 10′†	30.10	764.5	75	23.9		s.			5		10		ssw.	0	0	mod.	s	cloudy.
Bk. Rosalie, N. 34° 33′, W. 18° 56′*†	30.23	767.8				ne.			5		2		ne.	3 h'r	3 h'r	light	ne.	clear.
Schr. S. B. Hubbard, N. 35° 15′, W. 74° 20′†	30.16	766.1	72	22.2		w.			5					0	0	long	sw.	fine.
Bk. Saga, N. 55° 38′, E. 14° 57′			60	15.6		var.			5		9?		var.	7 h'r	7 h'r	sm'h	sw.	clear.?
S. Salisbury, N. 40° 04′, W. 54° 00′	30.12	765.1	76.5	24.7	82	ssw.			2		4		sse.	0	0	mod.	se.	fair.
Bgt. Sunlight, N. 30° 10′, W. 71° 55′*†	30.12	765.0				w.			3		3		w.	0	0	mod.	se.	clear.
Bk. Samuel B. Hale, N. 34° 35′, W. 53° 10′*†	30.10	764.5				ne.			5		10		ne.			short	e.	rainy
Bk. Sunbeam, N. 40° 05′, W. 59° 54′ †	30.14	765.5	76	24.4	82	se.			5		5		s.	1 h'r	1 h'r	sm'h		fair.
Bk. Scud, N. 27° 58′, W. 58° 46′*†	30.10	764.5	84	28.9		nne.			4		5		ne.	0	0	light	e.	fine.
Bk. St. Lawrence, N. 19° 40′, W. 56° 43′*†	30.00	762.0				se.			4				se.	0	0	light	s.	clear.
S. S. Tower Hill, N. 46° 25′, W. 44° 09′*†	30.20	767.1				sw.			3		2		s.			sm'h		fair.
Schr. Viola Reppard, Brunswick, Ga†	30.10	764.5	81	27.2		sw.			1		2		sw.	0	0			clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.03	762.7	76.5	24.7	88	wnw.			2		5	ssw.						d. clouds.
H. M. S. Opal, Ascension Island, Africa	30.05	763.3	74	23.3	87	e.			3		6	ese.						d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	29.97	761.2	57	13.9	94	ne.			4		10							drizzling.
H. P. M S. Rainha de Portugal, Landana, L. Guinea	29.97	761.2	77.4	25.2	77	ssw.			3		9		ssw.	0	0	2		gloomy.
U. S. S. Brooklyn, S. 37° 58′, W. 52° 15′*	30.11	764.8	59	15.0	88	ne.	23	10.3			10		nne.	0.04	1.0	r'gh	ne.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay *	29.91	759.7	58	14.4	94	ne.			4		10		ne.			sm'h		
S. S. Peneirs, S. 19° 50′, W. 38° 05′	30.11	764.8	75.2	24 0	86	ssw.			5	cs	6 kn			4.65	118.1	5	sw.	showery.
Bk. Aureola, S. 8° 04′, W. 34° 50′†	29.95	760.7	94	34.4		sse.			2		4		sse.	1 h'r	1 h'r	mod.	se.	clear
Bk. E. L. Pettingill, S. 31° 15′, W. 41° 00′*†	30.35	770.9	64	17.8		s.			2		0			0	0	long	sw.	clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.16	766.1	59	15.0		ne.			2		6		s.	1 h'r	1 h'r			fair.
S. S. Menedoza, S. 37° 14′, W. 52° 50′†	30.10	764.5				nne.			4		10		nne.	0	0	r'gh	ne.	overcast.
Bk. Pilgrim, S. 24° 20′, E. 2° 52′*†	30.30	769.6				e.			4		7		e.	0	0	mod.	e.	cloudy
Bgt. Willie, S 21° 38′, W. 40° 00′*†	30.14	765 5	77	25.0		s.			4		3		s.	2 h'r	2 h'r	long	s.	fair.
Bk. Mohican, S. 27° 40′, W. 27° 35′	29.91	759.7	69	20.5		s.			2		10		sw.	10 h'r	10 h'r	h'vy	wsw.	cloudy.
S. S. Olbers, S. 2° 25′, W. 38° 14′	30.08	764.0	78	25.6	95	ese.			6		7		se.	0	0	sll't	ese.	fair.
H. M. S. Boadicea, Saldanha Bay, Cape Colony	30.37	771.4	59	15.0	65	s.			4							1	ssw.	blue sky.
Bg. John Wesley, Natal, Rio Granda do Norte, Brazil*†	29.96	761.0	82	27.8		ese.			5		2			0	0			hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 40° 40′, E. 142° 00′	30.05	763.3	69	20.6	95	s.			3		10	se.				3	se.	showery.
H. M. S. Cleopatra, N. 33° 50′, E. 126° 55′	29.93	760.2	70	21.1	85	ene.			5		9	s.				5	n.	misty.
H. M. S. Flying Fish, N. 37° 35′, E. 121° 29′	30.17	766.3	61	16.1	71	n.			2		0					3	n.	blue sky
H. M. S. Magpie, N. 5° 16′, E. 115° 15′	29.27	743.4	81.9	27.7	83	w.			2		8							d. clouds.
H. M. S. Zephyr, N. 37° 48′, E. 130° 29′	29.98	761.5	70	21.1	100	sse.			4		8	sse.						d. clouds.
H. P. M. S. Tamega, Canton, China	29.93	760.1	80.6	27.0	77	n.			3		0			0	0			blue sky
U. S. Naval Hospital, Yokohama, Japan	30.19?	766.8?	67	19.4	95	n.			1		10		ne.	sll't	sll't			raining.
U. S. S. Essex, Roze Island, Corea	30.03	762.7	63	17.2	67	nnw.			3		2					sm'h	n.	fair.
U. S. S. Hartford, Punta Arenas, Costa Rica *	29.86	758.4	78	25.6	95	e.			0-1		5			0	0	sm'h		fair.
U. S. S. Juniata, N. 12° 30′, E. 111° 47′	29.86	758.4	84	28.9	100	nnw.			3		7		nnw.	sll't	sll't	long	n.	cloudy.
U. S. S. Monocacy, Roze Island, Corea	30.04	763.0	63	17.2	57	nnw.			4		0					sm'h		clear.
U. S. S. Palos, Canton, China	29.94	760.5	79	26.1	78	nne.			1		2		calm					fair.
U. S. S. Pensacola, N. 25° 40′, E. 150° 40′*..	29.96	761.0	80	26.7	91	ne.			4		2		ne.	mod.	mod.	mod.	ne.	clear.
U. S. S. Richmond, Yokohama, Japan	30.10	764.5	69	20.6	95	n.			3		10		n.					raining.
S. S. Oceanic, N. 38° 41′, W. 132° 43′	29.86	758.4	64	17.8	83	sw.			4		7		w.	0	0	4	sw.	cloudy.
S. S. Columbia, N. 43° 00′. W. 124° 48′ †	29.69	754.1	58	14.4	88	sse.			5		9		sse			h'vy	wsw.	squally.
S. S. Oregon, San Francisco, Cal.†	29.95	760 7	62	16.7	88	sw.			2		10		sw.					raining.
S. S. Ancon, N. 34° 42′, W. 120° 13′†	29.94	760.5	63	17.2	89	wsw.			4		0					mod.	wsw.	clear.
S. S. State of California, San Francisco, Cal.†	29.95	760.7	58	14.4		s.			2		10		s.					cloudy.
S. S. Queen of the Pacific, Portland, Oregon†	29.75	755.6	54	12.2		ese.			1		9			rain	rain			overcast.
S. S. Victoria, Portland, Oregon †	29.72	754.9	56	13.3	81	calm			0		10							foggy.
S. S City of New York, N. 21° 40′, W. 155° 18′†	30.09	764.3	77	25.0	82	s.			1		5		s.			mod.	n.	cloudy.
S. S. City of Pekin, N. 23° 57′, E. 118° 16′ †	29.92	760.0	79	26.1	86	ne.			3		5		ne.	0	0	sm'h		fair.
S. S. City of Tokio, N. 30° 12′, E. 131° 23′†	29.98	761.5	78	25.6	91	ne.			5		10		ne.	6 h'r	6 h'r	mod.	ne.	overcast.
S.S. City of Rio de Janeiro, N. 37° 20′, E. 171° 33′ †	29.89	759.2	74	23.3	86	s.			6		7		s.	rain	rain	large	s.	squally.
S. S. Granada, Panama, Panama†	29.90	759.4	77	25.0	95	n.			2		7		nw.	4 h'r	4 h'r			rainy.
S. S. San Blas, La Libertad, San Salvator†	29.95	760.7	80	26.7		sse.			3		10		s.	rain	rain	small	se.	cloudy.
S. S. Zealandia, N. 34° 17′, W. 131° 42′†	29.90	759.4	70	21.1	90	wsw.			4		8		sw.			r'gh	sw.	cloudy.
S. Storm King, N. 10° 25′, W. 118° 20 *†	29.90	759.4				wsw.			6		10?		wsw.	6 h'r	6 h'r	high	var.	clear.?
S St. David, N. 38° 08′, W. 123° 11′ *†	30.15	765.8	62	16.7	94	calm			0		fg.			2 h'r	2 h'r	h'vy	sw.	foggy.
S. E. B. Sutton, N. 14° 50′, W. 120° 00′*†	29.91	759.7	79.5	26.4	91	nne.			4		8		ene.	0	0	sm'h	var.	hazy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.96	761.0	79.3	26.3	85	se.			2		7					sm'h		d. clouds.
H. M. S. Mutine, Payta Bay, Peru	30.03	762.7	64	17.8		sse.			1		10							overcast
U. S. S. Iroquois, Callao, Peru	30.06	763.5	61	16 1	88	calm			0		10							cloudy.
U. S. S. Lackawanna, S. 26° 06′, W. 71° 24′*	30.01	762.2	57	13.9	87	sse.			3		10		se.			mod.	s.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	61	16.1	82	sse.			1		10		se.			mod.	w.	cloudy.
U. S. S. Wachusetts, Mollendo, Peru*	30.01	762.2	61	16.1	88	sse.			2		10		calm			long	se.	overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
S. S. City of Sydney, Sydney, N. S. W *†	30.35	770.9	55	12.8	74	nne.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. Armenia, S. 0° 33′, W 122° 32′*	29.89	759.2	74	23.3	90	ese.	.....	.....	2	.....	5	.....	.....	0	0	sm'h	sse.	hazy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.06	763.5	67	19.4	.....	se.	.....	.....	3	.....	.....	.....	.....	0	0	long	se.	dense fog.
S. David Crockett, S. 55° 51′. W. 85° 21′*	29.57	751.1	40.5	4.7	92	wsw.	.....	.....	2	.....	10	.....	.....	20 h'r	20 h'r	mod.	ne.	raining.
Bk Godeffroy, S. 58° 35′, W. 76° 16′	29.73	755.1	.....	.....	.....	e.	.....	.....	3	.....	5	.....	n.	0	0	sm'h	w.	fair.
S. Sovereign of the Seas, S. 19° 18′, W. 89° 50′*†	30.24	768.1	67	19.4	90	ese.	.....	.....	2	.....	9	.....	ese.	0	0	long	sw.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Dryad, S. 19° 55′, E. 53° 00′	30.23	767.8	.....	.....	.....	ene.	.....	.....	3	.....	6	ene.	.....	.....	.....	2	ene.	d. clouds
H. M. S. Euryalus, Zanzibar, Zanzibar	30.00	762.0	79	26.1	82	ssw.	.....	.....	2	.....	4	sse.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	79	26.1	91	se	.....	.....	2	.....	2	sse.	.....	.....	.....	2	ese.	blue sky.
H. M. S. Woodlark, Bassorah, Turkey	29.89	759.2	94.5	34.7	37	nw.	.....	.....	3–5	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Galatia, Calcutta, India†	29.79	756.7	83	28.3	88	ne.	.....	.....	1	.....	8	.....	ese.	0	0	.....	.....	dull.
S. S. Benledi, N. 23° 30′, E. 37° —′*	29.86	758.4	86.5	30.3	78	nnw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Great Surgeon, S. 39° 23′. E. 27° 02′*†	30.36	771.1	60	15.6	.....	ssw.	.....	.....	6	.....	8	.....	ssw.	2 h'r	2 h'r	h'vy	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

SEPTEMBER, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for September, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.03	762.8	78.6	25.9	78.0	5	.....	.....	.....	8	4	13	.....	.....	.....	.....	0	inap.	inap.
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	30.03	762.7	78.6	25.9	57.9	6	3	13	.....	.....	.....	1	6	1	.....	.....	2	0.28	7.2
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.01	762.2	79.3	26.3	67.3	6	10	2	.....	2	.....	1	9	.....	.....	.....	2	1.07	27.2
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.03	762.8	80.2	26.8	51.7	6	7	3	1	1	1	8	3	.....	.....	.....	2	0.44	11.2
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.09	764.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.05	763.2	78.4	25.8	48.5	6	4	5	5	7	3	.....	.....	.....	.....	.....	2	0.35	9.0
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	82.6	28.1	15.3	11	15	1	1	.....	.....	1	1	.....	.....	.....	2	0	0
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2549	777	.....	.....	30.05	763.3	86.7	30.4	30.8	4	4	2	.....	3	4	9	4	.....	.....	.....	1	inap.	inap.
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.02	762.4	90.5	32.5	31.9	.....	1	9	1	.....	6	8	.....	5	.....	.....	1	0.19	4.8
AUSTRALIAN.																										
Adelaide	S. 34 57	E. 138 35	9.22 p.m.	140	42	.....	.....	30.14	765.5	51.0	10.6	75.6	4	3	3	5	6	1	1	3	4	.....	.....	4	1.86	47.2
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.90	759.4	29.99	761.7	51.4	10.8	79	4	2	2	6	6	4	2	4	.....	.....	.....	5	1.65	41.9
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.40	746.8	29.94	760.4	66.9	19.4	64.5	.....	.....	.....	6	4	8	5	7	.....	.....	.....	6	3.52	89.4
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.16	740.7	29.91	759.7	63.3	17.4	65.1	1	3	7	8	1	1	6	3	.....	.....	.....	7	5.60	142.3
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.06	738.0	29.91	759.7	58.5	14.7	79.7	20	1	.....	.....	6	.....	.....	.....	6	.....	.....	8	4.13	105.0
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.53	724.6	29.91	759.6	70.2	21.2	54	1	5	.....	1	11	8	3	1	.....	.....	.....	5	3.67	93.2
Kremsmunster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.59	726.2	29.91	759.6	62.1	16.7	76.1	1	1	7	3	.....	.....	5	8	5	.....	.....	6	2.79	70.9
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.97	735.8	29.93	760.3	63.3	17.4	66.1	2	1	3	4	6	9	3	2	.....	.....	.....	6	3.54	89.8
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.81	757.2	29.91	759.8	73.4	23.0	62.6	1	3	4	8	2	5	3	3	1	.....	.....	4	1.82	46.2
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.44	747.8	29.90	759.4	70.7	21.5	66	3	.....	6	2	12	.....	7	.....	.....	.....	.....	5	1.61	40.9
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.65	753.2	29.91	759.8	67.6	19.8	67.7	6	4	1	1	7	5	.....	.....	6	.....	.....	7	3.26	82.8
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.80	758.5	29.96	761.0	72.0	22.2	56.8	3	6	5	6	1	1	3	5	.....	.....	.....	5	3.81	96.8
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.25	743.0	29.96	760.9	64.0	17.8	67.1	2	7	6	1	2	8	3	.....	1	.....	.....	7	1.65	41.9
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.68	753.9	29.78	756.4	54.8	12.7	77.1	2	4	5	.....	2	7	4	6	.....	.....	.....	7	3.54	89.9
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.60	751.8	29.83	757.7	57.0	13.9	66.9	5	3	2	5	3	4	2	6	.....	.....	.....	6	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.78	756.4	59.4	15.2	73.9	1	5	8	4	.....	7	5	.....	.....	.....	.....	7	.....	.....
Bolton *a*	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.29	744.0	29.82	757.4	58.7	14.8	79.0	.....	2	2	7	6	3	3	6	.....	.....	.....	8	.....	.....
Bradford *e*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.40	746.7	29.79	756.7	58.4	14.7	80.5	.....	4	2	5	.....	4	.....	10	.....	.....	.....	8	6.23	158.2
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.95	760.7	29.98	761.5	84.0	28.9	70.2	.....	.....	1	.....	.....	13	3	13	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	29.7:	754.6	29.82	757.4	62.5	16.9	73.1	4	4	9	4	2	4	1	2	.....	.....	.....	6	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	160	49	29.65	753.1	29.82	757.4	62.2	16.8	72.1	.....	5	4	7	5	.....	2	3	4	.....	.....	7	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.64	752.8	29.86	758.4	59.4	15.2	75.7	1	5	7	5	3	5	4	.....	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.68	703.1	29.90	759.4	74.8	23.8	47.7	7	2	.....	1	1	2	14	3	.....	.....	.....	5	.....	.....
Freetown *o*	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.61	752.1	29.84	757.9	86.8	30.4	79.7	3	1	1	1	1	3	2	2	1	.....	.....	4	.....	.....
Galway *a*	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.77	756.1	29.80	756.9	57.3	14.1	83.4	1	5	5	4	2	4	4	4	.....	.....	.....	5	4.29	109.0
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.00	762.0	30.05	763.3	76.2	24.6	89.7	.....	10	9	1	.....	.....	9	1	.....	.....	.....	2	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.55	750.6	29.76	755.9	57.5	14.2	72.0	1	2	10	4	2	.....	1	10	.....	.....	.....	6	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.65	753.1	29.82	757.4	62.8	17.1	70.6	6	3	1	9	5	2	3	1	.....	.....	.....	6	1.77	45.0
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.59	751.6	29.89	759.2	60.9	16.1	81.2	2	3	3	11	2	3	4	2	.....	.....	.....	7	1.84	46.7
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.79	756.7	29.83	757.7	61.6	16.4	69.3	3	4	7	4	6	2	1	3	.....	.....	.....	6	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.53	750.0	29.78	756.4	57.3	14.1	73.8	7	4	3	10	2	2	1	1	.....	.....	.....	7	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.88	758.9	29.95	760.7	78.3	25.7	68.1	.....	11	3	3	.....	7	1	5	.....	.....	.....	4	0.49	12.4
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	29.96	761.0	30.01	762.2	82.2	27.9	77.7	.....	.....	.....	4	7	7	5	7	.....	.....	.....	6	.....	.....
Oscott *n*	N. 52 28	W. 1 55	0.00 m.	483	147	29.17	740.9	29.68	753.9	51.4	10.8	81.4	2*m*	.....	2	3	5	.....	.....	3	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.52	749.8	29.75	755.6	59.4	15.2	75.6	2	5	1	8	4	5	.....	3	2	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.77	756.1	29.84	757.9	61.1	16.2	81.5	3	3	4	7	4	3	3	.....	3	.....	.....	7	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.69	754.1	29.79	756.7	53.6	12.0	84.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemet'y *a*	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.83	757.7	29.89	759.2	81.0	27.2	55.0	4	.....	1	9	.....	.....	.....	13	2	.....	.....	4	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.52*f*	749.8*f*	29.77	756.1	61.1	16.2	76.6	3	1	2	6	10	1	.....	5	2	.....	.....	6	4.71	119.6
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.73	755.1	29.76	755.9	59.5	15.3	77.5	4	3	6	4	1	3	6	3	.....	.....	.....	6	3.54	89.9
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.80*a*	756.9*a*	58.4	14.7	75.5*a*	6*a*	1	4	4	4	2	2	6	.....	.....	.....	9	.....	.....
Strathfield	N. 51 17	W. 0 53	0.04 p.m.	197	60	.....	.....	.....	.....	62.4	16.9	75.8	3	5	4	9	2	4	1	1	1	.....	.....	6	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.81	757.2	29.90	759.4	63.8	17.7	75.2	.....	8	6	6	4	6	.....	.....	.....	.....	.....	7	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.80	756.9	29.82	757.4	59.0	15.0	80.2	3	7	3	5	1	8	3	.....	.....	.....	.....	8	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.62	752.3	30.01	762.2	77.1	25.1	63.5	1	7	7	6	4	1	3	1	.....	.....	.....	3	0.94	23.9
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	35	11	29.96	761.0	30.00	762.0	52.9	11.6	85.9*a*	1	1	2	10	4	.....	.....	.....	12	.....	.....	6	1.39	35.3
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.96	761.0	30.01	762.2	55.7	13.2	79.7	3	5	5	9	3	2	1	1	1	5793	9322	4	2.42	61.5
Chatham*	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.95	760.7	30.01	762.2	50.4	10.2	68.2	2	5	4	14	2	1	.....	2	.....	3900	6373	3	1.71	43.4
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.85	758.2	30.04	763.0	47.7	8.7	91.5	1	10	7	4	.....	1	6	1	.....	.....	.....	6	2.70	68.6
Dalhousie *a*	N. 48 04	W. 66 22	7.32 a.m.	45	14	29.92	760.0	29.97	761.2	50.3	10.2	.....	.....	3	17	1	1	.....	3	.....	4	.....	.....	.....	1.29	32.8
Edmonton	N. 53 14	W. 113 38	4.33 a.m.	2380?	725?	27.75	704.8	.....	.....	34.7	1.5	56.9	.....	.....	7	1	2	2	.....	1	17	1839	2960	2	0	0
Father Point*	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.95	760.7	29.97	761.2	48.2	9.0	88.7	1	10	10	2	1	.....	.....	3	3	.....	.....	5	3.11	79.0
Fort Garry*	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.24	742.7	30.06	763.5	42.9	6.1	89.5	6	8	3	2	4	6	.....	1	.....	8910	14339	6	1.95	49.5
Fredericton	N. 45 57	W. 66 38	7.41 a.m.	59	18	29.98	761.5	30.05	763.3	50.1	10.1	83.9	.....	10	2	5	.....	3	4	2	4	.....	.....	3	1.49	37.8
Grand Manan	N. 44 46	W. 66 45	7.41 a.m.	49	15	30.00	762.0	30.05	763.3	53.8	12.1	82.4	4	3	.....	7	5	2	2	3	4	7894	12704	5	2.05	52.1
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	29.01	736.8	30.11	764.8	47.1	8.4	92.6	1	2	.....	3	2	1	4	.....	17	.....	.....	6	2.82	71.6
Halifax*	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.94	760.5	30.07	763.8	53.9	12.2	87.2	1	7	6	4	3	1	2	.....	6	.....	.....	4	2.37	60.2
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	350	107	29.67	753.6	30.00	763.5	54.0	12.6	89.6	.....	1	2	12	.....	.....	2	13	.....	.....	.....	6	3.13	79.5
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.77	756.1	30.10	764.5	52.9	11.6	84.5	3	3	5	4	5	1	.....	8	1	4494	7232	5	2.70	68.6
Little GlaceBay *b*	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.95	760.7	29.98	761.5	58.2	14.6	84.9	4*a*	3	4	12	2	2	2	.....	.....	.....	.....	4	0.92	23.4
London	N. 43 00	W. 81 15	6.43 a.m.	832	254	29.22	742.2	30.13	765.3	49.0	9.4	93.5	2	.....	.....	2	1	2	.....	2	21	.....	.....	6	3.47	88.1
Medicine Hat	N. 50 01	W. 110 37	4.46 a.m.	2136	651	27.72	704.1	30.06	763.5	43.5	6.4	66.5	3	2	1	2	4	2	.....	1	15	5724	9212	1	0	0
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.86	758.4	30.06	763.5	52.0	11.1	83.1	.....	7	5	8	4	1	3	2	.....	.....	.....	5	3.57	90.7
Ottawa	N. 45 26	W. 75 41	7.05 a.m.	223	68	29.82	757.4	30.06	763.5	47.9	8.8	92.2*a*	6*a*	0	4	2	8	1	.....	2	.....	.....	.....	4	2.32	58.9
Parry Sound*	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.40	746.7	30.09	764.3	48.7	9.3	94.1	3	3	1	3	2	5	7	6	.....	6244	10048	5	4.76	120.9
Peterboro	N. 44 17	W. 78 18	6.54 a.m.	675	206	29.36	745.7	30.10	764.5	51.2	10.7	82.5	1	4	8	3	2	1	1	.....	10	.....	.....	4	0.22	5.6
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.41	747.0	30.10	764.5	51.4	10.8	94.4	3	3	3	3	2	1	.....	7	8	4905	7990	6	2.08	52.8
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.45	748.0	30.10	764.5	51.3	10.7	90.6	2	6	3	2	.....	.....	8	7	2	.....	.....	6	2.68	68.1
Qu Appelle	N. 50 44	W. 103 42	5.13 a.m.	2115	646	27.80	706.1	30.11	764.8	37.0	2.8	85.4	1	3	2	8	2	1	1	1	11	6548	10538	3	0.14	3.6
Quebec*	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.71	754.6	30.03	762.7	49.4	9.7	92.9	3	.....	8	5	6	.....	.....	3	5	.....	.....	6	2.95	74.9
Rockliffe*	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.63	752.6	30.08	764.0	47.9	8.8	92.1	.....	5	3	.....	.....	5	1	2	14	.....	.....	4	4.24	107.7
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.98	761.5	30.03	762.7	51.0	10.6	87.0	3	0	1	6	4	1	3	.....	6	.....	.....	4	1.55	39.4
Saint John, N.B	N. 45 17	W. 66 03	7.44 a.m.	130	40	29.90	759.4	30.05	763.3	51.0	10.6	92.8	1	1	6	.....	15	2	3	2	.....	.....	.....	5	2.38	60.5
Saint Johns, N.F.	N. 47 34	W. 52 54	8.36 a.m.	230?	70?	29.76	755.9	30.01	762.2	53.0	11.7	90.1	1	5	9	7	3	2	.....	3	.....	.....	.....	3	3.13	79.5
Saugeen*	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.38	746.2	30.08	764.0	50.8	10.4	85.1	2	2	2	7	2	5	7	2	1	6583	10594	6	3.93	99.8
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	28.86	733.0	30.11	764.8	38.1	3.4	92.7	2	4	2	3	3	6	2	1	7	.....	.....	6	2.56	65.0
Saint Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	29.96	761.0	54.8	12.7	.....	5	5	7	6	.....	1	3	3	.....	.....	.....	.....	4.73	120.1
S.W. Pt, Anticosti	N. 49 24	W. 63 36	7.54 a.m.	30	9	29.85	758.2	29.88	758.9	48.9	9.4	89.3	7	8	.....	.....	1	8	1	1	4	.....	.....	4	1.63	41.4
Sydney*	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.97	761.2	30.02	762.5	54.4	12.4	82.7	2	1	3	13	2	.....	1	3	5	6354	10547	5	2.46	62.5

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
CANADIAN —Con.	° ′	° ′																								
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.74	755.4	30.12	765.0	50.9	10.5	80.4	5	7	1	3	1	.....	3	7	3	6458	10393	6	2.23	56.6
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	29.07	738.4	30.13	765.3	50.7	10.4	86.4	8	1	8	3	2	1	5	1	1	.....	.....	6	2.10	53.3
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	30.00	762.0	30.07	763 8	53.1	11.7	89.5	3	2	2	5	3	2	5	2	6	.....	.....	5	1.72	43.7
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.05	763.3	30.08	764.0	62.7	17.1	82.0	.....	.....	10	8	.....	8	.....	3	1	.....	.....	7	0.86	21.8
Springbok *a*	S. 29 45	E. 17 43	1.19 p.m.	?	?	27.89	708.4	.....	.....	66.0	18.9	48.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
CHILIAN.																										
Coquimbo	S. 29 56	W. 71 21	7.22 a m.	72	22	30.00	761.9	30.08	763.9	53.2	11.8	89.9	1	2	1	5	6	4	8	3	.....	.....	.....	7	.....	.....
Iquique *c*	S. 20 12	W. 70 11	7.27 a m.	26	8	30.02	762.6	30.05	763.3	59.7	15.4	73.2	1	1	.....	10	4	5	.....	6	.....	.....	.....	.....	.....	.....
Niebla	S. 39 53	W. 73 25	7.14 a.m.	98	30	29.63	752.6	29.74	755.3	45.0	7.2	89.7	1	5	3	.....	1	.....	20	.....	.....	.....	.....	4	7.44	189.0
Punta Caldera	S. 27 03	W. 70 53	7.25 a.m.	82	25	29.97	761.3	30.06	763.6	55.4	13.0	82.1	1	10	1	5	.....	8	1	4	.....	.....	.....	7	.....	.....
Punta Corona	S. 41 47	W. 73 53	7.12 a.m.	174	53	29.95	760.8	30.14	765.6	.....	.....	.....	10	3	7	.....	4	2	3	1	.....	.....	.....	8	4.73	120.2
Valparaiso *a*	S. 33 02	W. 71 39	7.22 a.m.	131	40	29.93	760.2	30.07	763.8	52.9	11.6	85.0	6	3	2	9	3	2	1	3	.....	.....	.....	.....	.....	.....
CHINESE. (*Sub*).																										
Sung-shu-chwang	*a*N. 36 07	E. 103 56	7.04 p.m.	4987	1520	25.23	640.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	29.96	761.0	29.99	761.7	71.4	21.9	85.2	4	2	.....	.....	3	6	7	8	.....	.....	.....	7	2.55	64.8
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.81	757.1	29.85	758.3	59.4	15.2	73	.....	5	2	4	7	3	8	.....	1	.....	.....	7	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.80	756.9	29.82	757.4	59.9	15.5	78	1	1	6	9	4	2	6	1	.....	.....	.....	6	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.57	751.0	29.61	752.1	37.6	3.1	88	1	.....	2	2	10	.....	1	12	2	.....	.....	8	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.69	754.0	29.73	755.1	46.9	8.3	84	.....	1	.....	2	4	8	6	3	6	.....	.....	6	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.82	757.4	29.84	758.0	51.1	10.6	83	4	3	.....	5	.....	5	1	7	5	.....	.....	7	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.71	754.5	29.80	756.8	58.5	14.7	77	.....	4	5	6	3	4	5	3	.....	.....	.....	5	.....	.....
Egyptian.																										
Cairo	N. 30 03	E. 31 21	2.14 p.m.	?	?	29.74	755.3	.....	.....	89.1	31.7	.....	8	1	.....	.....	1	.....	1	19	.....	.....	.....	0	0	0
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.45	748.0	30.08	764.1	67.1	19.5	71.5	1	7	4	2	1	4	.....	.....	11	.....	.....	.....	2.60	65.9
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.52	749.8	30.03	762.8	62.4	16.9	82.1	1	3	1	10	7	1	.....	7	.....	.....	.....	.....	3.72	94.4
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.90	759.5	29.98	761.5	73.0	22.8	62.8	15	4	3	1	4	2	.....	1	.....	.....	.....	4	4.94	125.4
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.39	746.4	29.93	760.2	64.6	18.1	62	.....	3	2	8	8	5	3	1	.....	.....	.....	7	2.99	75.9
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.63	752.5	29.89	759.1	64.4	18.0	68.5	2	1	9	6	1	4	5	2	.....	.....	.....	7	3.30	83.7
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.03	737.4	29.92	759.9	64.8	18.2	70.7	3	.....	3	5	14	.....	.....	5	.....	.....	.....	.....	4.89	124.1
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.75	755.6	30.00	762.1	67.5	19.7	66.4	2	1	9	9	2	1	5	1	.....	.....	.....	8	2.68	68.1
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.41	747.0	29.95	760.6	66.0	18.9	71.5	3	.....	6	10	6	1	3	1	.....	.....	.....	.....	2.24	57.0
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.72	754.8	29.97	761.1	64.0	17.8	80.9	1	5	7	9	1	4	1	2	.....	.....	.....	7	4.43	112.5
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.82	757.5	29.91	759.6	64.4	18.0	77.7	3	3	10	8	3	2	.....	1	.....	.....	.....	5	4.17	106.0
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.58	751.2	29.88	759.0	64.8	18.2	77.6	3	1	1	7	8	.....	2	.....	8	.....	.....	6	3.04	77.1
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.39	746.5	29.89	759.2	62.6	17.0	68.7	1	.....	4	2	7	7	7	2	.....	.....	.....	7	3.98	101.0
Clermont-Fer'and	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.63	727.1	29.95	760.6	67.3	19.6	58.0	6	1	11	3	1	2	1	5	.....	.....	.....	5	2.99	76.0
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.14	740.2	29.98	761.4	66.0	18.9	60.9	4	4	3	8	2	3	2	4	.....	.....	.....	.....	5.25	133.3
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.09	738.9	29.93	760.2	61.7	16.5	69.6	2	4	11	1	4	1	5	2	.....	.....	.....	6	3.98	101.1
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.45	697.2	29.02	759.9	65.8	18.8	59.2	9	.....	.....	.....	21	.....	.....	.....	.....	.....	.....	4	2.67	67.8
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.85	732.8	29.94	760.5	71.8	22.1	51	2	15	1	5	4	1	1	1	.....	.....	.....	5	2.10	53.3
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.21	741.9	29.95	760.8	67.3	19.6	65.2	2	9	1	6	3	2	3	4	.....	.....	.....	.....	7.35	186.6
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.44	722.3	29.96	760.9	62.6	17.0	66.1	2	2	3	16	2	1	2	2	.....	.....	.....	6	3.29	83.5
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.64	752.8	29.91	759.8	63.3	17.4	75.3	1	6	9	5	5	3	1	.....	.....	.....	.....	6	3.57	90.6
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.46	748.2	30.06	763.6	68.9	20.5	65.0	.....	1	19	6	1	2	1	.....	.....	.....	.....	6	3.31	84.0
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.85	758.3	29.96	760.9	64.8	18.2	72.9	.....	6	2	11	3	4	1	1	2	.....	.....	7	3.96	100.5
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	28.94	735.0	29.97	761.3	64.4	18.0	63.4	5	6	2	.....	9	3	3	2	.....	.....	.....	7	4.15	105.3
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.64	752.9	29.94	760.5	63.7	17.6	.....	3	2	7	8	3	5	1	1	.....	.....	.....	6	3.18	80.8
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.69	754.2	29.96	760.9	71.8	22.1	58.2	.....	3	10	11	2	2	2	.....	.....	.....	.....	.....	1.07	27.2
Montlouis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.92	632.9	29.76	755.9	57.4	14.1	37	3	3	7	7	1	3	6	.....	.....	.....	.....	6	1.96	49.8
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.83	757.7	29.94	760.4	73.4	23.0	68.4	3	10	6	3	2	3	1	2	.....	.....	.....	4	1.84	46.8
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.83	757.6	29.93	760.3	65.8	18.8	68.1	1	3	7	8	5	2	2	2	.....	.....	.....	9	4.92	125.0
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.89	759.1	30.00	761.9	72.9	22.7	50.9	1	12	1	2	1	5	3	5	.....	.....	.....	5	1.02	26.0
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.30	541.1	.....	.....	38.5	3.6	.....	.....	10	9	6	.....	.....	2	1	2	.....	.....	5	3.83	97.2
Privas ... [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.92	734.6	29.96	761.0	67.6	19.8	63.6	9	1	.....	.....	11	4	.....	4	1	.....	.....	4	5.11	129.7
Puy de Dôme	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.15	638.9	.....	.....	46.9	8.3	89.7	1	1	13	9	.....	.....	2	4	.....	.....	.....	7	7.23	183.6
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	29.95	760.7	29.98	761.5	68.0	20.0	69.9	.....	1	5	9	3	1	.....	1	10	.....	.....	7	2.00	50.7
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.75	755.7	29.96	761.0	66.2	19.0	92.0	1	4	5	12	3	2	2	1	.....	.....	.....	7	6.42	163.2
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.89	708.4	30.03	762.7	56.1	13.4	83.3	.....	21	1	1	.....	2	1	.....	4	.....	.....	7	4.72	119.8
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.85	758.2	29.87	758.7	65.1	18.4	79	3	6	4	9	2	2	2	2	.....	.....	.....	6	5.23	132.9
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.76	755.8	29.92	760.0	64.6	18.1	66.1	*a*3	2	4	7	4	3	2	2	2	.....	.....	6	4.07	103.4
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.35	745.5	30.06	763.5	70.5	21.4	58.5	4	7	10	2	1	3	3	.....	.....	.....	.....	5	2.34	59.4
Tours	N. 47 24	E. 0 41	0.11 p.m.	167	51	29.77	756.2	29.95	760.8	66.9	19.4	65.2	2	1	6	9	9	1	.....	2	.....	.....	.....	5	4.84	123.0
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.43	747.4	29.92	759.9	64.2	17.9	63.3	7	2	8	5	3	3	1	1	.....	.....	.....	.....	3.22	81.8
Sub-Series.																										
St. Martin du Hinx	N. 43 35	W. 1 16	0.03 p.m.	131	40	29.91	759.8	30.06	763.6	68.4	20.2	68.7	3	11	3	4	2	3	4	.....	.....	.....	.....	7	8.00	203.3
GERMAN.																										
Ansbach	N. 49 18	E. 10 36	0.50 p.m.	1358	414	28.51	724.1	29.93	760.1	62.8	17.1	60.9	.....	4	8	8	1	3	2	3	1	.....	.....	7	2.34	59.5
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.10	739.2	29.93	760.3	64.8	18.2	62.8	1	4	6	4	5	2	1	2	5	.....	.....	6	2.84	72.1
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.76	755.9	29.90	759.4	65.3	18.5	60.5	.....	5	5	7	3	3	5	.....	2	.....	.....	7	0.99	25.1
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.43	747.6	29.96	760.9	63.9	17.7	59.1	2	1	9	2	5	6	4	.....	1	.....	.....	7	1.98	50.2
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.50	749.2	29.94	760.5	63.7	17.6	68.6	1	1	.....	15	1	1	2	7	2	.....	.....	8	5.46	138.8
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.17	741.0	29.90	759.4	62.6	17.0	65.8	7	1	1	5	11	1	4	.....	.....	.....	.....	6	2.34	59.4
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.56	750.9	29.91	759.7	65.1	18.4	62.2	3	1	5	8	4	3	4	1	1	.....	.....	7	2.42	61.6
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1339	408	28.56	725.4	29.94	760.5	63.5	17.5	72.4	1	1	5	19	1	1	.....	2	.....	.....	.....	6	4.65	118.0
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.79	756.6	29.87	758.7	61.9	16.6	75.6	2	4	4	9	2	3	5	.....	1	.....	.....	7	2.48	63.1
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.84	757.9	29.86	758.4	60.3	15.7	71.4	2	2	5	7	1	2	5	1	5	.....	.....	7	2.10	53.3
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.50	749.3	29.91	759.7	64.9	18.3	60.0	.....	5	3	8	4	4	3	3	.....	.....	.....	7	2.74	69.5
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.70	754.4	29.88	759.0	65.8	18.8	59.5	.....	4	6	7	4	2	6	1	.....	.....	.....	7	2.39	60.8
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.92	759.9	29.97	761.1	61.2	16.2	67.2	3	3	3	4	7	6	3	1	.....	.....	.....	6	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.13	714.5	29.99	761.7	62.4	16.9	62.7	1	7	4	4	.....	1	3	8	2	.....	.....	6	4.19	106.5
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.90	759.5	29.92	759.9	63.7	17.6	65.0	3	3	3	7	4	5	3	2	.....	.....	.....	6	2.33	59.2
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.38	747.2	29.91	759.6	64.0	17.8	69.0	.....	.....	10	3	4	1	3	4	5	.....	.....	8	3.27	83.0
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.00	736.6	29.86	758.4	64.0	17.8	64.5	7	1	5	8	3	.....	3	3	.....	.....	.....	7	2.28	57.8
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.84	757.9	29.86	758.5	60.8	16.0	72.7	2	1	4	8	3	4	4	4	.....	.....	.....	7	1.26	32.1
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.56	750.7	29.94	760.5	81.3	27.4	.....	2	.....	1	13	3	.....	.....	11	.....	.....	.....	8	0.14	3.6
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.66	753.2	29.71	754.5	82.9	28.3	75	.....	1	11	16	2	.....	.....	.....	.....	.....	.....	5	0.54	13.7
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.20	741.6	29.56	753.5	86.5	30.3	60	1	3	12	11	1	.....	1	1	.....	.....	.....	7	3.54	89.9
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.76	756.0	29.80	757.0	79.8	26.6	85	.....	9	18	3	.....	.....	.....	.....	.....	.....	.....	9	11.22	285.0
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.95	709.9	29.82	757.4	74.0	23.3	79	.....	11	12	6	.....	.....	.....	1	.....	.....	.....	8	10.91	277.1
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.53	750.1	29.81	757.1	90.7	32.6	47	.....	13	12	1	.....	.....	.....	3	1	.....	.....	6	4.67	118.6
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.29	718.5	29.74	755.3	85.9	29.9	48	.....	2	26	2	.....	.....	.....	.....	.....	.....	.....	7	0.28	7.1
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.29	693.2	29.85	758.2	71.0	21.7	82	.....	.....	18	12	.....	.....	.....	.....	.....	.....	.....	8	6.67	169.4
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.90	733.9	29.62	752.4	88.1	31.2	60	4	.....	.....	.....	.....	.....	5	2	19	.....	.....	2	10.72	272.3
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.73	729.7	29.61	752.1	86.0	30.0	69	.....	2	2	.....	2	1	1	.....	22	.....	.....	4	4.89	124.2
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.07	738.4	29.62	752.4	91.8	33.2	50	.....	8	9	1	.....	1	7	4	.....	.....	.....	4	3.65	92.7
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.64	727.3	29.67	753 6	80.4	26.9	78	.....	4	6	5	.....	2	.....	.....	13	.....	.....	8	15.72	399.3
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28.32	719.4	29.67	753.5	81.8	27.7	75	1	6	7	3	2	1	2	5	3	.....	.....	7	12.50	317.5
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.25	743.0	29.62	752.4	87.2	30.7	65	4	4	1	1	.....	2	1	1	16	.....	.....	4	4.18	106.2
Allahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.31	744.4	29.62	752.3	84.3	29.1	80	.....	1	.....	.....	.....	1	.....	6	22	.....	.....	5	4.92	125.0
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.45	748.0	29.63	752.7	85.4	29.7	77	.....	2	1	1	1	5	9	7	4	.....	.....	6	4.53	115.1
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.65	702.3	29.65	752.0	78.5	25.8	81	1	3	.....	1	2	6	6	2	9	.....	.....	8	11 56	293.6

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for September, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
INDIAN—Cont'd.	° ′	° ′																								
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.58	751.2	29.66	753.2	83.8	28.8	79	.....	.....	1	3	2	1	.....	3	20	.....	.....	7	10.92	277.4
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.63	752.7	29.66	753.2	82.6	28.1	86	.....	.....	1	6	10	8	4	1	.....	.....	.....	8	6.96	176.8
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.56	750.7	29.67	753.7	81.6	27.6	86	1	.....	.....	.....	1	1	1	1	25	.....	.....	6	12.92	328.2
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.64	752.8	29.73	755.1	80.3	26.8	88	.....	.....	.....	6	7	8	.....	1	8	.....	.....	8	1.30	33.0
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.36	745.8	29.70	754.3	83.4	28.6	84	1	3	.....	4	.....	7	1	14	.....	.....	.....	7	12.21	310.1
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.24	717.2	29.65	753.1	87.7	30.9	56	3	13	2	4	.....	2	.....	4	2	.....	.....	2	7.24	183.9
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	30.01	762.2	.....	.....	81.3	27.4	65.8	1	9	2	1	3	9	2	.....	3	.....	.....	5	0	0
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.54	750.3	29.94	760.4	70.9	21.6	55	.....	.....	.....	2	4	1	6	.....	17	.....	.....	6	4.29	108.9
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.44	747.7	29.94	760.5	71.2	21.8	54	1	2	2	4	7	6	2	6	.....	.....	.....	6	2.66	67.7
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.82	757.4	29.93	760.1	70.9	21.6	57	8	.....	1	3	9	3	1	5	.....	.....	.....	6	2.67	67.8
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.04	737.6	29.92	760.0	68.0	20.0	63	4	17	.....	2	3	.....	2	2	.....	.....	.....	6	2.04	51.7
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.74	755.3	29.92	760.0	71.8	22.1	59	4	3	....	11	3	5	2	2	.....	.....	.....	5	3.82	97.0
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.06	712.7	29.93	760.3	65.5	18.6	65	9	10	8	.....	.....	1	1	1	.....	.....	.....	5	1.31	33.2
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.88	759.0	29.93	760.2	72.3	22.4	62	6	.	1	6	1	1	6	9	.....	.....	.....	5	4.11	104.5
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.67	753.6	29.92	760.0	74.8	23.8	49	5	2	7	7	3	1	1	4	.....	.....	.....	6	1.31	33.3
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	29.79	756.6	29.87	758.7	73.0	22.8	64	2	3	11	8	2	.....	1	3	.....	.....	.....	5	2.04	67.1
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.75	755.7	29.92	760.0	76.6	24.8	48	4	5	2	11	7	....	1	.....	.....	.....	.....	6	4.02	102.0
Lecce	N. 40 22	E. 18 12	1.21 p.m.	230	72	29.69	754.0	29.93	760.2	75.9	24.4	50	4	2	8	2	2	4	4	4	.....	.....	.....	4	1.53	38.8
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.08	738.6	29.94	760.5	76.1	24.5	64	.....	5	13	6	5	.....	1	.....	.....	.....	.....	4	3.25	82.5
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.76	755.9	29.95	760.7	76.3	24.6	56	.....	10	1	1	5	9	2	.....	2	.....	.....	4	2.82	71.5
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.73	755.1	29.97	761.2	76.1	24.5	60	3	6	6	2	.....	.....	1	12	.....	.....	.....	4	4.31	109.5
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	29.89	759.3	29.94	760.4	78.4	25.8	61	3	.....	2	8	5	1	8	3	.....	.....	.....	6	1.03	26.1
Sub-Series.																										
Naples *a.*	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.46	748.2	29.97	761.2	72.9	22.7	66.1	1	4	3	13	2	3	.....	3	.....	.....	.....	6	4.34	110.1
JAPANESE.																										
Akita	N. 39 42	E. 140 07	9.28 p.m.	32	10	29.93	760.1	29.97	761.1	63.7	17.6	95	1	1	1	2	.....	2	7	.....	16	.....	.....	7	6.58	166.9
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.90	759.4	29.93	760.3	61.5	16.4	86.2	3	.....	6	6	10	2	1	.....	2	3183	5122	5	5.10	129.5
Hamamatsu	N. 34 43	E. 137 43	9.19 p.m.	26	8	29.91	759.6	29.97	761.3	71.1	21.7	86	2	1	7	1	2	.....	4	4	9	.....	.....	5	6.82	173.2
Kagoshima	N. 31 35	E. 130 33	8.50 p.m.	14	4	29.94	760.5	29.95	760.8	72.4	22.4	78.2	3	7	2	.....	.....	1	2	2	13	.....	.....	4	3.10	78.9
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	29.87	758.6	29.97	761.2	68.2	20.1	85.5	.....	.....	.....	1	1	10	6	1	11	2481	3991	6	7.49	190.0
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.80	756.8	29.97	761.2	70.0	21.1	78.5	17	4	3	.....	1	1	4	.....	.....	2515	4048	5	4.61	117.0
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	29.94	760.6	29.97	761.1	73.0	22.8	81.7	5	5	8	1	.....	. ...	8	2	1	5159	8302	6	5.86	149.1
Minaaka	N. 31 56	E. 131 26	8.54 p.m.	26	8	29.93	760.2	29.96	760.9	71.8	22.1	85	8	.....	9	2	1	2	6	2	.....	.....	.....	5	11.10	282.0
Miyako	N. 39 38	E. 141 59	9.36 p.m.	98	30	29.87	758.7	29.98	761.5	63.1	17.3	90	1	.....	13	3	7	.....	3	.....	3	1385	2229	7	5.61	142.4
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.76	756.0	29.96	761.0	71.2	21.7	78.9	6	.....	.....	1	.....	.....	.....	6	17	2649	4263	4	3.80	96.4
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.93	760.2	29.96	761.0	69.1	20.6	82.8	. ....	1	2	5	.....	13	3	6	.....	3812	6183	6	9.20	233.7
Nobiru	N. 38 23	E. 141 11	9.32 p.m	15	5	29.95	760.8	29.97	761.2	66.4	19.1	89.6	12	.....	2	.....	6	.....	5	5	.....	7201	11686	8	4.28	108.8
Numazu	N. 35 06	E. 138 51	9.23 p.m.	32	10	29.94	760.4	29.97	761.3	70.7	21.5	83	4	.....	.....	2	5	1	13	4	1	.....	.....	7	2.89	73.5
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	29.95	760.6	29.96	761.1	71.7	22.0	78.6	4	.....	7	1	.....	.....	4	14	... ..	5358	8622	5	3.78	95.8
Sakai	N. 35 01	E. 133 31	9.01 p.m.	10	3	29.96	760.9	29.97	761.1	69.3	20.7	81	5	2	5	2	.....	.....	4	6	6	.....	.....	6	5.59	142.1
Shimonoseki	N. 33 58	E. 130 56	8.52 p.m.	13	4	29.83	757.6	29.97	761.3	70.7	21.5	82.9	1	.....	.....	.....	1	.....	1	1	26	.....	.....	4	6.04	153.5
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	29.91	759.6	29.95	761.5	69.4	20.8	88.7	9	.....	.....	1	8	2	8	2	.....	5671	9127	6	6.26	159.1
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.90	759.4	29.95	760.7	73.1	22.8	73.8	2	.....	.....	1	9	.....	10	4	4	3520	5665	5	5.68	144.3
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.97	761.2	30.16	766.0	72.6	22.6	64.4	.....	.....	3	2	.....	9	10	.....	.....	.....	.....	5	1.07	27.2
MEXICAN.																										
Leon *a*	N. 21 07	W. 101 35	5.22 a.m.	5901	1799	24.33	618.0	30.00	762.0	58.8	14.9	88.0	3	8	9	3	2	2	2	.....	.....	.....	.....	8	4.58	116.3
Mazatlan *a*	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.65	753.1	29.91	759.6	78.4	25.8	86.4	3	.....	.....	.....	1	.....	7	14	.....	.....	.....	7	7.28	185.0
Sub-Series.																										
Altata	N. 24 40	W. 107 55	4.56 a.m.	?	?	.....	.....	.....	.....	78.0	25.6	89.4	2	.....	.....	.....	2	6	8	9	3	.....	.....	5	6.95	176.5
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.86	758.4	29.86	758.4	63.3	17.4	.....	1	.....	5	7	5	4	4	4	.....	.....	.....	.....	2.28	57.8
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.79	756.6	29.84	758.0	59.0	15.0	.....	2	3	4	7	7	1	3	3	.....	.....	.....	.....	2.96	75.2
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.83	757.6	29.83	757.6	60.1	15.6	.....	.....	3	3	9	2	6	5	2	.....	.....	.....	.....	1.72	43.8
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.85	758.2	29.85	758.2	62.6	17.0	71.5	. ....	2	6	8	.. .	3	7	1	3	.....	.....	.....	3.02	92.0
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.82	757.4	29.87	758.6	63.0	17.2	70.9	.....	2	2	9	4	5	5	3	.....	.....	.....	6	2.41	61.3
Sub-Series.																										
Batavia	S. 6 11	E. 106 48	7.15 p.m.	?	?	29.91	759.7	.....	.....	80.2	26.8	77.4	19	.. ..	1	.....	1	.....	1	8	.....	.....	.....	6	1.11	28.3
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.72	754.8	29.78	756.4	57.4	14.1	67	3	4	.....	4	10	3	4	1	1	.....	.....	6	4.33	110.0
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.78	755.3	29.82	757.3	54.0	12.2	66	6	2	3	7	3	4	.....	.....	5	.....	.....	6	2.82	71.5
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.68	753.9	29.82	757.5	57.2	14.0	68	2	1	3	10	1	2	5	4	2	.....	.....	7	4.04	102.6
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.78	755.5	29.81	757.1	44.8	7.1	.....	2	4	5	7	2	2	2	4	2	.....	.....	8	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.78	756.5	29.83	757.7	49.3	9.6	70	4	....	4	6	4	.....	2	5	5	.....	.....	6	2.28	57.9
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	70.7	21.5	82.6	5	1	5	7	.....	4	2	5	1	.....	.....	4	7.09	180.0
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.08	764.1	30.17	766.2	75.6	24.2	63.0	1	1	.. ..	20	1	4	1	1	1	.....	.....	4	0.03	0.8
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	312	95	29.78	756.5	30.11	764.8	70.3	21.3	60.2	8	3	.....	9	6	1	.....	3	.....	.....	.....	5	0.85	21.5
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.12	765.1	30.19	766.9	73.0	22.8	71.0	4	....	3	6	2	.....	1	9	5	.....	.....	5	2.98	75.8
St. Paul de Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.79	756.7	29.99	761.8	73.2	22.9	84.6	6	8	9	5	.....	.....	.....	2	.....	.....	.....	7	0.04	0.9
San Salvador	S. 6 17	E. 14 53	1.07 p.m.	1834	559	28.13	714.0	29.98	761.4	77.0	25.0	60.5	2	4	14	5	2	1	.....	2	.....	.....	.....	8	.....	.....
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.39	645.0	30.06	763.4	57.2	14.0	59.0	.....	9	6	6	1	2	4	2	.....	.....	.....	5	7.77	197.3
RUSSIAN																										
Akmolinski *b*	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.86	733.0	29.91	759.7	62.2	16.8	38.6	2	4	5	2	3	1	3	6	2	.....	.....	4	0.19	4.8
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.91	759.7	29.93	760.2	50.2	10.1	76.7	1	5	7	1	4	5	1	2	4	.....	.....	8	2.18	55.3
Ashurada	N. 36 54	E. 53 55	3.44 p.m.	79	24	30.08	764.1	29.99	761.7	79.2	26.2	67.5	4	12	9	3	..	.....	1	.....	1	.....	.....	4	2.03	51.6
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.17	766.4	30.10	764.6	73.8	23.2	37.9	2	1	1	2	7	8	3	6	.....	.....	.....	3	0	0
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	30.08	764.1	30.04	762.9	75.2	24.0	64.3	10	1	.....	1	7	4	2	3	2	.....	.....	2	0.43	11.0
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.48	748.8	29.97	761.3	55.8	13.2	53.8	.....	2	7	6	3	.....	7	5	.....	.....	.....	5	1.18	30.1
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.52	749.7	29.98	761.4	58.5	14.7	72.4	.....	7	6	2	5	1	1	1	7	.....	.....	7	1.55	39.4
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.72	754.8	29.96	760.9	61.3	16.3	65.1	1	2	3	8	8	4	3	1	.....	.....	.....	7	1.93	49.1
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	29.04	737.5	29.99	761.8	54.9	12.7	55.0	4	5	7	6	2	3	1	1	1	.....	.....	7	0.41	10.3
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.60	751.8	30.03	762.8	73.6	23.1	32.2	1	2	4	4	3	7	7	1	1	.....	.....	4	0.16	4.2
Irkutsk	N. 52 16	E. 104 16	7.05 p.m.	1536	468	28.43	722.2	30.09	764.2	40.2	7.9	71.1	1	4	.....	.....	2	1	1	3	18	.....	.....	5	0.52	13.2
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.76	755.8	30.02	762.5	63.7	17.6	50.5	3	3	5	8	3	5	1	2	.....	.....	.....	6	1.12	28.4
Kem	N. 64 57	E. 34 39	2.26 p.m.	43	13	29.88	758.8	29.93	760.1	52.0	11.1	66.8	1	6	7	7	.....	3	1	2	3	.....	.....	8	1.52	38.7
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.94	760.5	29.96	761.1	72.3	22.4	58.9	.....	2	1	.....	1	1	8	8	9	.....	.....	3	0.84	21.2
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.37	745.9	29.98	761.5	69.3	20.7	43.9	2	3	1	2	9	4	5	4	.....	.....	.....	5	0.97	24.7
Koslov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.54	750.4	30.03	762.8	67.6	19.8	49.9	2	2	4	7	3	2	5	3	2	.....	.....	5	0.40	10.1
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	29.91	759.6	29.93	760.2	62.2	16.8	66.0	1	3	4	5	6	7	2	1	1	.....	.....	5	3.34	84.7
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.82	757.3	30.02	762.4	73.8	23.2	33.8	.....	2	2	5	1	5	7	8	.....	.....	.....	4	0.47	11.9
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.56	750.7	30.02	762.4	64.2	17.9	54.8	2	4	5	6	2	1	1	2	7	.....	.....	5	1.05	26.6
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.94	760.5	30.01	762.3	76.1	24.5	41.5	1	2	1	3	4	3	5	6	5	.....	.....	2	0.73	18.5
Nikolaievsk *a*	N. 53 08	E. 140 45	9.31 p.m.	59	18	.....	.....	.....	.....	48.2	9.0	84.2	1	2	3	2	1	2	2	2	14	.....	.....	5	.....	.....
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.84	757.8	29.98	761.4	64.9	18.3	70.0	.....	5	.....	6	2	2	.....	1	14	.....	.....	4	1.65	41.8
Petro-Alexandrovsk	N. 41 28	E. 61 05	4.12 p.m.	328	100	29.67	753.6	30.01	762.2	77.7	25.4	26.2	6	10	1	1	.....	.....	1	2	9	.....	.....	3	0.10	4.1
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.74	755.5	29.94	760.5	55.2	12.9	69.6	2	9	4	4	2	4	2	3	.....	.....	.....	7	3.33	84.6
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.49	749.1	29.98	761.4	65.7	18.7	59.6	....	4	3	3	5	9	4	1	1	.....	.....	6	0.94	24.0
Poti	N. 42 09	E. 41 37	2.54 p.m.	406?	142?	29.89	759.2	29.92	760.0	79.5	26.4	75.3	1	10	4	9	2	.....	3	.....	1	.....	.....	3	3.37	85.7
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	29.94	760.4	29.96	761.0	60.1	15.6	61.2	2	6	8	5	4	2	2	1	.....	.....	.....	5	3.70	94.1
Samarkand	N. 39 39	E. 66 57	4.36 p.m.	2379?	725?	27.55	700.4	29.96	760.9	72.5	22.5	40.9	.....	2	2	.....	1	2	2	.....	21	.....	.....	1	0.02	0.6
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.36	745.6	30.00	762.1	60.6	15.9	40.9	7	4	5	.....	1	.....	.....	1	11	.....	.....	3	0.52	13.1
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	138?	42?	29.74	755.5	29.95	760.7	75.7	24.3	54.4	4	9	6	5	2	.....	1	3	.....	.....	.....	3	0.24	6.0
Staroi Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.46	748.2	30.00	761.9	62.0	20.0	63.5	.....	1	3	2	5	11	4	4	.....	.....	.....	7	0.77	19.5

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for September, 1883. Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
RUSSIAN.—Cont'd	° ′	° ′																								
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.32	719.4	29.92	759.9	77.7	25.4	34.4	1	1	1	.....	.....	.....	.....	.....	27	.....	.....	2	0	0
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1313	409	28.62	727.0	29.99	761.7	75.2	24.0	49.3	1	5	2	.....	4	11	3	.....	4	.....	.....	4	2.02	51.3
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.46	697.5	29.90	759.4	65.7	18.7	56.2	.....	2	1	.....	1	1	.....	4	21	.....	.....	3	0.74	18.7
Viatka	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.36	745.7	29.98	761.6	55.9	13.3	70.5	4	3	6	7	2	5	2	.....	1	.....	.....	6	1.86	47.3
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.52	749.9	29.94	760.4	63.0	17.2	63.5	1	2	4	4	7	6	5	1	.....	.....	.....	6	1.88	47.7
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.81	757.2	30.10	764.6	44.2	6.8	71.8	1	4	10	2	.....	2	9	2	.....	.....	.....	6	0.99	25.1
SPANISH.																										
Barcelona	N. 41 23	E. 2 15	0.16 p.m.	98	30	29.87	758.7	29.97	761.2	75.7	24.3	67	.....	.....	7	3	10	2	6	2	.....	2564	4127	4	2.28	57.9
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.00	762.0	30.00	763.5	74.8	23.8	55	3	13	1	.....	1	7	1	1	3	2057	3311	6	2.71	68.9
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.14	689.3	30.03	762.7	67.3	19.6	50	4	1	3	14	2	.....	.....	6	.....	4466	7187	4	0.42	10.8
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.86	707.6	30.00	761.9	76.5	24.7	35.3	2	4	3	14	4	1	2	.....	.....	7009	11280	3	0.18	4.5
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.90	759.5	30.03	762.8	74.8	23.8	50	.....	2	.....	3	8	11	3	3	.....	1691	2721	4	inap.	inap.
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.26	743.2	30.02	762.5	61.5	16.4	78	2	4	1	.....	8	4	11	.....	.....	3039	4891	8	2.91	74.0
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.13	740.0	30.01	762.3	65.8	18.8	74	4	2	3	14	3	.....	1	3	.....	6725	10823	7	7.21	183.2
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.93	760.2	30.00	761.8	77.0	25.0	86.6	.....	.....	.....	.....	5	16	9	.....	.....	.....	.....	2	3.83	97.3
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.81	757.2	29.87	758.7	78.6	25.9	88.4	2	1	3	8	4	6	3	3	.....	.....	.....	8	13.79	350.4
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.00	761.9	30.09	764.3	76.0	24.5	59	1	4	14	7	2	.....	2	.....	.....	.....	.....	3	0	0
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.93	760.3	30.02	762.6	80.4	26.9	86	.....	.....	.....	.....	.....	10	3	2	15	.....	.....	3	3.86	98.0
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.89	759.2	29.93	760.2	48.9	9.4	76	5	2	.....	7	8	5	.....	2	1	.....	.....	6	1.18	29.9
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.86	758.5	29.91	759.8	53.6	12.0	70	2	3	1	9	9	1	1	4	.....	.....	.....	6	3.52	89.4
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.83	757.6	29.88	758.9	56.7	13.7	68	3	3	.....	5	8	1	3	4	3	.....	.....	6	2.48	63.0
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.72	754.8	29.89	759.3	57.4	14.1	70	3	1	1	2	9	3	5	5	1	.....	.....	7	2.41	61.3
Wisby	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.81	757.1	29.87	758.6	60.4	15.8	72	1	2	5	6	5	5	4	2	.....	.....	.....	5	2.27	57.6
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.79	756.6	29.87	758.8	56.3	13.5	75.2	2	3	2	2	9	5	4	3	.....	.....	.....	7	2.68	68.1
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.57	725.7	29.97	761.2	64.2	17.9	65.2	9	3	1	3	9	1	2	2	.....	.....	.....	6	5.67	144.1
TURKISH.																										
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.95	760.8	75.0	23.9	58	12	.....	.....	7	1	.....	1	9	.....	.....	.....	5	2.22	56.4
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.08	764.0	76.6	24.8	.....	.....	8	8	7	6	1	.....	.....	.....	.....	.....	4	4.41	112.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.91	759.7	81.5	27.5	59.2	3	8	7	9	.....	.....	.....	3	.....	.....	.....	2	0	0
Samakov *j*	N. 42 12	E. 23 45	1.42 p.m.	?	?	26.38	670.0	.....	.....	69.2	20.7	74.1	.....	1	3	.....	.....	.....	2	2	12	.....	.....	7	3.04	77.2
UNITED STATES.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	30.04	763.0	30.12	765.0	56.6	13.7	74.2	7	6	2	3	10	.....	.....	1	1	3220	5182	6	3.19	81.0
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.42	747.3	30.07	763.8	49.3	9.6	86.5	.....	8	7	6	2	1	3	1	2	5973	9613	5	2.45	62.2
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.11	637.8	29.91	759.7	48.4	9.1	70.9	.....	.....	.....	.....	.....	7	12	4	7	3608	5806	1	0.60	15.2
Assinaboine, Ft	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.28	692.9	30.13	765.3	43.9	6.6	74.0	.....	1	1	10	6	1	5	5	1	6214	10000	3	0.65	16.5
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1129	344	28.94	735.1	30.11	764.8	64.3	17.9	80.8	4	7	5	.....	.....	3	6	2	3	4546	7316	4	1.38	35.1
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	30.08	764.0	30.09	764.3	62.0	16.7	82.7	8	1	5	2	2	.....	2	6	4	7430	11957	7	5.31	134.9
Augusta *a*	N. 33 28	W. 81 54	6.40 a.m.	183	56	29.91	759.7	30.10	764.5	67.3	19.6	83.9	4	1	.....	.....	1	3	.....	4	17	2757	4438	5	1.25	31.7
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	30.07	763.8	30.12	765.0	60.9	16.1	78.8	4	2	3	.....	5	1	3	11	1	4110	6614	6	3.49	88.6
Barnegat City	N. 39 46	W. 74 06	7.12 a.m.	22	7	30.07	763.8	30.09	764.3	62.5	16.9	83.8	6	1	6	1	2	.....	6	7	1	11196	18018	6	4.84	122.9
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.77	756.1	29.79	756.7	43.9	6.6	90.9	5	2	3	7	8	2	2	1	.....	8449	13597	7	3.67?	93.2?
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.51	724.1	30.10	764.5	48.1	9.0	78.5	2	12	.....	2	1	7	1	3	2	6175	9776	4	0.30	7.6
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.36	694.9	30.20	767.1	48.5	9.2	71.1	1	.....	1	1	1	.....	.....	.....	26	2054	3305	6	0.93	23.6
Bismarck	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.28	718.3	30.08	764.0	45.9	7.7	79.2	4	5	2	.....	1	6	4	4	4	6125	9857	4	0.04	1.0
Block Id	N. 41 10	W. 71 36	7.22 a.m.	27	8	30.07	763.8	30.10	764.5	59.7	15.4	81.4	5	3	3	6	.....	.....	1	11	1	9729	15656	5	2.60	66.0
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.21	691.1	29.98	761.5	47.4	8.6	.....	9	7	7	1	1	5	.....	.....	.....	2113	3400	2	0.20	5.1
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	29.94	760.5	30.09	764.3	55.7	13.2	80.7	2	9	3	9	2	1	1	3	.....	6104	9823	4	1.50	38.1
Brownsville	N. 25 53	W. 97 26	5.38 a.m.	57	17	29.95	760.7	30.01	762.2	71.7	22.1	92.5	8	1	.....	1	1	2	2	4	11	3017	4855	5	7.74	196.6
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	696	212	29.36	745.7	30.09	764.3	53.2	11.8	81.2	.....	2	2	4	5	3	6	8	.....	6311	1056	6	2.11	53.6
Buford, Fort	N. 48 00	W. 103 56	5.12 a.m.	1930	588	28.08	713.2	30.12	765.0	42.4	5.8	81.3	5	7	5	.....	4	.....	4	3	2	5627	9040	3	0.22	5.6
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.71	754.6	30.11	764.8	61.2	16.2	81.3	9	1	1	7	4	.....	.....	6	2	4690	7548	4	0.34	8.6
Canby, Fort *a*	N. 46 16	W. 124 04	3.52 a.m.	179	54	29.80	756.9	30.00	762.0	57.6	14.2	90.7	3	4	3	.....	10	7	1	1	.....	7052	11348	4	3.15	80.0
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.06	763.5	30.08	764.0	67.7	19.8	84.6	4	.....	2	6	6	.....	2	10	.....	11091	17849	7	5.39	136.9
Cape May *a*	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.06	763.5	30.09	764.3	63.5	17.5	82.3	4	2	2	4	3	.....	1	12	1	10627	17102	6	4.59	116.6
Cape Mendocino	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.28	743.7	29.96	761.0	56.9	13.8	83.4	4	16	.....	.....	.....	4	.....	.....	6	.....	.....	2	1.40	35.6
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.02	762.5	30.04	763.0	74.7	23.7	85.3	11	.....	1	.....	2	.....	2	13	1	5099	8206	3	2.77	70.4
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	29.98	761.5	30.03	762.7	70.6	21.4	90.1	8	1	4	4	.....	1	3	8	1	5784	9308	5	2.36	59.9
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.24	742.7	30.08	764.0	63.8	17.7	81.6	3	3	.....	9	1	1	2	11	.....	3785	6091	5	4.00	101.6
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.29	744.0	30.10	764.5	63.1	17.3	86.5	3	4	5	2	1	1	.....	5	9	2976	4789	5	3.40	86.4
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6089	1856	24.17	613.9	30.05	763.3	45.1	7.3	56.1	2	18	3	4	1	.....	1	1	.....	5590	8996	2	0.90	22.9
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.38	746.2	30.07	763.8	56.9	13.8	76.4	.....	4	1	8	1	6	4	5	1	4783	7697	4	1.36	34.5
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.06	763.5	30.08	764.0	65.2	18.4	88.4	3	5	.....	3	4	2	4	9	.....	7368	11857	7	4.05	102.9
Cincinnati	N. 39 06	W. 84 30	6.30 a.m.	620	189	29.44	747.8	30.09	764.3	60.2	15.7	78.2	3	2	2	1	1	6	4	1	.....	3385	5447	4	1.83	46.5
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.36	745.7	30.08	764.0	55.3	12.9	73.8	3	.....	1	1	2	16	2	4	1	5389	8673	6	4.03	102.4
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.24	742.7	30.08	764.0	55.9	13.3	80.3	6	5	3	1	7	2	2	4	.....	4480	7210	4	2.43	61.7
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.16	715.3	30.06	763.5	62.7	17.1	83.0	1	3	3	4	6	2	.....	6	5	4931	7935	5	3.98	101.1
Custer, Fort	N. 45 42	W. 107 34	4.58 a.m.	3040	927	26.98	685.3	30.10	764.5	44.9	7.2	68.9	6	2	3	1	3	2	8	5	.....	3890	6260	1	0.46	11.7
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.41	747.0	30.06	763.5	53.7	12.1	81.1	2	2	2	6	1	2	7	8	.....	5525	8891	4	0.73	18.5
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.29	642.4	29.99	761.7	57.6	14.2	75.2	5	.....	.....	1	.....	2	.....	2	20	3208	5162	4	1.49	37.8
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1667	508	28.32	719.3	30.07	763.8	49.5	9.7	62.8	4	.....	.....	6	2	.....	7	8	3	2799	4504	3	0.09	2.3
Deadwood	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.48	647.2	30.04	763.0	47.0	8.3	79.7	3	5	1	1	5	1	.....	6	8	2902	4670	3	0.11	2.8
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.07	763.8	30.09	764.3	64.0	17.8	89.6	2	3	2	6	3	1	.....	13	.....	12666	20374	6	2.62	66.6
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.89	632.2	30.00	762.0	51.5	10.8	62.5	5	3	.....	2	16	3	.....	.....	1	4541	7308	3	1.08	27.4
Des Moines *a*	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.20	741.7	30.09	764.3	52.7	11.5	80.4	7	3	3	2	4	1	3	4	3	3725	5995	6	1.88	47.8
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.40	746.7	30.09	764.3	54.9	12.7	81.6	2	3	7	2	3	1	5	6	.....	6036	9714	5	1.50	38.1
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2512	766	27.50	698.5	30.05	763.3	56.0	13.3	82.6	1	8	.....	1	4	9	3	4	.....	8355	13446	5	1.32	33.5
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.38	746.2	30.08	764.0	51.6	10.9	81.0	5	8	.....	4	4	4	2	1	2	3033	4881	4	2.09	53.1
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.33	745.0	30.07	763.8	50.4	10.2	80.7	.....	6	7	1	1	.....	.....	3	12	5527	8894	5	2.21	56.1
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	29.97	761.2	30.04	763.0	53.1	11.7	79.3	2	4	3	6	5	1	1	2	6	4956	7976	4	2.50	63.5
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.35	694.7	30.04	763.0	57.1	13.9	72.1	2	5	1	3	2	3	1	3	10	6007	9667	4	4.97	126.2
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3764	1147	26.36	669.5	30.01	762.2	61.0	16.1	66.8	.....	1	.....	.....	1	2	7	3	16	2965	4772	3	2.51	63.8
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.38	746.2	30.09	764.3	55.6	13.1	77.6	3	3	.....	.....	14	4	4	2	.....	5717	9200	6	4.41	112.0
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.42	747.3	30.08	764.0	48.2	9.0	87.9	11	4	5	3	3	.....	2	.....	2	6464	10403	4	2.92	74.2
Fort Smith	N. 35 22	W. 94 24	5.50 a.m.	451	137	29.62	752.3	30.08	764.0	60.4	15.8	82.6	3	.....	2	.....	.....	.....	10	1	14	2769	4456	3	2.34	59.4
Galveston	N. 29 18	W. 94 47	5.49 a.m.	40	12	30.00	762.0	30.04	763.0	76.3	24.6	76.0	2	.....	2	2	4	5	5	9	1	5838	9395	5	3.22	81.8
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.42	747.3	30.08	764.0	53.7	12.1	84.0	3	1	2	3	3	2	7	9	.....	7134	11480	6	2.29	58.2
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4860	1481	25.27	641.8	29.87	758.7	63.5	17.5	47.2	6	4	1	3	.....	5	4	7	.....	5882	9466	1	0.42	10.7
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	19	6	30.03	762.7	30.05	763.3	72.1	22.3	84.7	3	1	2	7	1	.....	3	13	.....	12229	19683	6	9.89	251.2
Helena	N. 46 34	W. 112 04	4.40 a.m.	4100	1250	25.91	658.1	30.08	764.0	52.8	11.6	57.3	3	2	2	13	.....	.....	.....	10	.....	2572	4139	2	.....	.....
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.70	729.0	30.08	764.0	47.9	8.8	85.5	5	8	.....	1	2	9	3	2	.....	7658	12324	5	1.68	42.7
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.28	743.7	30.06	763.5	56.2	13.4	77.6	2	1	1	2	4	2	.....	11	7	1840	2961	5	2.72	69.1
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	30.01	762.2	30.04	763.0	75.0	23.9	86.6	8	.....	2	1	6	5	4	3	.....	7707	12403	5	9.86	250.4
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.00	762.0	30.04	763.0	71.5	21.9	88.3	7	2	1	1	3	5	5	6	.....	4596	7396	4	7.28	184.9
Keokuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.42	747.3	30.07	763.8	54.7	12.6	81.6	4	2	3	5	3	.....	6	5	2	4810	7741	3	1.76	44.7
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	29.96	761.0	29.98	761.5	81.1	27.3	79.1	.....	2	.....	1	2	1	6	8	10	4160	6695	5	5.17	131.3
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.06	763.5	30.08	764.0	69.8	21.0	83.2	1	2	5	5	.....	2	1	14	.....	12438	20017	6	7.73	196.3
Knoxville	N. 35 56	W. 83 58	6.32 a.m	980	299	29.08	738.6	30.10	764.5	61.2	16.2	86.1	.....	2	.....	8	.....	1	.....	11	8	3579	5760	5	2.53	64.3
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.31	744.5	30.08	764.0	52.0	11.1	80.2	9	4	.....	1	14	.....	.....	1	1	4725	7604	4	4.92	125.0
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.20	741.7	30.08	764.0	55.9	13.3	82.0	4	4	.....	.....	4	2	.....	1	15	3355	5399	4	1.57	39.9
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.17	740.9	30.00	762.0	50.6	10.3	67.2	.....	.....	.....	.....	.....	6	.....	5	19	672	1081	2	0.04	1.0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for September, 1883.																					Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.																
						Actual.		Reduced.					Directions.									Total Movement.							
				Feet.	Metr's	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.		0–10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																											
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.77	756.1	30.08	764.0	62.2	16.8	83.3	1	4	.....	.....	.....	.....	.....	1	24	2202	3544		3	3.67	93.2
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.54	750.3	29.93	760.2	62.5	16.9	81.5	1	.....	4	.....	2	1	.....	12	10	3782	6086		2	0	0
Louisville	N. 38 15	W 85 45	6.25 a.m.	530	162	29.50	749.3	30.05	763.3	59.9	15.5	81.3	10	.....	2	2	6	2	1	5	2	5463	8791		4	0.32	8.1
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.41	747.0	30.09	764.3	61.7	16.5	79.6	2	.....	1	9	.....	..	1	10	7	2360	3798		6	5.57	141.5
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.43	747.5	30.08	764.0	51.8	11.0	84.3	3	3	1	9	3	2	7	1	1	6556	10551		5	2.03	51.6
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.04	763.0	30.05	763.3	71.0	21.7	88.8	5	4	3	4	1	2	1	9	1	11377	18309		6	12.69	322.3
Maginnis Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.70	652.8	30.10	764.5	45.3	7.4	58.6	.....	6	6	4	4	2	7	1	.....	5593	9001		2	0.66	16.8
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.36	745.7	30.08	764.0	49.9	9.9	78.2	.....	6	11	4	1	1	1	2	4	5583	8985		7	3.24	82.3
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.74	755.4	30.08	764.0	63.4	17.4	80.6	3	8	2	2	2	4	.....	4	5	3475	5592		3	1.05	26.7
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.34	745.2	30.08	764.0	53.2	11.8	82.4	7	3	3	8	2	2	4	1	.....	6874	11061		5	2.32	58.9
Mobile	N. 30 41	W. 88 02	6.16 a.m.	41	12	30.02	762.5	30.06	763.5	70.2	21.2	83.7	21	3	.....	.....	.....	1	1	3	1	3399	5470		4	0.96	24.4
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	29.85	758.2	30.08	764.0	67.7	19.8	82.4	3	2	1	1	2	1	5	1	14	2512	4091		4	0.22	5.6
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	29.07	738.4	30.06	763.5	44.3	6.8	86.2	6	3	.....	1	10	4	1	2	3	5385.f	8666.f		4	2.51	63.8
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.86	606.0	30.01	762.2	37.2	2.9	84.8	4	14	5	1	.....	2	3	1	.....	17665	28428		3	0.90	175.3
Nashville	N. 36 10	W. 86 47	6.21 a.m.	549	167	29.50	749.3	30.07	763.8	61.4	16.3	85.3	3	6	4	2	1	3	7	4	.....	3925	6316		5	2.23	56.6
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	29.98	761.5	30.09	764.3	55.0	12.8	83.5	8	5	1	4	3	.....	1	8	.....	5491	8892		5	2.43	61.7
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	30.08	764.0	30.13	765.3	57.9	14.4	81.3	9	3	3	2	.....	1	.....	5	7	3981	6408		5	3.24	82.3
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	29.98	761.5	30.03	762.7	74.9	23.8	76.9	5	.....	2	.....	.....	11	5	6	1	4066	6443		4	0.25	6.3
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.94	760.5	30.11	764.8	59.4	15.2	78.7	6	.....	6	4	3	.....	1	7	3	5519	8882		5	3.57	90.7
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	30.04	763.0	30.06	763.5	67.7	19.8	86.2	4	1	2	6	2	2	1	8	4	5612	9033		6	6.63	168.4
North Platte *a*	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.19	690.6	30.07	763.8	52.0	11.1	81.8	1	3	7	.....	2	.....	10	2	4	7365	11853		6	1.08	27.4
Olympia *a*	N. 47 03	W. 122 53	3.57 a.m.	36	11	29.98	761.5	30.02	762.5	50.2	10.1	91.4	.....	.....	.....	3	4	.....	.....	.....	22	1064	1712		3	2.24	56.9
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	28.94	735.1	30.11	764.8	54.6	12.6	84.8	5	6	1	.....	4	5	1	1	7	2385	3838		5	4.53	115.1
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.77	756.1	30.09	764.3	53.6	12.0	81.4	1	3	3	1	10	6	2	2	2	4964	7989		6	2.32	58.9
Palestine	N. 31 45	W. 95 40	5.45 a.m.	533	162	29.54	750.3	30.10	764.5	66.4	19.1	81.5	4	3	1	2	9	.....	3	8	.....	5255	8457		4	1.99	50.5
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.02	762.5	30.05	763.3	71.6	22.0	79.3	6	7	1	.....	.....	.....	3	12	1	4573	7359		5	0.32	8.1
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	30.02	762.5	30.12	765.0	59.9	15.5	89.7	6	4	1	7	2	1	.....	9	.....	5502	8854		5	4.24	107.7
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	18.05	458.5	30.03	762.7	27.0	−2.8	80.6	3	6	4	7	.....	.....	.....	10	.....	10817	17408		1	1.76	44.7
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	766	232	29.31	744.5	30.10	764.5	56.7	13.7	81.5	2	.....	2	1	1	1	.....	3	20	2565	4128		6	2.47	62.7
Poplar River *g*	N. 48 08	W. 105 10	5.07 a.m.	2030	619	.....	.....	.....	.....	47.4	8.6	64.5	.....	4	8	5	1	1	.....	3	.....	.....	.....		2	1.01	25.6
Port Huron	N. 43 00	W. 82 26	6.38 a.m.	633	193	29.39	746.5	30.06	763.5	52.9	11.1	87.1	1	5	2	3	6	4	6	3	.....	5537	8911		6	2.24	56.9
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	30.02	762.5	30.03	763.5	55.3	12.9	75.6	5	7	5	5	3	.....	1	3	1	4242	6827		4	2.68	68.1
Portland, Oreg	N. 45 32	W. 122 43	3.57 a.m.	67	20	29.94	760.5	30.01	762.2	54.4	12.4	86.1	4	4	2	2	3	.....	2	.....	13	2701	4347		2	0.67	17.0
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.85	631.2	29.95	760.7	59.5	10.3	59.4	.....	.....	6	12	10	.....	2	.....	.....	3647	5869		0	0.33	8.4
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	30.06	763.5	30.08	764.0	59.5	15.3	86.2	3	3	5	5	1	2	4	5	2	5221	8402		5	1.87	47.5
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	332	101	29.57	751.1	29.92	760.0	64.5	18.1	48.7	20	2	.....	.....	4	2	1	1	.....	4105	6606		0	1.04	26.4
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.48	748.8	30.02	762.5	50.5	10.3	84.4	4	3	.....	.....	2	1	5	13	2	1758	2828		2	0.62	15.7
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	29.83	757.7	29.90	759.4	62.2	16.8	70.8	1	4	.....	.....	4	18	.....	.....	3	3657	5885		1	0.90	22.9
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	583	178	29.48	748.8	30.09	764.3	59.0	15.0	80.4	5	2	4	2	7	3	.....	7	.....	7201	11589		3	0.01	0.3
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.54	750.3	29.58	751.3	43.1	6.2	88.2	4	3	.....	2	8	5	2	6	.....	9726	15652		9	4.48	113.8
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	801	244	29.22	742.2	30.07	763.8	49.8	9.9	82.8	2	9	2	3	4	8	1	.....	1	5300	8529		5	2.23	56.6
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.18	741.2	30.05	763.3	42.2	5.7	91.8	4	8	1	5	5	4	.....	1	2	5344	8600		4	1.57	39.9
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.70	652.8	29.95	760.7	62.0	16.7	42.9	1	3	.....	1	.....	6	5	2	12	3793	6104		2	0.13	3.3
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	29.83	757.7	29.90	759.4	64.9	18.3	79.8	5	5	2	2	1	1	4	10	.....	4105	6600		5	0	0
Sanford	N. 28 48	W. 81 23	6.42 a.m.	50*b*	50*b*	29.95	760.7	30.00	762.0	73.7	23.2	88.3	4	4	3	2	1	2	.....	10	4	4585	7379		5	3.43	87.1
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	29.42	747.3	30.09	764.3	57.6	14.2	77.5	2	.....	3	6	6	6	3	4	.....	8605	13848		5	4.07	103.4
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	30.08	764.0	30.11	764.8	60.9	16.1	76.8	1	7	3	3	2	1	7	6	.....	11386	18324		5	4.03	117.6
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.88	758.9	29.95	760.7	57.7	14.3	87.7	4	2	8	10	2	1	.....	.....	3	6779	10909		5	0.42	10.7
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	29.97	761.2	30.06	763.5	70.4	21.3	84.8	15	4	.....	4	2	4	1	.....	.....	4634	7457		5	2.55	64.8
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.49	672.8	30.10	764.5	42.3	5.7	76.6	.....	1	22	6	.....	.....	.....	1	.....	3645	5866		2	0.79	20.1
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	29.83	757.7	30.07	763.8	64.9	18.3	86.2	1	3	3	1	5	5	1	8	3	2766	4451		4	1.29	32.8
Sill, Fort	N. 34 40	W. 98 23	5.34 a.m.	1200	366	28.85	733.0	30.08	764.0	62.1	16.7	77.9	13	1	.....	2	5	.....	1	1	7	5049	9091		4	1.44	36.6
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.78	756.4	29.84	757.9	50.0	10.0	83.1	.....	1	5	1	2	1	14	1	5	5655	9101		7	8.13	206.5
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	29.99	761.7	30.03	762.7	69.0	20.9	88.9	7	2	3	3	3	.....	2	10	.....	7962	12813		5	8.69	220.7
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	28.02	711.7	30.09	763.5	47.6	8.7	74.8	4	1	1	4	3	.....	2	1	14	1705	2744		2	0.08	2.0
Springfield, Ill	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.41	747.0	30.08	764.0	54.9	12.7	76.9	5	1	1	4	7	2	6	4	.....	6039	9719		3	1.06	26.9
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	27.08	687.8	30.04	763.0	61.6	16.4	82.4	.....	2	3	8	4	7	3	.....	3	5648	9089		4	14.68	372.9
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	.....	.....	.....	.....	60.6	15.9	51.5	.....	.....	.....	.....	4	16	1	.....	9	.....	.....		2	inap.	inap.
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.39	746.5	30.07	763.8	55.8	13.2	78.4	7	3	2	3	4	1	5	4	1	5840	9398		5	2.78	70.6
Unalashka	N 53 53	W. 166 32	1.02 a.m.	13	4	29.03	752.6	29.65	753.1	44.5	6.9	79.6	1	8	.....	10	3	8	.....	.....	.....	10130	16302		9	9.75	247.6
Verde, Fort	N. 34 33	W. 111 52	4.40 a.m.	?	?	.....	.....	.....	.....	59.5	15.3	40.0	7	12	3	1	2	4	.....	1	.....	.....	.....		1	inap.	inap.
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	29.83	757.7	30.08	764.0	66.1	18.9	81.4	5	2	.....	1	5	4	3	2	8	2324	3740		3	0.84	21.3
Washington, D.C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	30.02	762.5	30.13	765.3	59.8	15.4	82.4	4	3	1	2	5	.....	.....	8	7	2951	4749		6	4.33	110.0
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.16	664.5	29.98	761.5	51.4	10.8	76.2	3	5	10	5	.....	1	4	1	1	5903	9597		4	1.35	34.3
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	30.00	762.0	30.05	763.3	68.9	20.5	87.8	4	3	2	3	.....	3	2	7	6	4288	6901		6	16.53	419.9
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.78	731.0	30.08	764.0	51.4	10.8	82.4	7	7	2	1	4	4	3	1	1	6386	10277		4	3.98	101.1
Yuma	N. 32 45	W 114 36	4.30 a.m.	141	43	29.65	753.1	29.79	756.7	73.6	23.1	61.9	2	1	.....	2	.....	1	.....	7	17	2605	4192		1	0.13	3.3
Sub-Series.																													
Bluefields	N. 12 00	W. 83 43	6.31 a.m.	.....	.....	.....	.....	.....	.....	78.5	25.8	.....	4	17	.....	.....	.....	.....	4	4	1	.....	.....		6	3.42	86.9
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.06	560.4	.....	.....	53.2	11.8	69.7	2	3	2	3	2	.....	2	.....	16	.....	.....		8	0.81	20.5
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	.....	.....	29.99	761.7	77.8	25.4	87.4	11	1	1	.....	.....	1	3	.....	13	2633	4237		8	3.63	92.2
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.02	762.5	30.02	762.5	79.6	26.4	80	.....	.....	.....	1	1	24	4	.....	.....	.....	.....		4	2.33	59.2
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.41	747.0	29.97	761.2	78	25.6	88	1	.....	.....	.....	11	.....	.....	2	16	.....	.....		9	7.33	186.2
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	76.6	24.8	89.7	.....	3	.....	2	2	6	2	15	.....	.....	.....		5	5.78	146.8
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	29.92	760.0	29.99	761.7	36.8	2.7	94.8	7	6	9	7	1	.....	.....	.....	.....	8060	12971		5	3.03	92.2

OCEAN SQUARE DATA FOR SEPTEMBER, 1883.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5° W. 22.5°	29.99	761.7	81.9	27.7	1			1	1	1	2	21		3	2.0
12.5 27.5	30.02	762.5	82.3	27.9	1			1	1	1	3	19		4	1.8
12.5 32.5	30.02	762.5	82.7	28.2	1			1		2	7	10		9	1.8
12.5 37.5	30.03	762.7	83.2	28.4					1	1	5	11		12	1.6
12.5 42.5	30.05	763.3	83.4	28.6					1	3	8	5		13	2.2
12.5 47.5	30.05	763.3	83.8	28.8					1	5	7	4		13	2.0
12.5 52.5	30.04	763.0	84.2	29.0	1				1	8	11	2		7	1.8
17.5 22.5	30.04	763.0	80.8	27.1	1				1	2	2	20		4	2.3
17.5 27.5	30.06	763.5	81.1	27.3	1				1	3	3	18		4	2.3
17.5 32.5	30.07	763.8	81.7	27.6	1				2		6	11		10	1.7
17.5 37.5	30.07	763.8	82.1	27.8					2		7	9		12	2.0
17.5 42.5	30.08	764.0	82.5	28.1					1	4	9	3		13	2.1
17.5 47.5	30.08	764.0	82.8	28.2					3	3	8	3		13	2.1
17.5 52.5	30.06	763.5	83.4	28.6						6	11	5		8	1.8
17.5 57.5	30.03	762.7	83.5	28.6					1	5	19	3		2	2.1
22.5 22.5	30.09	764.3	79.0	26.1	1					2	5	18		4	2.5
22.5 27.5	30.11	764.8	79.5	26.4	1				1	3	4	16		6	2.7
22.5 32.5	30.12	765.0	80.4	26.9					2	1	6	12	1	9	2.0
22.5 37.5	30.11	764.8	81.1	27.3					2	2	8	9		8	2.0
22.5 42.5	30.11	764.8	81.7	27.6	1				3	4	13	2		7	2.2
22.5 47.5	30.09	764.3	81.9	27.7	1		1	1	2	5	11	2		7	2.0
22.5 52.5	30.10	764.5	82.5	28.1					1	10	8	5		6	2.1
22.5 57.5	30.07	763.8	82.7	28.2				1		8	13	6		2	2.1
22.5 62.5	30.06	763.5	82.8	28.2	2			1	1	9	13	4			2.3
22.5 67.5	30.05	763.3	82.8	28.2	1			1	1	11	11	5			2.1
22.5 72.5	30.03	762.7	82.6	28.1	1			2	2	11	8	6			2.2
27.5 22.5	30.14	765.5	77.2	25.1	3					4	2	17		4	2.7
27.5 27.5	30.15	765.8	77.5	25.3	2			1	3	2	3	14		5	2.4
27.5 32.5	30.10	760.1	78.4	25.8	1			1	3	1	6	12		6	2.2
27.5 37.5	30.16	766.1	79.2	26.2	1			2	3	1	8	9		6	2.4
27.5 42.5	30.14	765.5	80.0	26.7	1		1	3	1	4	12	2		6	2.4
27.5 47.5	30.12	765.0	80.8	27.1	1	3		1	2	6	9	2		6	2.4
27.5 52.5	30.13	765.3	81.2	27.3		1		1	1	9	11	3		4	2.1
27.5 57.5	30.11	764.8	81.5	27.5	2			1	2	11	7	4		3	2.1
27.5 62.5	30.09	764.3	81.8	27.7	1	1		3	1	11	8	5			2.2
27.5 67.5	30.08	764.0	81.7	27.6	1		1	2		16	4	5	1		2.2
27.5 72.5	30.04	763.0	81.5	27.5	4			4	7	5	6	4			2.0
27.5 77.5	30.00	762.0	80.2	26.8	5	2	1	2	5	5	5	5			1.8
32.5 12.5	30.14	765.5	73.4	23.0	6	1		7				16			1.6
32.5 17.5	30.17	766.3	74.1	23.4	5		1	11			1	12			1.6
32.5 22.5	30.17	766.3	74.5	23.6	2	1	1	7	3	1		15			2.3
32.5 27.5	30.17	766.3	74.7	23.7	3	1	1	4	5		3	12		1	2.0
32.5 32.5	30.17	766.3	75.5	24.2	4		2	5	1	4	4	7		3	2.4
32.5 37.5	30.17	766.3	76.3	24.6	4	2	2	4	2	5	4	4		3	2.1
32.5 42.5	30.16	766.1	76.9	24.9	3	5	1	3	2	3	9	1		3	2.6
32.5 47.5	30.15	765.8	77.7	25.4	2	5	3	1	2	6	4	4		3	2.5
32.5 52.5	30.14	765.5	78.6	25.9	1	7	1	1	4	6	3	5		2	2.3
32.5 57.5	30.14	765.5	79.4	26.3	1	3		4	5	8	3	6			2.1
32.5 62.5	30.10	764.5	79.7	26.5	[illegible]	3	2	3	5	9	5	2			2.1
32.5 67.5	30.07	763.8	79.5	26.4			4	4	7	7	2	6			2.1
32.5 72.5	30.04	763.0	78.8	26.0	6	1		2	7	6	1	6	1		2.6
32.5 77.5	30.07	763.8	73.6	23.1	5	2		5	2	1	1	14			2.1
37.5 12.5	30.13	765.3	69.8	21.0	10	2	1	10	1			6			2.8
37.5 17.5	30.15	765.8	70.7	21.5	5	4	1	8	2		1	9			2.6
37.5 22.5	30.17	766.3	71.5	21.9	5	4		9	1	1	1	9			2.2
37.5 27.5	30.18	766.0	71.5	21.9	5	2	3	6	2		2	10			2.1
37.5 32.5	30.16	766.1	72.0	22.2	4	8		6	2	4	1	4		1	2.1
37.5 37.5	30.13	765.3	71.9	22.2	2	7	2	3	5	2	4	3		2	2.2
37.5 42.5	30.11	764.8	72.0	22.2	2	5	3	3	7	1	1	6		2	2.6
37.5 47.5	30.11	764.8	72.1	22.3	5	4	2	2	8		4	3		2	2.8
37.5 52.5	30.11	764.8	72.6	22.6	4	5		3	9	3	1	5			2.7
37.5 57.5	30.13	765.3	73.7	23.2	3	6		3	9	3	1	5			2.9
37.5 62.5	30.10	764.5	73.6	23.1	3	1	3	5	6	5	4	3			2.5
37.5 67.5	30.09	764.3	73.0	22.8	4	1	3	5	7	2	2	6			2.7
37.5 72.5	30.08	764.0	70.0	21.1	4	2	2	3	3	3	2	11			3.1
42.5 12.5	30.04	763.0	66.7	19.3	5	8		8	5			4			3.0
42.5 17.5	30.07	763.8	66.6	18.9	5	10		10	2			3			2.9
42.5 22.5	30.08	764.0	67.2	19.6	6	7	3	9	4			1			3.2
42.5 27.5	30.07	763.8	67.1	19.5	4	8	4	10	2			2			3.1
42.5 32.5	30.05	763.3	67.7	19.8	2	11	2	7	5	2		1			3.1
42.5 37.5	30.03	762.7	67.4	19.7	2	14		7	5	1		1			3.3
42.5 42.5	30.03	762.7	66.0	18.9	2	10	3	5	5	3	2				3.3
42.5 47.5	30.06	763.5	63.0	17.2	6	8		5	8	2		1			3.2
42.5 52.5	30.07	763.8	63.6	17.6	5	8	1	4	6	1	3	2			2.8
42.5 57.5	30.10	764.5	63.3	17.4	5	9	1	3	6	2	2	2			3.0
42.5 62.5	30.12	765.0	60.6	15.9	5	5	2	6	3	2	2	5			2.9
42.5 67.5	30.08	764.0	58.6	14.8	6	3	2	4	6	2	2	5			2.3
47.5 12.5	29.90	759.4	61.9	16.6	4	8	2	8	6	2					3.6
47.5 17.5	29.92	760.0	61.7	16.5	5	10	3	5	6	1					3.8
47.5 22.5	29.93	760.2	61.5	16.4	2	10	4	10	3	1					4.0
47.5 27.5	29.90	759.4	61.5	16.4	1	12	5	6	3	2		1			4.1
47.5 32.5	29.89	759.2	61.3	16.3	1	11	2	8	3	5					4.1
47.5 37.5	29.92	760.0	61.1	16.2	3	15		7	1	3	1				4.5
47.5 42.5	29.95	760.7	57.9	14.4	4	9	3	8	4		1	1			3.8
47.5 47.5	29.98	761.5	54.4	12.4	5	4	6	9	5	1					3.5
52.5 12.5	29.77	756.1	58.5	14.7	4	6	3	4	5	6	2				3.8
52.5 17.5	29.81	757.2	57.7	14.3	3	9	1	7	4	4	2				4.1
52.5 22.5	29.84	757.9	57.4	14.1	1	8	5	7	2	6		1			4.2
52.5 27.5	29.78	756.4	56.3	13.5		7	4	9	1	4	4	1			4.4
52.5 32.5	29.77	756.1	55.2	12.9	2	6	6	5	3	2	4	2			3.9
52.5 37.5	29.76	756.4	53.9	12.2	3	8	3	7	4		1	3		1	4.0
52.5 42.5	29.78	756.4	51.6	10.9	3	9	4	4	6	1	1	1		1	3.7
52.5 47.5	29.79	756.7	49.6	9.8	4	10	3	5	4	1		2		1	3.4
57.5 12.5	29.76	755.9	54.5	12.5	6	2		6	5	4	6	1			3.5
57.5 17.5	29.75	755.6	53.8	12.1	3	4	2	6	4	4	5	2			3.7
57.5 22.5	29.73	755.1	52.9	11.6	4	4	2	6	3	3	7		1		3.6
57.5 27.5	29.70	754.4	51.9*b*	11.1*b*	2	4	3	6	4		7	3		1	3.8
57.5 32.5	29.68	753.9	50.6*e*	10.3*e*		5	3	9	2		3	6		2	3.8
57.5 37.5	29.66	753.4	49.1*f*	9.5*f*	4	5	2	6	4			5		4	3.8
57.5 42.5	29.68	753.9			4	6		4	2	3		4		7	3.9
57.5 47.5	29.64	752.8			3	7	1	2	2	3		2		10	3.6

IVIGTUT, GREENLAND (N. 61° 12′, W. 48° 00′).

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs prsec.	Wind. Force 0–10	Clouds. Amount. Upper. 0–10	Clouds. Amount. Lower. 0–10	Clouds. Direction. Upper From	Clouds. Direction. Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Rainfall or melted snow in past 24 hours. Mill.	WEATHER
1883.																		
May 1	29.74	755.3	29.76	755.8	46.9	8.3		sse.			4–7		10					raining.
2	30.11	764.9	30.13	765.4	36.5	2.5		calm.			0		9					
3	30.00	761.9	30.02	762.4	33.4	0.8		nw.			4		2					
4	30.10	764.5	30.12	765.0	33.6	0.9		calm.			0		0					
5	30.13	765.3	30.15	765.8	34.5	1.4		calm.			0		0					
6	30.26	768.7	30.28	769.2	42.4	5.8		calm.			0		8					
7	30.35	771.0	30.37	771.5	44.2	6.8		calm.			0		8					
8	30.20	767.0	30.22	767.5	40.3	4.6		calm.			0		9					
9	29.73	755.1	29.75	755.6	45.5	7.5		se.			6		10					
10	30.01	762.2	30.03	762.7	46.0	7.8		se.			2		9					
11	30.06	763.4	30.08	763.9	38.3	3.5		calm.			0		0					
12	30.12	765.0	30.14	765.5	32.0	0.0		calm.			0		5					
13	30.10	764.5	30.12	765.0	37.9	3.3		calm.			0		6					
14	29.78	756.4	29.80	756.9	41.5	5.3		calm.			0		10					snowing.
15	29.26	743.1	29.28	743.6	35.8	2.1		w.			2		10					rain and snow.
16	29.79	756.7	29.81	757.2	37.9	3.1		calm.			0		10					snowing.
17	29.83	757.7	29.85	758.2	37.4	3.0		calm.			0		0					
18	29.97	761.1	29.98	761.6	40.3	4.6		calm.			0		9					
19	29.78	756.5	29.80	757.0	35.8	2.1		nw.			6		9					
20	29.74	755.4	29.76	755.9	38.8	3.8		calm.			0		9					
21	29.50	749.4	29.52	749.9	40.8	4.9		sse.			4–7		10					raining.
22	29.64	752.9	29.66	753.4	35.1	1.7		sw.			4		10					
23	29.72	754.9	29.74	755.4	32.4	0.8		nw.			6		6					
24	29.79	756.6	29.81	757.1	30.5	2.5		nw.			6		3					
25	29.61	752.0	29.63	752.5	41.4	5.2		calm.			0		0					
26	29.53	750.0	29.55	750.5	36.9	2.7		w.			2		1					
27	29.63	752.5	29.65	753.0	37.8	3.2		nw.			4		8					
28	29.62	752.3	29.64	752.8	30.0	2.2		calm.			0		0					
29	29.66	753.3	29.68	753.8	35.4	1.9		nw.			2		10					foggy.
30	29.90	759.5	29.92	760.0	39.9	4.4		calm			0		10					
31	29.88	759.0	29.90	759.5	44.2	6.8		calm.			0		9					
Mean	29.85	758.3	29.87	758.8	38.7	3.7							6.5					
June 1	29.98	761.6	30.00	762.1	44.2	6.8		s.			2–4		10					raining.
2	29.80	757.0	29.82	757.5	44.8	7.1		se.			2		10					raining.
3	29.75	756.5	29.80	757.0	41.2	5.1		calm.			0		5					
4	29.66	753.3	29.68	753.8	45.3	7.4		calm.			0		10					
5	29.74	755.4	29.76	755.9	37.0	2.8		nw.			4		7					
6	29.68	753.9	29.70	754.4	36.3	2.4		n.			6		7					
7	29.80	756.9	29.82	757.4	40.3	4.6		n.			2		7					
8	29.58	751.2	29.60	751.7	41.5	5.3		se.			2–4		10					snowing.
9	29.47	748.6	29.49	749.1	44.4	6.9		calm.			0		10					raining.
10	29.65	753.0	29.67	753.5	41.0	5.0		calm.			0		10					
11	29.86	758.4	29.88	758.9	40.5	4.7		calm.			0		10					
12	30.07	763.7	30.09	764.2	40.6	4.8		nw.			2		10					foggy.
13	30.02	762.4	30.04	762.9	42.4	5.8		calm.			0		10					foggy.
14	29.87	758.6	29.89	759.1	49.6	9.8		sse.			6–8		10					raining.
15	29.65	753.0	29.67	753.5	57.4	14.1		se.			6–8		10					raining.
16	30.06	763.6	30.08	764.1	44.1	6.7		calm.			0		10					
17	30.10	764.4	30.12	764.9	40.3	4.6		sw.			4		10					raining.
18	30.03	762.7	30.05	763.2	46.0	7.8		calm.			0		10					
19	30.00	762.1	30.02	762.6	42.3	5.7		calm.			0		10					raining.
20	29.71	754.7	29.73	755.2	42.8	6.0		calm.			0		0					
21	29.90	759.4	29.92	759.9	40.9	8.3		calm.			0		0					
22	30.07	763.8	30.09	764.3	51.6	10.9		n.			2		1					
23	30.05	763.3	30.07	763.8	53.1	11.7		calm.			0		7					
24	29.97	761.2	29.99	761.7	58.6	14.8		s.			2		8					
25	29.85	758.3	29.87	758.8	48.6	9.2		calm.			0		10					
26	29.84	758.0	29.86	758.5	46.6	8.1		nw.			2		9					
27	29.78	756.4	29.80	759.9	42.3	5.7		nw.			6		6					
28	29.51	749.0	29.53	750.1	43.5	6.4		calm.			0		0					
29	29.57	751.1	29.59	751.6	43.7	6.5		nw.			2		2					
30	29.67	753.6	29.69	754.1	50.0	10.0		sse.			4		10					
Mean	29.82	757.5	29.84	758.0	45.0	7.2							7.6					
July 1	29.70	754.4	29.72	754.9	48.6	9.2		calm.			0		10					raining.
2	29.60	751.7	29.62	752.2	45.9	7.7		calm.			0		10					raining.
3	29.56	750.8	29.58	751.3	46.4	8.0		calm.			0		9					
4	29.58	751.4	29.60	751.9	46.4	8.0		calm.			0		10					raining.
5	29.75	755.7	29.77	756.2	44.2	6.8		calm.			0		9					
6	29.91	759.7	29.93	760.2	45.7	7.6		s.			2		8					
7	29.87	758.8	29.89	759.3	47.3	8.5		s.			4		10					
8	29.71	754.7	29.73	755.2	46.0	7.8		s.			2		10					
9	29.65	753.2	29.67	753.7	47.3	8.5		calm.			0		10					
10	29.80	756.9	29.82	757.4	48.4	9.1		calm.			0		10					
11	29.98	761.4	30.00	761.9	49.3	9.6		calm.			0		5					
12	30.00	761.9	30.02	762.4	51.8	11.0		calm.			0		4					
13	30.06	763.5	30.08	764.0	58.6	14.8		s.			1		10					
14	30.11	764.7	30.13	765.2	47.7	8.7		calm.			0		10					
15	30.06	763.5	30.08	764.0	48.6	9.2		calm.			0		4					
16	29.98	761.5	30.00	762.0	49.8	9.9		calm.			0		10					
17	30.00	761.9	30.02	762.4	50.0	10.0		calm.			0		10					
18	30.00	762.0	30.02	762.5	53.6	12.0		calm.			0		10					
19	29.86	758.4	29.88	758.9	55.4	13.0		calm.			0		9					
20	29.89	759.2	29.91	759.7	52.0	11.1		w.			4		9					
21	29.77	756.2	29.79	756.7	47.8	8.8		calm.			0		10					
22	29.77	756.2	29.79	756.7	46.2	7.9		calm.			0		10					foggy.
23	29.76	755.9	29.78	756.4	55.2	12.9		s.			2		10					
24	29.94	760.5	29.96	761.0	47.8	8.8		calm.			0		10					
25	29.81	757.2	29.83	757.7	43.5	6.4		calm.			0		10					foggy.
26	29.69	754.1	29.71	754.6	47.8	8.8		calm.			0		1					
27	29.66	753.3	29.68	753.8	45.3	7.4		calm.			0		0					
28	29.71	754.5	29.73	755.0	50.2	10.1		calm.			0		8					
29	29.91	759.7	29.93	760.2	51.4	10.8		calm.			0		8					
30	30.03	762.7	30.05	763.2	54.5	12.5		calm.			0		9					
31	30.07	763.8	30.09	764.3	47.1	8.4		calm.			0		10					foggy.
Mean	29.84	758.0	29.86	758.5	49.1	9.5							8.5					

IVIGTUT—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Velocity. Miles perhour	Metrs prsec.	Force 0-10	Clouds. Amount. Upper. 0-10	Lower. 0-10	Direction. Up'er From	Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Mill.	WEATHER.
August 1	29.89	759.1	29.91	759.6	41.9	5.5		n.			2		10					foggy.
2	29.76	756.0	29.78	756.5	46.4	8.0		calm.			0		1					
3	29.80	756.9	29.82	757.4	41.0	5.0		calm.			0		10					foggy.
4	29.95	760.6	29.97	761.1	41.0	5.0		calm.			0		10					foggy.
5	29.97	761.3	29.99	761.8	49.3	9.6		calm.			0		0					
6	29.91	759.8	29.93	760.3	50.9	10.5		calm.			0		2					
7	29.99	761.7	30.01	762.2	47.3	8.5		calm.			0		1					
8	29.91	759.7	29.93	760.2	42.6	5.9		calm.			0		10					foggy.
9	29.81	757.1	29.83	757.6	42.8	6.0		calm.			0		10					foggy.
10	30.01	762.2	30.03	762.7	45.9	7.7		calm.			0		0					
11	29.93	760.1	29.95	760.6	43.0	0.1		calm.			0		10					foggy.
12	29.87	758.8	29.89	759.3	47.1	8.4		calm.			0		10					
13	29.82	757.3	29.84	757.8	45.7	7.6		calm.			0		10					
14	29.60	751.9	29.62	752.4	47.7	8.7		calm.			0		10					
15	29.30	744.2	29.32	744.7	47.1	8.4		calm.			0		10					foggy.
16	29.06	738.2	29.08	738.7	42.6	5.9		n.			4		10					
17	29.41	747.0	29.43	747.5	41.9	5.5		n.			4		8					
18	29.51	749.6	29.53	750.1	41.9	5.5		n.			2		0					
19	29.68	753.9	29.70	754.4	41.5	5.3		calm.			0		8					
20	29.82	757.3	29.84	757.8	39.2	4.0		calm.			0		1					
21	20.77	756.2	29.79	756.7	38.3	3.5		calm.			0		10					foggy.
22	29.02	752.4	29.04	752.9	42.7	6.5		calm.			0		10					
23	29.51	749.6	29.53	750.1	45.1	7.3		calm.			0		10					raining.
24	29.45	747.9	29.47	748.4	41.0	5.0		calm.			0		10					foggy.
25	29.04	752.9	29.66	753.4	42.4	5.8		w.			2		10					foggy.
26	29.60	751.9	29.62	752.4	42.6	5.9		nw.			2		8					
27	29.79	756.7	29.81	757.2	42.8	6.0		calm.			0		10					foggy.
28	29.86	758.4	29.88	758.9	41.0	5.0		calm.			0		6					
29	29.95	760.6	29.97	761.1	42.1	5.6		calm.			0		5					
30	29.96	760.9	29.98	761.4	46.2	7.9		w.			2		9					
31	29.95	760.6	29.97	761.1	42.3	5.7		calm.			0		2					
Mean	29.74	755.5	29.76	756.0	43.7	6.5							7.1					
September 1	29.81	757.2	29.83	757.7	47.1	8.4		se.			2		10					
2	29.66	753.3	29.68	753.8	44.2	6.8		se.			2		10					
3	29.44	747.8	29.46	748.3	42.6	5.9		calm.			0		10					raining.
4	29.38	746.3	29.40	746.8	43.5	6.4		calm.			0		10					raining.
5	29.39	746.5	29.41	747.0	41.4	5.2		calm.			0		10					raining.
6	29.47	748.5	29.49	749.0	41.5	5.3		se.			6		10					raining.
7	29.20	741.7	29.22	742.2	46.0	7.8		se.			2		10					
8	29.32	744.6	29.34	745.1	41.9	5.5		nw.			4		9					
9	29.61	752.2	29.63	752.7	37.8	3.2		calm.			0		10					snow and fog.
10	29.54	750.2	29.56	750.7	36.7	2.6		calm.			0		9					
11	29.19	741.3	29.21	741.8	34.3	1.3		calm.			0		2					
12	29.14	740.2	29.16	740.7	36.9	2.7		calm.			0		3					
13	29.40	746.8	29.42	747.3	37.9	3.3		calm.			0		0					
14	29.67	753.7	29.69	754.2	38.1	3.4		nw.			2		10					
15	29.76	755.8	29.78	756.3	38.3	3.5		calm.			0		10					foggy.
16	29.90	759.4	29.92	759.9	37.2	2.9		calm.			0		10					
17	29.96	760.9	29.98	761.4	38.7	3.7		calm.			0		10					foggy.
18	29.96	761.0	29.98	761.5	48.9	9.4		se.			2		10					raining.
19	29.96	761.0	29.98	761.5	54.1	12.3		calm.			0		10					raining.
20	30.20	767.0	30.22	767.5	42.4	5.8		calm.			0		3					
21	30.02	762.5	30.04	763.0	39.7	4.3		calm.			0		5					
22	29.92	760.0	29.94	760.5	36.7	2.6		calm.			0		1					
23	29.51	749.5	29.53	750.0	32.9	0.5		calm.			0		10					foggy.
24	29.61	752.0	29.63	752.5	39.7	4.3		calm.			0		10					raining.
25	29.65	753.2	29.67	753.7	39.2	4.0		calm.			0		10					raining.
26	29.12	739.7	29.14	740.2	47.1	8.4		se.			6-7		10					raining.
27	29.09	738.9	29.11	739.4	41.2	5.1		s.			4-6		10					raining.
28	29.57	751.0	29.59	751.5	41.0	5.0		s.			4		10					snowing.
29	29.82	757.3	29.84	757.8	45.9	7.7		s.			6-9		10					raining.
30	29.84	757.9	29.86	758.4	36.1	2.3		calm.			0		9					
Mean	29.60	751.9	29.62	752.4	41.0	5.0							8.4					

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

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Velocity. Miles perhour	Metrs prsec.	Force 0-10	Clouds. Amount. Upper. 0-10	Lower. 0-10	Direction. Up'er From	Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Mill.	WEATHER.
July 1	29.70	754.3	29.74	755.5	55.2	12.9		se.			6		4					
2	29.67	753.5	29.71	754.7	41.5	5.3		calm.			0		6					
3	29.43	747.4	29.47	748.6	56.5	13.6		se.			4		4					
4	29.34	745.1	29.38	746.3	54.3	12.4		se.			6		7					
5	29.72	755.0	29.77	756.2	37.9	3.3		s.			2		9					foggy.
6	29.63	752.7	29.68	753.9	40.3	4.6		w.			2		7					
7	29.78	756.5	29.83	757.7	50.0	10.0		w.			2		3					
8	29.71	754.6	29.76	755.8	45.0	7.2		calm.			0		1					
9	29.71	754.7	29.76	755.9	56.5	13.6		se.			6		5					
10	29.81	757.1	29.85	758.3	56.1	13.4		se.			6		2					
11	29.94	760.5	29.99	761.7	57.6	14.2		se.			4		2					
12	30.02	762.5	30.07	763.7	57.6	14.2		calm.			0		1					
13	29.95	760.6	29.99	761.8	43.5	6.4		sw.			1		8					raining.
14	29.78	756.5	29.83	757.7	39.6	4.2		sw.			6		10					raining.
15	30.02	762.6	30.07	763.8	46.0	7.8		e.			4		8					raining.
16	29.95	760.8	30.00	762.0	40.3	4.6		calm.			0		7					
17	29.93	760.1	29.97	761.3	43.2	6.2		calm.			0		1					
18	29.94	760.5	29.99	761.7	47.5	8.6		calm.			0		3					
19	29.76	755.9	29.81	757.1	47.1	8.4		s.			2		3					
20	29.56	750.9	29.61	752.1	41.4	5.2		n.			2		9					foggy.
21	29.58	751.2	29.62	752.4	41.0	5.0		sw.			2		7					
22	29.71	754.6	29.76	755.8	43.9	6.6		calm.			0		7					foggy.
23	29.52	749.9	29.57	751.1	42.1	5.6		calm.			0		7					
24	29.86	758.4	29.91	759.6	46.0	7.8		e.			4		7					
25	29.85	758.2	29.90	759.4	36.7	2.6		calm.			0		10					raining.
26	29.97	761.1	30.01	762.3	39.6	4.2		calm.			0		9					foggy.
27	29.83	755.7	29.88	758.9	40.6	4.8		calm.			0		2					
28	29.65	753.2	29.70	754.4	48.2	9.0		e.			2		7					
29	29.93	760.1	29.97	761.3	39.7	4.3		s.			2		8					foggy.
30	30.19	766.7	30.23	767.9	37.9	3.3		s.			2		9					foggy.
31	30.26	768.6	30.31	769.8	38.3	3.5		n.			2		8					foggy.
Mean	29.80	756.8	29.84	758.0	45.5	7.5							5.8					

JACOBSHAVN—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Velocity. Miles perhour	Metrs prsec.	Force 0–10	Clouds. Amount. Upper. 0–10	Lower. 0–10	Direction. Up'er From	Lo'er From	Rainfall in past 24 hours. Inch.	Mill.	WEATHER.
1883.																		
August 1	30.07	763.7	30.11	764.9	39.7	4.3		calm			0		0					
2	29.93	760.2	29.98	761.4	40.3	4.6		w.			2		1					
3	29.80	758.5	29.91	759.7	39.9	4.4		calm			0		7					
4	29.89	759.3	29.94	760.5	41.7	5.4		calm			0		9					raining.
5	29.90	759.5	29.95	760.7	45.9	7.7		s			2		8					foggy.
6	29.93	760.2	29.98	761.4	47.5	8.6		calm			0		7					
7	29.99	761.8	30.04	763.0	51.4	10.8		calm			0		7					
8	30.01	762.2	30.06	763.4	39.2	4.0		calm			0		6					
9	29.97	761.1	30.01	762.3	39.6	4.2		calm			0		1					
10	29.93	760.2	29.98	761.4	44.2	6.8		calm			0		0					
11	29.71	754.5	29.75	755.7	50.4	10.2		se.			4		1					
12	29.70	754.4	29.75	755.6	40.8	4.9		calm			0		5					
13	29.82	757.5	29.87	758.7	40.3	4.6		calm			0		6					
14	29.67	753.7	29.72	754.9	43.0	6.1		e.			4		2					
15	29.45	748.1	29.50	749.3	41.4	5.2		s.			2		6					
16	29.22	742.2	29.27	743.4	37.0	2.8		s.			2		7					foggy.
17	29.54	750.4	29.59	751.6	31.6	— 0.2		n.			7		8					
18	29.68	753.9	29.73	755.1	31.3	— 0.4		calm			0		4					
19	29.65	753.0	29.69	754.2	35.2	1.8		s.			2		7					
20	29.77	756.1	29.82	757.3	39.7	4.3		w.			2		6					
21	29.77	756.1	29.82	757.3	42.1	5.6		calm			0		4					
22	29.67	753.7	29.72	754.9	38.3	3.5		calm			0		0					
23	29.62	752.4	29.67	753.6	42.4	5.8		ese.			2		0					
24	29.63	752.7	29.68	753.9	49.3	9.6		se.			6		2					
25	29.61	752.2	29.66	753.4	38.8	3.8		e.			2		3					
26	29.76	755.8	29.80	757.0	37.8	3.2		w.			2		4					
27	29.73	755.2	29.78	756.4	38.1	3.4		calm			0		1					
28	29.67	753.5	29.71	754.7	39.9	4.4		e.			6		2					
29	29.89	759.2	29.94	760.4	41.5	5.3		ese.			2		8					
30	30.00	762.0	30.05	763.2	38.8	3.8		calm			0		7					
31	29.91	759.8	29.96	761.0	38.3	3.5		e.			7		0					
Mean	29.77	756.2	29.84	757.4	40.8	4.9							4.2					
September 1	29.74	755.3	29.78	756.5	38.5	3.6		calm			0		1					
2	29.66	753.3	29.71	754.5	37.2	2.9		calm			0		3					
3	29.50	749.2	29.54	750.4	37.8	3.2		e.			4		3					
4	29.38	746.3	29.43	747.5	38.5	3.6		n.			2		4					
5	29.14	740.2	29.19	741.4	41.7	5.4		e.			4		8					
6	29.58	751.3	29.63	752.5	37.4	3.0		calm			0		8					raining.
7	29.14	740.1	29.19	741.3	36.7	2.6		s.			2		2					
8	29.13	739.8	29.17	741.0	36.7	2.6		calm			0		6					
9	29.26	743.3	29.31	744.5	39.9	4.4		e.			4		8					
10	29.67	753.5	29.71	754.7	47.3	8.5		s.			4		2					
11	29.46	748.2	29.50	749.4	29.5	— 1.4		calm			0		1					
12	29.45	748.1	29.50	749.3	25.5	— 3.6		e.			2		1					
13	29.43	747.5	29.48	748.7	31.6	— 0.2		ese.			4		9					snowing.
14	29.82	757.3	29.86	758.5	33.1	0.6		calm			0		4					
15	29.81	757.2	29.86	758.4	39.6	4.2		e.			4		2					
16	29.90	759.4	29.95	760.6	44.2	6.8		se.			6		3					
17	29.97	761.1	30.01	762.3	49.3	9.6		n.			2		4					
18	29.95	760.8	30.00	762.0	35.0	2.0		calm			0		8					
19	30.00	762.1	30.05	763.3	40.3	4.6		calm			0		7					
20	30.23	767.9	30.28	769.1	45.7	7.6		calm			0		9					raining.
21	30.10	764.5	30.15	765.7	47.5	8.6		e.			2		7					
22	29.86	758.5	29.91	759.7	35.2	1.8		s.			2		10					raining.
23	29.60	751.9	29.65	753.1	34.0	1.1		s.			2		1					
24	29.48	748.9	29.53	750.1	34.9	1.6		calm			0		7					
25	29.58	751.2	29.62	752.4	34.2	1.2		calm			0		8					
26	29.39	746.4	29.43	747.6	34.9	1.6		e.			2		0					
27	28.99	736.4	29.04	737.6	42.1	5.6		e.			4		7					
28	29.50	749.2	29.54	750.4	36.0	2.2		calm			0		3					
29	29.80	757.0	29.85	758.2	39.7	4.3		e			6		1					
30	29.89	759.2	29.94	760.4	35.4	1.9		calm			0		6					raining.
Mean	29.61	752.2	29.66	753.4	37.9	3.3							4.8					

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

July 1	29.75	755.7	29.80	756.9	44.2	6.8	78	sw.			4		5					
2	29.65	753.2	29.70	754.4	44.2	6.8	79	sw.			2		8					
3	29.41	747.0	29.46	748.2	50.4	10.2	82	se.			4		6					
4	29.50	749.2	29.54	750.4	46.9	8.3	65	calm			0		0					
5	29.59	751.6	29.64	752.8	46.6	8.1	92	ne.			2		8					
6	29.73	755.2	29.78	756.4	37.9	3.3	86	ne.			2		8					
7	29.80	756.8	29.84	758.0	45.5	7.5	83	e.			4		0					
8	29.63	752.7	29.68	753.9	49.6	9.8	98	calm			0		0					
9	29.81	757.2	29.86	758.4	47.7	8.7	68	calm			0		5					
10	29.83	757.6	29.87	758.8	50.5	10.3	66	calm			0		0					
11	29.90	761.0	30.01	762.2	50.9	10.5	68	se.			2		0					
12	30.06	763.4	30.10	764.6	54.0	12.2	93	calm			0		4					
13	29.82	757.3	29.86	758.5	50.2	10.1	98	sse.			6		2					
14	29.63	752.7	29.68	753.9	44.1	6.7	83	ne.			2		9					
15	29.90	759.5	29.95	760.7	40.1	4.5	57	calm			0		9					
16	29.85	758.3	29.90	759.5	40.8	4.9	91	sw.			6		10					raining.
17	29.98	761.4	30.02	762.6	44.4	6.9	79	sw.			2		5					
18	29.95	760.7	30.00	761.9	45.1	7.3	65	calm			0		8					
19	29.80	756.8	29.84	758.0	50.7	10.4	28	se.			6		0					
20	29.30	744.2	29.35	745.4	44.4	6.9	85	calm			0		10					raining.
21	29.53	750.0	29.58	751.2	39.9	4.4	88	sw.			2		10					raining.
22	29.66	753.4	29.71	754.6	41.5	5.3	94	calm			0		10					raining.
23	29.61	752.2	29.66	753.4	40.5	4.7	86	calm			0		10					foggy.
24	29.85	758.3	29.90	759.5	40.1	4.5	83	sw.			6		9					
25	29.74	755.4	29.79	756.6	35.1	1.7	93	nw.			4		10					foggy.
26	29.91	759.8	29.96	761.0	37.6	3.1	79	sw.			4		10					
27	29.84	757.9	29.89	759.1	37.2	2.9	72	ne.			4		4					
28	29.70	754.3	29.74	755.5	39.9	4.4	84	n.			4		6					
29	29.93	760.3	29.98	761.5	36.3	2.4	83	calm			0		10					
30	30.16	766.1	30.21	767.3	33.3	0.7	89	w.			2		10					foggy.
31	30.24	768.0	30.28	769.2	35.4	1.9	92	sw.			4		8					
Mean	29.78	756.4	29.83	757.6	43.3	6.3	80						6.3					

UPERNAVIK—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Velocity. Miles perhour	Metrs prsec.	Force 0-10	Clouds. Amount. Upper. 0-10	Lower. 0-10	Direction. Up'er From	Lo'er From	Rainfall in past 24 hours. Inch.	Mill.	WEATHER.
1883.																		
August 1	30.20	767.1	30.25	768.3	39.0	3.9	90	w.			2		10					foggy.
2	29.88	758.9	29.93	760.1	38.7	3.7	90	sw.			4		10					
3	29.86	758.5	29.91	759.7	37.9	3.3	83	e.			2		5					
4	29.74	755.3	29.78	759.5	41.2	5.1	89	se.			2		10					raining.
5	29.76	755.8	29.80	757.0	38.1	3.4	95	calm.			0		10					raining.
6	29.71	754.6	29.76	755.8	40.8	4.9	100	sw.			7		10					raining.
7	29.82	757.3	29.86	758.5	40.8	4.9	84	sw.			4		7					hazy.
8	30.14	765.6	30.19	766.8	35.4	1.9	100	ne.			2		10					
9	29.98	761.6	30.03	762.8	44.4	6.9	72	ne.			2		10					
10	29.85	758.2	29.90	759.4	44.6	7.0	72	sw.			4		8					
11	29.68	753.8	29.72	755.0	46.9	8.3	99	e.			6		8					
12	29.73	755.2	29.78	756.4	46.6	8.1	98	sw.			2		8					
13	29.80	757.0	29.85	758.2	41.7	5.4	99	e.			2		10					
14	29.74	755.3	29.78	756.5	37.2	2.9	100	n.			4		10					foggy.
15	29.44	747.7	29.48	748.9	40.6	4.8	92	n.			2		2					
16	29.26	743.3	29.31	744.5	39.6	4.2	98	n.			6		3					
17	29.56	750.7	29.60	751.9	38.1	3.4	92	n.			2		10					
18	29.77	756.1	29.82	757.3	37.9	3.3	97	e.			2		0					
19	29.63	752.5	29.67	753.7	40.6	4.8	97	sw.			6		10					raining.
20	29.78	756.3	29.82	757.5	40.8	4.9	97	sw.			7		0					
21	29.82	757.5	29.87	758.7	40.3	4.6	100	e.			2		3					
22	29.82	757.3	29.86	758.5	39.2	4.0	98	ne.			7		2					
23	29.73	755.2	29.78	756.4	38.3	3.5	97	n.			2		0					
24	29.73	755.1	29.78	756.3	38.5	3.6	95	calm.			0		0					
25	29.62	752.4	29.67	753.6	43.0	6.1	100	e.			2		0					
26	29.74	755.3	29.78	756.5	34.9	1.6	98	calm.			0		0					
27	29.76	756.0	29.81	757.2	40.3	4.6	94	e.			2		0					
28	29.78	756.4	29.83	757.6	43.0	6.1	95	calm.			0		0					
29	29.91	759.8	29.96	761.0	39.7	4.3	93	calm.			0		8					
30	29.98	761.5	30.03	762.7	41.9	5.5	97	e.			2		9					
31	29.99	761.7	30.04	762.9	39.0	3.9	90	e.			2		5					
Mean	29.78	756.4	29.83	757.6	40.3	4.6	94						6.1					

GODTHAAB, GREENLAND (N. 64° 11′, W. 51° 46′).

September 1	29.74	755.5	29.79	756.6	40.5	4.7	94	s.			4		10					
2	29.64	752.8	29.68	753.9	41.5	5.3	89	ene.			2-4		9					misty.
3	29.32	744.6	29.36	745.7	45.0	7.2	82	w.			2		10					raining.
4	29.29	744.0	29.34	745.1	40.1	4.5	96	s.			4		10					raining.
5	29.31	744.5	29.35	745.6	36.9	2.7	96	s.			4		10					raining.
6	29.42	747.3	29.47	748.4	40.8	4.9	67	e.			2		10					
7	29.15	740.5	29.20	741.6	40.6	4.8	96	s.			2		10					
8	29.33	745.0	29.37	746.1	35.1	1.7	84	w.			2		10					snowing.
9	29.47	748.5	29.51	749.6	31.6	— 0.2	83	s.			4-6		10					
10	29.34	745.2	29.38	746.3	31.6	— 0.2	100	ssw.			4		10					
11	29.25	742.9	29.29	744.0	31.6	— 0.2	68	ene.			4		1					
12	29.35	745.5	29.39	746.6	34.0	1.1	73	ne.			4		0					
13	29.51	749.5	29.55	750.6	34.9	1.6	89	ne.			2		8					misty.
14	29.71	754.6	29.75	755.7	35.6	2.0	82	nne.			2		10					misty.
15	29.74	755.5	29.79	756.6	33.8	1.0	80	ene.			4		2					
16	29.90	759.4	29.94	760.5	34.9	1.6	87	s.			4		9					
17	29.92	759.9	29.96	761.0	35.1	1.7	84	s.			2		0					
18	29.78	756.5	29.83	757.6	41.2	5.1	97	ene.			2		10					raining.
19	30.04	762.9	30.08	764.0	40.1	4.5	97	sw.			2		10					raining.
20	30.26	768.6	30.30	769.7	42.8	6.0	93	ne.			2		10					misty.
21	30.11	764.8	30.15	765.9	41.4	5.2	100	ne.			2		10					foggy.
22	29.91	759.6	29.95	760.7	35.8	2.1	100	sw.			2		10					foggy.
23	29.47	748.4	29.51	749.5	37.8	3.2	100	ssw.			2		10					rain and fog.
24	29.58	751.4	29.63	752.5	34.9	1.6	91	ssw.			2		10					
25	29.57	751.0	29.61	752.1	35.8	2.1	96	calm.			0		10					raining.
26	29.12	739.7	29.17	740.8	41.4	5.2	71	ene.			4		10					
27	28.94	735.0	28.98	736.1	41.5	5.3	82	calm.			0		10					
28	29.38	746.2	29.42	747.3	37.0	2.8	91	ene.			2		9					
29	29.56	750.8	29.60	751.9	38.3	3.5	92	ene.			4		10					raining.
30	29.90	759.5	29.95	760.6	34.9	1.6	76	ene.			2		5					
Mean	29.57	751.0	29.61	752.1	37.6	3.1	88						8.4					

BOGOTA, U. S. COLUMBIA (N. 4° 36′, W. 74° 14′.)

June 1	22.06	560.3			53.4	11.9	77	n.	2	1			10ks; s		w.	0	0	
2	21.90	556.2			54.5	12.5	74	calm	0	0			9ks; s		nw.	0	0	
3	22.04	559.8			53.1	11.7	79	calm	0	0		0	4 s		w.	0	0	
4	22.05	559.9			54.5	12.5	72	ne.	4	2			10ks; n		s.	0	0	
5	22.05	560.0			53.1	11.7	79	calm	0	0		8ck; cs	0	w.		0.051	1.3	
6	22.07	560.5			54.5	12.5	77	s.	4	2		8 k	2 s	n.	ne.	0	0	
7	22.04	559.8			54.9	12.7	72	n.	4	2			6s; ks		n.	0.098	2.5	
8	22.05	560.1			57.0	13.9	73	calm	0	0			6s; ks		ne.	0	0	
9	22.08	560.8			57.6	14.2	73	calm	0	0			10s; ks		ne.	0.201	5.1	
10	22.07	560.7			55.8	13.2	72	sw.	7	3			10ks; s		n.	0	0	
11	22.06	560.3			60.6	15.9	76	sw.	2	1			10s; ks		nw.	0.142	3.6	
12	22.05	560.1			57.0	13.9	75	sw.	2	1			10s; ks		ne.	0.051	1.3	
13	22.04	559.9			57.0	13.9	72	n.	2	1			10s; ks		nw.	0	0	
14	22.05	560.1			57.9	14.4	66	calm	0	0			10ks; s		n.	0	0	
15	22.05	560.2			55.9	13.3	70	ne.	2	1			8ks; s		w.	0	0	
16	22.04	559.9			56.5	13.6	73	nw.	4	2			9ks; s		nw.	0.031	0.8	
17	22.04	559.8			54.0	12.2	63	s.	4	2			10 ks		s.	0	0	
18	22.06	560.3			54.5	12.5	77	calm	0	0			10ks; s		nw.	0	0	
19	22.04	559.9			57.0	13.9	78	calm	0	0			10 ks		e.	0.150	3.8	
20	22.05	560.0			54.5	12.5	77	s.	4	2		1 k	9ks; s	nw.	nw.	0.150	3.8	
21	22.07	560.7			56.5	13.6	75	ne.	2	1		2 cs	6 s	se.	w.	0.079	2.0	
22	22.10	561.2			55.9	13.3	77	n.	2	1			9ks; s		n.	0	0	
23	22.09	561.1			52.0	11.1	66	sw.	4	2		3c; ck	7ks; s	e.	n.	0.331	8.4	
24	22.06	560.4			50.0	10.0	65	nw.	2	1			10ks; sn		nw.	0.110	2.8	
25	22.03	559.6			55.9	13.3	64	calm	0	0			10 s		n.	0.039	1.0	
26	22.04	559.5			56.8	13.8	63	nw.	2	1		2k	4s; ks	w.;s	w.	0	0	
27	22.05	560.2			57.6	14.2	70	w.	2	1			10 sn		w.	0	0	
28	22.06	560.4			54.5	12.5	77	sw.	4	2			10ks; s		calm	0.039	1.0	
29	22.06	560.4			55.0	12.8	67	w.	4	2			10kn;sn		nw.	0.059	1.5	
30	22.04	559.9			54.5	12.5	72	sw.	4	2			10 ns			0.079	2.0	
Mean	22.05	560.0			55.2	12.9	72.4		2.1	0.9		0.8	8.3			1.601	40.9	

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

REVIEW.

INTERNATIONAL METEOROLOGY.

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

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

Three areas of barometric minima appear on the chart for September, 1883; the first of these is indicated by the isobar for 29.6 (751.8) and is situated in Alaska, where the mean pressure, at Fort Saint Michael's, was 29.58 (751.3). The remaining areas of least mean pressure are shown in Greenland and in British India, respectively, and are both indicated by the isobar for 29.7 (754.4). In the first-mentioned region, the mean pressure ranges from 29.61 (752.1) at Godthaab to 29.7 (754.4) over the ocean north of the fifty-fifth parallel; in British India the means range from 29.61 (752.1) to 29.67 (753.6) over that part of the country lying between the parallels of 20° and 30° north latitude and the meridians of 70° and 90° east longitude; in southern India the mean pressure exceeds 29.75 (755.6). In northern and western Europe the means range from 29.8 (766.9) to 29.9 (759.4); in the central, southern, and northeastern districts they vary from 29.9 (759.4) to 30.0 (762.0), and in the Iberian peninsula and the greater part of Russia they exceed 30.0 (762.0). In the North American continent the mean pressure is everywhere above 30.0 (762.0) except in the region west of 105° west longitude and south of the forty-fifth parallel.

No marked areas of barometric maxima are exhibited on the chart; the most extensive is that which occupies the Atlantic ocean and is enclosed by the isobar for 30.1 (764.5), which extends from W. 65° eastward to W. 10°, and from N. 20° northward to N. 40°; at the centre of this area, which is near the Azores, the pressure is 30.19 (766.8). Three small areas of high barometer are shown in the United States; one occupies Montana, where the mean pressure is 30.12 (765.0); another is shown in southern Tennessee and the northern parts of Georgia and Alabama, while the third area occupies the middle Atlantic states; in both areas the means vary from 30.1 (764.5) to 30.13 (765.3).

A comparison with the chart for the preceding month (August) shows a slight increase of pressure to have occurred in Montana and Wyoming and in the middle and south Atlantic states; in all other districts the pressure has remained nearly stationary, at stations where the pressure was below that of the preceding month, the deficiencies were extremely slight. Over the Atlantic ocean from the coasts of the United States eastward to about the sixty-fifth meridian there has been an increase of pressure, but to the eastward of that meridian there has been an extensive decrease, averaging .1 inch. In Europe, the pressure in Scandinavia and Russia exceeded that of August by about .1 inch, while in all other countries of the continent there has been a decrease ranging from .04 inch in the Iberian peninsula to .18 inch in the British Isles. In British India, there has been an increase of about .08 inch, and a corresponding increase has occurred throughout the continent of Asia.

Compared with the corresponding month of previous years, the mean atmospheric pressure in the United States was slightly below the normal on the Pacific coast, and in the east Gulf and south Atlantic states; in all other districts the mean pressure exceeded the September normal, the greatest departures being .1 inch in Wyoming. In Canada the mean pressure was slightly above the normal. In Europe, the pressure was about normal in Russia and the Iberian peninsula, and in all other districts, it was below the normal. In British India, it was .03 inch below the six years' mean.

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

Countries.	Mean pressure.			Mean temperature.		
	Sept. mean of 6 (1877–'82) years.	Sept., 1883.	Departure.	Sept. mean of 6 (1877–'82) years.	Sept., 1883.	Departure.
				°	°	°
Algeria	30.02	30.04	+ 0.02	81.7	82.1	+ 0.4
Austria	29.96	29.91	— 0.05	66.0	66.6	+ 0.6
British Isles	29.96	29.81	— 0.15	57.9	59.6	+ 1.7
Denmark	29.91	29.82	— 0.09	59.1	59.3	+ 0.2
France	30.00	29.94	— 0.06	67.1	66.2	— 0.9
Germany	29.98	29.91	— 0.07	63.3	63.4	+ 0.1
India	29.70	29.67	— 0.03	82.9	83.2	+ 0.3
Italy	29.97	29.63	— 0.04	74.0	72.9	— 1.1
Norway	29.84	29.81	— 0.03	57.7	54.5	— 2.2
Portugal	30.03	.....	.....	74.4	.....	.....
Russia	29.98	29.98	normal	62.5	66.5	+ 4.0
Spain *	30.02	30.03	+ 0.01	73.6	71.6	— 2.0
Sweden	29.91	29.89	— 0.02	56.2	55.6	— 0.6

* Mean for five years only.

In the United States the mean temperature of the air was below the normal in the districts east of the Rocky mountains, and normal or slightly above normal over the country to the westward. In Canada it was below the normal. In Europe the mean temperature differed but slightly from the normal; in the southern peninsulas and in Scandinavia, it was slightly below, and in Russia and the other districts it was above the normal. In Hindostan it was 0°.3 above the six-year normal; the highest mean reported was 91°.8 Fahr. (33°.2 Cent.) at Agra, and the lowest was 71°.0 Fahr. (21°.7 Cent.) at Belgaum.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Cairo, Egypt	89.1	31.7	Edmonton, N.W.Territory, B.A.	34.7	1.5
Freetown, Africa	86.8	30.4	York Factory, B. A.	30.8	2.7
Bridgetown, Barbadoes, W. I.	84.0	28.9	Qu 'Appelle, N. W. Ter., B. A.	37.0	2.8
Nassau, Bahamas	82.2	27.9	Godthaab, Greenland	37.6	3.1
Beirut, Syria	81.5	27.5	Fort Saint Michael's, Alaska	43.1	0.2

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

Stations.	Mean pressure.			Mean temperature.		
	Sept. mean of 6 (1877–'82) years.	Sept., 1883.	Departure.	Sept. mean of 6 (1877–'82) years.	Sept., 1883.	Departure.
				°	°	°
Gibraltar*	30.03	30.05	+ 0.02	75.7	76.2	+ 0.5
Malta, Mediterranean Sea	29.96	29.95	— 0.01	81.6	78.3	— 3.3
Sandwick Manse, Orkney Islands	29.92	29.79	— 0.13	54.1	53.6	— 0.5
Bridgetown, Barbadoes*	29.95	29.98	+ 0.03	82.9	84.0	+ 1.1
Cape Town, Cape Good Hope	30.13	.....	.....	65.8	.....	.....
Fort Napier, Natal, South Africa*	29.94	29.90	— 0.04	73.5	74.8	+ 1.3
Freetown, Sierra Leone	29.90	29.84	— 0.06	82.1	86.8	+ 4.7
Mauritius, Indian Ocean	30.16	30.16	normal	72.9	72.6	— 0.3
Melbourne, New South Wales	30.01	29.99	— 0.02	52.6	51.4	— 1.2
Nassau, Bahamas	30.00	30.01	+ 0.01	83.1	82.2	— 0.9
Godthaab, Greenland	29.71	29.61	— 0.10	37.6	37.6	normal
Stykkisholm, Iceland	29.64	29.73	+ 0.09	45.8	46.9	+ 1.1
Thorshavn, Färöe Islands	29.78	29.84	+ 0.06	51.2	51.1	— 0.1
Zi-Ka-Wei, China	29.94	29.94	normal	71.0	71.4	+ 0.4
Athens, Greece	29.96	29.94	— 0.02	82.8	81.3	— 1.5
Cagliari, Sardinia, Italy	29.94	29.95	+ 0.01	78.3	76.3	— 2.0
Tokei, Japan	29.96	29.98	+ 0.02	70.2	69.4	— 0.8
Angra, Azores*	30.15	.....	.....	70.6	70.7	+ 0.1
Funchal, Madeira Islands	30.12	30.17	+ 0.05	75.3	75.6	+ 0.3
Ponta Delgado, Azores	30.19	30.19	normal	73.6	73.0	— 0.6
Archangel, Russia	29.93	29.93	normal	50.6	50.2	— 0.4
Tiflis, Russia	29.94	29.99	+ 0.05	75.9	75.2	— 0.7
Astrakhan, Russia	30.03	30.10	+ 0.07	69.8	73.8	+ 4.0
Ekaterinburg, Russia	29.92	29.99	+ 0.07	52.2	54.9	+ 2.7
Tashkend, Toorkistan, Asia	29.96	29.92	— 0.04	70.2	77.7	+ 7.5
Barnaul, Siberia, Asia	29.91	29.97	+ 0.06	55.6	55.8	0.2
Yeniseisk, Siberia, Asia	29.95	30.10	+ 0.15	47.2	44.2	— 3.0
Pekin, China	29.97	29.98	+ 0.01	67.6	64.9	— 2.7
Nikolaevsk on the Amoor, Asia	.....	.....	.....	.....	48.2	.....
San Juan de Puerto Rico, W. I.	29.97	30.02	+ 0.05	81.3	80.4	— 0.9
Beirut, Turkey in Asia	29.87	29.91	+ 0.04	85.1	81.5	— 3.6
Mexico, Mexico	.....	.....	.....	.....	.....	.....
Havana, Cuba, W. I	29.97	30.00	+ 0.03	80.7	77.0	— 3.7
Paramaribo, D. Guiana, S. A	30.04	30.02	— 0.02	81.7	79.6	— 2.1
York Factory, B. A	29.97	29.99	+ 0.02	36.9	36.8	— 0.1

* Means for five years only.

In the United States, the prevailing winds were northeasterly along the Atlantic coast, and northerly and northeasterly in the lake region, and the Ohio and Mississippi valleys. In other districts east of the Rocky mountains, they were from east and southeast; on the Pacific coast they were northeasterly and northwesterly. In Canada, the winds were mostly from southwest to northwest. Over the Atlantic ocean the prevailing wind-directions were: easterly, southeasterly and southerly from W. 70° to W. 40°, and between N. 10° and 40°; mostly northeasterly from W. 40° to W. 10°, and from N. 10° northward to N. 40°. North of the fortieth parallel, northwesterly winds prevailed. In Europe, the winds were mostly southerly, southwesterly and westerly. In Japan, they were northerly and easterly.

The rainfall during September, 1883, was in excess of the average in the Atlantic coast states, except Florida and New England. It was also excessive on the middle slope of the Rocky mountains; on the Pacific coast and the Rio Grande valley; the excess being greatest in the Rio Grande valley and middle slope districts. In all other parts of the United States the rainfall was less than the average, the greatest deficiency having occurred in the eastern Gulf states. In Canada, the rainfall was less than the average, except in the Province of Quebec, where there was a slight excess. In Europe the rainfall was greater than the average, especially in the southern districts, where more than double the average amount of rain fell.

With this REVIEW is issued international chart iii. for the month of March, 1882. This chart continues the series of international charts begun in November, 1877, and exhibits the paths of the principal atmospheric depressions that have appeared in the northern hemisphere. The data are charted for each day of the month on the maps accompanying each issue of the "International Bulletin," and from those charts and additional miscellaneous data are traced the movements of the the centres of barometric minima.

The paths of thirty-four depressions have been traced for the month of March, 1882, and are distributed as follows: ten are charted in the North American continent; of these, four are traced from the Pacific coast eastward or southeastward to the lake region and thence northeastward over Canada to the Atlantic, and one depression is traced from the Gulf of Mexico northeastward to the maritime provinces. Two appear in the lake region, one of these being a continuation of a disturbance shown on the chart for February, while the remaining depressions are traced from the northern slope of the Rocky mountains eastward and southeastward to the Atlantic. Of the depressions traced over the Atlantic ocean seven are continuations of storms which first passed over the United States or Canada; of these, two appear to have reached the European coasts, while the others either filled in or became merged in larger depressions which existed north of the sixtieth parallel.

Thirteen depressions are shown in Europe; of this number, seven approached the Scandinavian coast from the Atlantic, and moved northeastward along the coast to northern Scandinavia, and thence southeastward into eastern Russia. One disturbance entered the British Isles, and passed southeastward over France to the Mediterranean, and one occupied the Italian peninsula. The depression traced as number xix. first appeared in Finland, and passed eastward to the White sea; number xxi. developed in southwestern Russia and moved northeastward; number xxx. appeared north of the British Isles, and passed southward over the North sea at the close of the month, and number xxvii. was a cyclonic storm of great intensity which occupied the Netherlands and Germany during the 26th and 27th. Four disturbances are traced in eastern China and Japan, and one is shown in Asiatic Turkey. The meteorological features of the month of March, 1882, resembled those of the preceding months (January and February) in that the majority of the storm tracks appeared to the northwestward of the British Isles, and passed over Scandinavia, thus causing the mean pressure for the month to remain below the normal in northern Europe, while areas of high pressure prevailed over the central and southwestern parts of the continent, where the mean pressure was consequently above the normal. The departure above normal was, however, not so marked as in the preceding months, while the decrease of pressure in the Scandinavian peninsula was greater than in those months.

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

I.—This was a continuation of the disturbance traced as low-area xiv. on the chart for February. At the close of that month the depression occupied Missouri, whence it moved northeastward and by the morning of March 1st, was central near Georgian Bay, Ontario. During the day the disturbance moved slightly south of east over New England, attended by heavy rains there and in the middle Atlantic states; owing to the presence of an area of high pressures over the Maritime Provinces and near the New England coast, steep gradients were formed to the eastward of the depression, so that strong southerly and easterly gales occurred along the Atlantic coast north of Hatteras, North Carolina, and heavy rains occurred in the Saint Lawrence valley. By the morning of the 2d the disturbance was off the New England coast; the winds at the Atlantic coast stations had now changed to northwesterly and blew with the force of a strong breeze. As the depression moved slowly and with increasing energy northeastward over Nova Scotia, it was attended by rainy weather in that district and strong east to north gales over the Gulf of Saint Lawrence, with equally strong westerly gales to the southward of the centre. During the 4th the depression passed into the Atlantic and is hereafter described as low area xi.

II.—This depression probably developed west of the Rocky mountains prior to the 4th, but its centre could not be located until that day, when it appeared in Nebraska, where the barometer read 29.63 (752.6). The disturbance moved northeastward attended by snow storms in the districts to the northwestward of its track and cloudy or rainy weather eastward to the lower lake region by the 5th. On the morning of that day the centre was near Saint Paul, Minnesota, where the barometer read 29.38 (746.2). An area of high pressure existed to the northward of Manitoba, the barometer at York Factory, Hudson's bay, reading 30.95 (786.1); very steep barometric gradients were thus formed over the region north of the storm-centre, and furious snow storms with violent gales were reported from Manitoba and the Northwest Territories. The storm-centre moved eastward over the lakes, and on the 6th it was in Ontario, the pressure having risen to 29.78 (756.4); during the day it passed eastward to Maine and thence into the Atlantic, where it appears to have gathered fresh energy. This disturbance is hereafter referred to as low area xii.

III.—This disturbance developed in the western part of the Gulf of Mexico during the 8th, having been preceded by heavy rains in southern Texas during the 6th and 7th. As the depression moved northeastward it was attended by heavy rains in the Gulf and south Atlantic states, with rain or snow in the lake districts. On the 9th the storm-centre was in southern Illinois, and the rain area had extended to the lower lakes and middle Atlantic states; by the 10th the disturbance was shown as an elongated depression occupying the Saint Lawrence valley, New England, and the Maritime Provinces, in which districts the barometer ranged from 29.4 (746.7) to 29.55 (750.6); rain continued to fall in the Maritime Provinces and the Saint Lawrence valley, while clearing weather and high winds had set in over the lake region. The depression passed off the Nova Scotia coast during the day, and is hereafter described as low area xiii.

IV.—This depression probably developed in the Northwest Territories during the 11th and moved rapidly southeastward over the lake region. On the 12th the region of minimum pressure was north of Lake Huron, and rain or snow prevailed at stations in the lower lake region and along the Saint Lawrence valley. During the 12th the disturbance moved with increas-

ing energy eastward, and on the 13th the centre was over the Bay of Fundy. On the 14th the storm-centre was east of Cape Breton Island, where the barometer had fallen to 29.13 (739.9); strong n. and nw. breezes to moderate gales prevailed in the western semi-circle of the disturbance, while strong s. gales were reported at sea. This depression, which crossed the Atlantic and reached the European coasts, is hereafter described as low area xiv.

V.—This disturbance appeared in Dakota on the morning of the 14th, at which time the minimum barometric reading was 29.6 (751.8). As the depression moved east-southeastward during the day the pressure gradually increased, and on the 15th the readings ranged from 29.87 (758.7) to 29.95 (760.6), the lowest being in Illinois. During its passage south of the lakes this disturbance caused strong easterly winds in the lake region and light snow in the vicinity of Lake Erie. By the morning of the 16th the disturbance had passed into the Atlantic and was central off the Virginia coast. Its subsequent movements are described under low area xv.

VI.—From the 13th to the 16th an area of low pressure, with barometric readings ranging from 29.5 (749.3) to 29.7 (754.4). hovered off the California coast; on the last-mentioned date the area of decreasing pressure spread eastward and by the 17th the disturbance had entered Dakota, while another depression, probably a secondary development of vi., had appeared off the North Pacific coast. On the 17th the centre of number vi. was enclosed by the isobar for 29.6 (751.8) and strong winds, with threatening weather, prevailed from Dakota eastward to the lakes. Moving east-southeastward from Dakota, the disturbance reached Iowa on the 18th, the minimum readings being about 29.64 (752.8). A moderately steep gradient existed over the eastern part of the lower lake region, eastern Canada and New England, thus causing moderate se. and e. gales, with rain or snow throughout the former district. From Iowa the disturbance moved northeastward to the Saint Lawrence valley, attended by increasing pressure and, as the gradients decreased, by moderate winds. During the 19th the depression passed down the Saint Lawrence and entered the Gulf, where the pressure appears to have again decreased; on the 20th it was to the northward of Newfoundland, the pressure at the centre being now below 29.6 (751.8). This disturbance apparently moved north-northeastward towards Greenland, and is hereafter described as low-area xvi.

VII.—This was probably a secondary development of the preceding disturbance; on the 17th, the pressure, which had increased at stations to the north Pacific coast region after the passage of low area vi., again decreased to 29.9 (751.8), and by the 18th, the barometer had fallen below 29.4 (746.7). On the 19th, the disturbance spread eastward to the Rocky mountains and by the morning of the 20th, it was central as a storm of decided energy in Nebraska where the pressure was below 29.6 (751.8). The depression moved eastward causing heavy and disastrous rains in southern Indiana, Ohio, and Kentucky; on the 21st the storm-centre was in Michigan, where the minimum pressure was 29.49 (749.0) at Port Huron, the isobar for 29.6 (751.8), extending from Iowa eastward to Lake Erie. Steep barometric gradients existed over the regions to the southwest, west, and northwest of the storm-centre, and strong w. and nw. gales prevailed in the upper Mississippi and Missouri valleys, with violent e. gales in the upper lakes; during the 20th and 21st, heavy snow occurred in Minnesota, Michigan, and Wisconsin, and extended, on the 22d, to the lower lake region and New England. During the 21st, the pressure began to increase and by the 22d the minimum readings were reported from New England, but were not below 29.8 (756.9). Snow continued in that district and in the lower lake region during the 22d, but was followed by clearing weather during the night. During the 22d, the disturbance passed into the Atlantic, and filled up on the 23d, when the pressure over the Atlantic, south of the fiftieth parallel, was about 30.0 (762.0).

VIII.—This disturbance moved over the Northwest Territories of Canada during the 22d, and by the morning of the 23d its centre, which was enclosed by the isobar for 30.00 (762.0), occupied the Lake Superior region. During the 23d it moved with increasing energy over the provinces of Ontario and Quebec, and by the morning of the 24th was central between Quebec and Father Point, where the barometer read, respectively, 29.49 (749.0) and 29.53 (750.0). The disturbance was followed by an area of high pressure which caused moderate w. and nw. gales, with snow, over the lake region and along the Saint Lawrence valley. During the 24th the depression passed over the Gulf, and reached Newfoundland on the 25th, passing thence into the Atlantic during that day. Its subsequent movements are described under low area xvii.

IX.—By the morning of the 23d, the pressure at stations on the Alaskan coast, had decreased about .68 inch since the morning observation of the 22d. By the 24th, the area of decreasing pressure had reached the northern boundary of the United States, and on the following day a well-defined disturbance, at the centre of which the pressure was below 29.6 (751.8), occupied Minnesota. The storm centre moved in a southerly direction, and on the 26th, it was shown in Kansas, the central pressure remaining below 29.6 (751.8); during the 26th, strong s. to e. winds prevailed in the lake region and Ohio valley, with generally cloudy or rainy weather. On the 26th the disturbance moved to the northeastward, developing increased energy as the depression became deeper; on the 27th, the storm centre was in Michigan, where the minimum barometric reading was 29.29 (744.0), while the isobar for 29.4 (746.7) enclosed within its limits Lakes Michigan and Huron, and the southeastern part of the province of Ontario. Rainy weather continued in the Southern states and along the coast, and disastrous tornadoes occurred in Alabama and Georgia. As the disturbance moved over Ontario and Quebec to the mouth of the Saint Lawrence, it caused heavy rains in the lower lake region and Saint Lawrence valley, and moderate to strong w. and nw. gales in the former region and along the Atlantic coast from Hatteras northward. On the morning of the 28th, the centre of disturbance was over the Gulf of Saint Lawrence, the lowest reported barometer reading 29.19 (741.4) at Dalhousie, New Brunswick; at Father Point, the wind reached a velocity of fifty-five miles an hour from the west, and of forty miles sw. at Sidney, Cape Breton Island; heavy rain also fell at most stations in the Maritime Provinces. During the 28th, this disturbance probably moved north-northeastward, and united with a deep depression which was in southern Greenland on the 29th.

X.—On the 27th the barometer at Sitka, Alaska, read 29.29 (743.2), being a fall of about .65 inch; by the morning of the 28th the pressure had increased to 29.55 (750.6) in Alaska, while a fall of about .7 inch had occurred in Manitoba, where the barometer now read 29.26 (743.2), with high s. winds in Minnesota. The disturbance moved eastward, and on the 29th it was central over the northern part of Lake Superior, causing brisk to high southerly winds at stations in the upper lake region. On the 30th the disturbance passed down the Saint Lawrence valley, giving showery weather in that region, and followed in the lake region by an area of high pressures, which caused high w. and nw. winds in both districts. By the 31st the depression had passed northeastward over Labrador.

The following descriptions refer to the storms traced over the Atlantic ocean and in Europe.

XI.—This was a continuation of the disturbance described above as low area i. After leaving the coast of Nova Scotia on the 4th, it moved slowly eastward, and by the 5th it was shown as an elongated area of low pressures enclosed by the isobar for 29.4 (746.7) and extending from N. 38°, W. 60° northward and eastward to N. 50°, W. 50°. Within the area of minimum pressures the winds were light and variable, but moderate to strong gales were reported on either side of the disturbance, being from n. in the Maritime Provinces and off the coast of the United States, and from s. and sw. over the ocean east of 45° W. The disturbance moved slowly northeastward, and on the 6th it was central near N. 50°, W. 42°, the lowest reported

reading being 29.18 (741.2). A somewhat steep gradient existed to the southeastward of the centre, so that in that region moderate to fresh sw. gales occurred; in other quadrants the gradient was of moderate inclination, and brisk to high winds only (15 to 30 miles) were reported. During the 6th the disturbance appears to have moved north-northeastward towards Iceland; on the 7th the barometer at Stykkisholm read 28.73 (729.7), being a fall of .8 inch in twenty-four hours. A decided increase of pressure occurred during the 6th over western Europe, and this extended to Great Britain, so that steep gradients were formed over the British Isles and the North sea, causing strong sw. gales between W. 25° and 15° and strong breezes to moderate gales from W. 15° eastward to the British Isles.

On the 8th the disturbance remained in the neighborhood of Iceland, while stormy weather prevailed over the Atlantic. On the 9th the depression, having been joined by low area xii., which had moved over the ocean during the 7th and 8th, was now shown as an unusually large and deep depression, with its centre in Iceland, where the barometer read 28.03 (711.9). An area of high pressures, 30.6 (777.2), occupied the Maritime Provinces, the Atlantic coast, and the ocean eastward to about W. 45°, while another high area, 30.4 (772.1), covered central and western Europe; as a result of this distribution of pressure, exceedingly steep gradients were formed over the British Isles and the Atlantic ocean north of W. 45°, so that strong nw. gales prevailed over the Atlantic from the Banks of Newfoundland eastward to the fortieth meridian; w. gales occurred between that meridian and W. 20°, and strong ssw. and sw. gales over the British Isles and North sea. During the 10th and 11th the disturbance moved northeastward to northern Scandinavia, attended by rain or snow at stations in the peninsula, and showery weather over the northern parts of the British Isles; near the centre of disturbance the pressure remained below 29.0 (736.6). By the 12th the depression had moved, with increasing pressure, east-southeastward, over the White Sea, and had passed into western Siberia, where it disappeared.

XII.—This was a continuation of the depression previously described as low area ii. After passing to the eastward of the New England coast during the 6th the pressure began to decrease, and by the morning of the 7th the region of least pressure was enclosed by the isobar for 29.6 (751.8), the centre of depression being about N. 42°, W. 56°. During the 7th fresh breezes to moderate gales prevailed within the storm-area, but on the 8th, owing to the eastward advance of an area of high pressures from the United States, the barometric gradient increased, and the n. and nw. winds in the western semi-circle of the disturbance increased to the force of a strong gale. On the 8th the centre of this disturbance was apparently near N. 49°, W. 38°, whence it moved northward and probably became merged in low area xi., then central near Iceland.

XIII.—This was a continuation of the depression first charted and described as low area iii. The disturbance entered the Atlantic from the Maritime Provinces on the 10th, and by the 11th it was on the Banks of Newfoundland; fresh to strong n. and w. breezes prevailed in the Maritime Provinces and to the southward of Newfoundland, while strong sw. gales were reported over the region to the eastward of W. 45°. During the 11th, 12th, and 13th the depression moved nearly due northward, this movement being probably caused by the presence of an area of barometric maxima which lay in front of the disturbance, and stretched from about N. 35°, W. 40° northeastward to the British Isles and the Danish peninsula. During this period moderate to strong gales, mostly from w. and sw., prevailed over the Atlantic from W. 50° to the British Isles; on the 13th this disturbance became merged in the extensive depression which occupied the Arctic regions.

XIV.—This was a continuation of an important depression which passed over the Maritime Provinces and Newfoundland on the 14th, and is the only disturbance during this month that reached the European coasts at a lower latitude than N. 60°. On the 14th s. and sw. gales, of force 8 to 10, occurred between W. 55° and 45°, and in the latitude of the Banks; by the 15th the winds over that region had shifted to n. and nw., and were moderate in force, while those to the eastward of W. 40° became southerly and blew with a force of 8 to 10. On the 16th the centre of disturbance, where the pressure had now risen to 29.8 (756.9), was clearly indicated by the movement of the winds in about N. 51°, W. 37°. The area of barometric maxima, at the centre of which the pressure was 30.6 (777.2) was becoming smaller in extent and gradually withdrawing to the eastward with decreasing pressure, so that on the 17th, when the centre of depression was near N. 51°, W. 31°, the barometric gradient in front of the disturbance was slight and the winds moderated to fresh breezes. On the 18th the disturbance was near N. 52, W. 18°, and a rapid decrease of pressure set in over the British Isles; during the day the depression moved northeastward, and on the 19th it was central near the northwest coast of Ireland. Owing to the advance of an area of high barometer from the Maritime Provinces, the barometric gradient became steep in the southwest quadrant of the disturbance, and the nw. winds which prevailed in that region increased to force 9. During the 19th the disturbance apparently moved northward and united with a deep depression which was moving eastward from Iceland.

XV.—This is a continuation of a disturbance which passed into the Atlantic from the Virginia coast on the 16th (low area v.); on the 17th the circulation of the winds showed the storm-centre to be near N. 38°, W. 68°, the lowest reported pressure in that region being 29.84 (757.9). On the 18th the centre was well-defined south of Nova Scotia, the pressure having decreased to 29.7 (754.4); heavy e. and ne. gales prevailed over the Banks and several vessels on George's Banks lost anchors, cables, etc., and sustained other damage; vessels on the fortieth parallel and between W. 68° and 70° had n. gales of force 7 to 8, and those to the eastward had se. gales of force 6 to 7, with heavy rains. On the 19th the disturbance remained near N. 40° and between W. 60° and 65°; but the pressure was increasing, and during the day the depression either filled up or united with low area vi. which occupied Newfoundland on the 20th.

XVI.—This is a continuation of the disturbance described above as low area vi; it passed over Newfoundland during the 29th, and moved northward to southern Greenland, where, on the 21st, the pressure read 29.03 (737.3), a fall of .88 inch; at the same time a subsidiary disturbance, which was attended by strong s. gales, apparently existed near N. 45°, W. 45°. On the 22d, the region of least pressure was in Greenland, where the barometer was steadily falling, and the subsidiary disturbance, above referred to, had disappeared and pressure was generally high over the Atlantic south of N. 50°, except in the vicinity of Newfoundland and Nova Scotia, where it remained below 30.0 (762.0). During the 22d, the disturbance began to move eastward and by the 23d, the barometer at Stykkisholm, Iceland, had fallen to 28.75 (730.2), a decrease of about .4 inch in twenty-four hours. On the 24th the minimum barometric reading was 28.52 (724.4) at Stykkisholm, and decreasing pressure with showery weather and fresh w. and sw. breezes set in over the British Isles; over the Atlantic near the fiftieth parallel the winds were w. and blew with the force of a strong breeze to moderate gale. During the 25th and 26th, the disturbance moved to the Scandinavian coast and passed thence northeastward to the Arctic regions. During its passage along the coast the pressure near the centre of disturbance was below 29.0 (736.6), and strong s. winds with rain or snow occurred in Scandinavia.

XVII.—This is a continuation of a disturbance which crossed the Gulf of Saint Lawrence and entered the Atlantic during the 25th (low area viii.). On the 26th it was shown near N. 45°, W. 50°, as a small area of low pressures enclosed by the isobar for 29.6 (751.8) and attended by moderate to strong breezes from s. to nw. During the 27th and 28th it apparently passed northward and joined the depression which existed north of the sixtieth parallel.

XVIII.—This is a continuation of a disturbance which appeared off the Irish coast at the close of February, and is shown on the chart for that month as low area xxxvii. On March 1 the depression occupied the British Isles, the barometric minima being reported in Ireland, where the pressure was below 28.8 (731.5); strong e. breezes prevailed in northern England and Scotland and over the North sea, while strong w. and sw. gales occurred in the channel, the Bay of Biscay, and off the Irish coast, with heavy rains in all districts. By the 2d the centre of disturbance had moved slowly northeastward to the northwestern part of England, but the pressure had increased to 29.0 (736.6); the gales of the preceding day continued without any material diminution of force, attended by generally unsettled, rainy weather. During the 2d the disturbance appears to have moved southward over the southern counties of England, and by the 3d the centre was shown near Brest, France, with pressure about 29.2 (741.7); brisk to strong e. and ne. winds prevailed over England, with moderate n. gales in Ireland and over the ocean westward to the seventeenth meridian; in the Iberian peninsula strong w. breezes were reported, while moderate s. and se. winds prevailed along the French coast. The depression moved southeastward over France, and on the 4th it was central in the Mediterranean districts of that country; continuing its southeasterly course during the day the centre reached the neighborhood of Sicily on the 5th, the pressure having increased to 29.8 (756.9). During the 6th and 7th the disturbance occupied southern Italy, and finally dissipated on the last-mentioned date; moderate gales and rainy weather prevailed over the Mediterranean and the Italian peninsula during its passage.

XIX.—This depression appeared in Finland on the morning of the 1st, the pressure near the centre being below 29.5 (749.3); northerly gales prevailed over the Gulf of Bothnia, and moderate to strong w. winds in the Baltic. By the 2d the disturbance had moved to the White Sea region, the pressure at Archangel reading 29.52 (749.8), wind wsw.; during the day the depression apparently filled in.

XX.—By March 2d, the barometer at Godthaab, Greenland, had fallen to 29.12 (739.6), a fall of about .65 inch in twenty-four hours, and by the 3d the decrease had extended to Iceland, while an increase set in over Greenland. The chart for the 4th showed an elongated area of low pressures enclosed by the isobar for 28.8 (731.8), stretching from the east coast of Iceland to the Färöe Islands, with rainy weather and strong sw. to w. breezes over the British Isles and s. winds in Scandinavia. On the 5th the depression was off the Norwegian coast; moving northeastward it passed into northern Scandinavia on the 6th, causing strong w. and nw. gales over the North Sea, British Isles, and Denmark, with generally unsettled, rainy weather over the districts named; at the centre of disturbance the pressure was below 28.4 (721.3). During the 7th and 8th the storm-centre moved southeastward into northern Russia, attended by gradually rising pressure and strong nw. and n. gales in its rear. On the 9th the disturbance was in the Ural region, pressure at Ekaterinburg, 29.24 (742.7); after that date it passed into northern Siberia and disappeared.

XXI.—This depression appeared in southwestern Russia on the 4th, the barometric minimum being 29.19 (741.4) at Kiev, province of Little Russia; on the 5th, the disturbance was central near and to the eastward of Moscow, where the barometer read 29.42 (747.3) and, by the following day, it had apparently joined low area xx. which then occupied northern Europe.

XXII.—This area was a disturbance which appeared off the northwestern coast of Scotland on the 7th, and was probably a secondary development of low area xx. It moved northeastward, attended by rain or snow and strong sw. winds in the northern districts of the British Isles and, on the 8th, the centre was shown off the Norwegian coast near Bergen. The disturbance then moved east-southeastward over Scandinavia and the Baltic and passed into northern Russia, where the pressure remained below 29.6 (751.8) for several days.

XXIII.—On the 12th, the region of least pressure was in Iceland where the barometer read 29.15 (740.4); by the following day the low-area was transferred to northern Scandinavia, the barometer near the centre of disturbance having fallen to 28.98 (736.1), while rainy weather and strong w. and nw. winds prevailed over the northern part of the British Isles and southern Scandinavia. On the 14th, the centre of disturbance maintained about the same position as on the previous day, with pressure slightly lower; on the 15th, the isobar for 28.8 (731.5) extended from the extreme northern part of Scandinavia southeastward over Lapland and the White Sea, while a considerable increase of pressure had occurred over the countries to the southwestward of the low area. On the 16th, the depression remained over the White Sea, and as the barometric gradient became steeper over the Baltic and Scandinavia, strong w. and nw. breezes to gales occurred in these districts. By the 17th, the storm centre had moved southeastward to the government of Kasan, where the barometer now read 28.51 (724.1); strong nw. winds to moderate gales prevailed over the Black Sea and at stations lying southwest of Kasan. Moving eastward with decreasing pressure, the centre was shown in the Ural region on the 18th, the barometer at Ekaterinburg, reading 28.34 (719.8); strong nw. winds to gales continued at stations from Kasan southwestward to the Caucasus, and westward to the thirtieth meridian east of Greenwich. During the 19th, the depression crossed the Ural mountains and disappeared in Siberia.

XXIV.—This was a slight depression which occupied northern Arabia and the regions near the Suez canal on the 15th. On that day the atmospheric pressure in the above districts ranged from 29.72 (754.9) to 29.76 (755.9), which was about .2 inch less than on the preceding day. On the 16th the minimum reading was 29.73 (755.1) at Beirut, Syria, and at Suez the pressure varied from 29.74 (755.4) to 29.77 (756.1); during the day the pressure began to increase and the depression filled in.

XXV.—During the 17th and 18th the falling barometer at Stykkisholm, Iceland, indicated the development of a disturbance in that region. On the 19th the centre was in Iceland, and by the 20th it was near the Färöe Islands, where the pressure had decreased to 28.98 (736.1). The disturbance moved slowly northeastward to the Norwegian coast, having been joined by low area xiv, and during its passage caused showery weather and strong nw. winds to moderate gales in the British Isles, and s. and sw. gales with snow in Scandinavia. On the 22d the centre of disturbance was shown in Sweden, the pressure having increased to 29.3 (744.2); a steep gradient was formed over the northeast coast coasts of Great Britain and the North sea, and strong nw. gales were reported over the last-mentioned. During the day the disturbance moved northeastward, and disappeared in the White Sea region on the 24th.

XXVI.—On the 22d there was a decrease of pressure in northern Italy, and from that date until the 30th, the decrease spread southward and occupied the peninsula. During this period the pressure ranged from 29.65 (753.1) to 29.9 (759.4), and rainy weather and strong winds prevailed over Italy and the adjacent seas.

XXVII.—On the 26th, a deep depression with a well-defined cyclonic movement of the winds, appeared in the Netherlands; at the centre of disturbance the barometer read 29.0 (736.6), and abundant rain fell in France, the Netherlands and northern Germany. In England, over the Channel, and in western France, strong n. and nw. gales occurred, causing more or less damage to property at sea and on shore; in southern and eastern France the winds were w. and sw., and in Germany they were s., while, in Denmark they were e. and se., blowing with the force of a gale in nearly all districts. The disturbance moved northeastward over northern Germany, attended by increasing pressure and decreasing energy; and apparently passed into the Baltic during the 27th, after which it could not be traced as a distinct storm-centre.

XXVIII.—This disturbance appeared to the northward of Scotland on the 27th, the minimum barometric reading being

29.07 (738.4) observed on board the ship "Festina Lente," in N. 62° 28′, W. 2° 27′; Captain Andersen, commanding that vessel reported: "on the 26th, 27th, 28th, and 29th, the wind blew a brisk gale from the north between 8 a. m. and 6 p. m., but from 6 p. m. to 8 a. m. every night it hauled around the compass with the sun." Strong w. winds with rain, snow or sleet prevailed in the northern districts of Scotland, and brisk s. and sw. winds with rain or snow occurred in Scandinavia. During the 28th and 29th the disturbance passed rapidly northeastward along the coast, and disappeared in the region north of Scandinavia on the last-mentioned date.

XXIX.—This disturbance developed near the Norwegian coast immediately after the passage of low area xxviii. on the 28th; showery weather prevailed in northern Scotland and on the west coast of Norway, but no very high winds were reported. On the 29th the centre was over the Baltic, enclosed by the isobar for 29.6 (751.8) and causing rainy weather at stations to the southward. During the 29th it passed over the Baltic Provinces of Russia and, on the 30th, it was in the vicinity of Lake Ladoga where it dissipated.

XXX.—This disturbance appeared off the northwestern coast of Scotland on the 29th, the central pressure being below 29.5 (749.3), while moderate sw. winds and occasional rains prevailed over the British Isles. On the 30th the area of least pressure was shown in southern Norway, where the barometer read 29.39 (746.5). During the day the disturbance appears to have moved south-southwestward, the centre being over the northern part of the English channel on the 31st, while another disturbance appeared to be approaching the Irish coast. Rainy weather continued during the 30th and 31st, but the winds remained moderate in force.

The following descriptions refer to the depressions traced in Asia:

XXXI.—This depression was shown in southeastern Siberia on the 15th, by the decrease in pressure at Vladisvostok, where the barometer read 29.67 (753.6), or about .3 inch lower than on the preceding day. On the 16th the area of low pressure occupied the country between Vladivostok and Nikolaevsk, on the Amoor, where the barometer read, respectively, 29.57 (751.1) and 29.56 (750.8). On the 17th, the disturbance apparently passed into the Pacific, giving cloudy weather and snow in northern Japan.

XXXII.—This depression appeared in the Yellow Sea on the 18th, the barometer at Chee-Foo reading 29.79 (756.7), a fall of about .23 inch. The depression apparently passed eastward, and on the 19th the region of least pressure occupied the northern part of Niphon, where the barometer read 29.5 (749.4), and rainy weather prevailed generally throughout Japan. During the day the storm-centre passed into the Pacific, giving a nw. wind of 30 miles an hour at Nobiru, on the eastern coast of Niphon.

XXXIII.—This depression appeared off the eastern coast of Niphon on the 22d, when the barometer fell about .35 inch at stations on that island. The storm-centre appears to have moved north-northwestward, since, on the following day the minimum barometric readings were reported from the island of Yesso, and the circulation of the winds indicated the presence of the centre to the northwest of the island. By the 24th the pressure had increased to 29.8 (756.9).

XXXIV.—The chart for the 26th showed a considerable decrease of pressure to have occurred in northern Japan; on that day the barometric minima were enclosed by the isobar for 29.4 (746.7), and cloudy, rainy weather was general in nearly all parts of the country. On the 27th the storm-centre was to the northeast of Yesso, and a gradual increase of pressure set in; by the following day the disturbance had passed beyond the range of the observations.

GENERAL REMARKS.

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

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

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

BOUNDARIES OF DISTRICTS.

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

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

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

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

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. On September 1st the elevation of barometer at Commercy changes to 243 meters.

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

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

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

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

JAPANESE SERIES (furnished by the co-operation of the Geographical Bureau, Department of the Interior, through I. Arai, Director of the Imperial Meteorological Observatory at Tokei).—The rainfall is measured at 9.30 a. m., local time, and the conversions are all published as given in the originals. Distinction is generally made between upper and lower clouds, and the amount is given on a scale of 0 to 10. The weather is given in general terms. On September 16th, the elevation of barometer at Hamamatsu changes to 28 meters.

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

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

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

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

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

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

SPANISH SERIES (furnished by co-operation of the Royal Observatory at Madrid, and respective observers).—The movement of the air, except for sub-series, is given in kilometres per hour. The kind of clouds is occasionally given, and the degree of cloudiness on a scale of 0 to 10. The rainfall

at San Juan is measured at 4 p. m., local time, and at San Fernando at midnight. The weather is given in general (Spanish) terms.

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

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

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

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

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

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

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

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

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

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

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

ERRATA.

DAILY BULLETIN, September 1, page 8, H. M. S. "Euryalus," latitude S. 15° 55′, should read S. 17° 55′.

11th, page 2, French, Lescar, reduced barometer 777.7 mm., should read 767.7 mm.

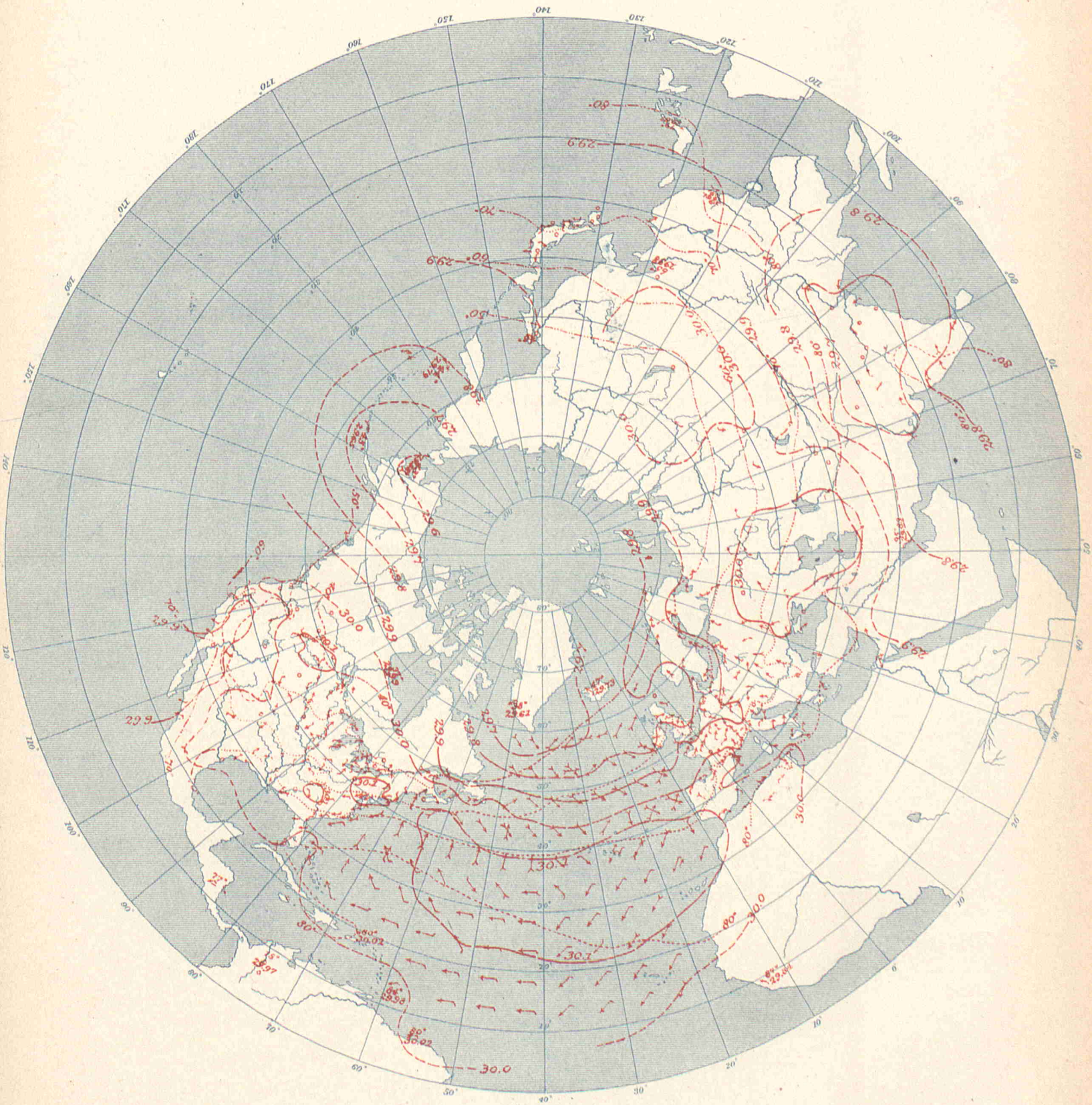
27th. page 4, United States, Cheyenne, temperature, Fah. 31°.7, should read 32.8.

30th, page 4, Spanish sub-series, San Fernando, actual barometer, for 29.00 inches read 29.90.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

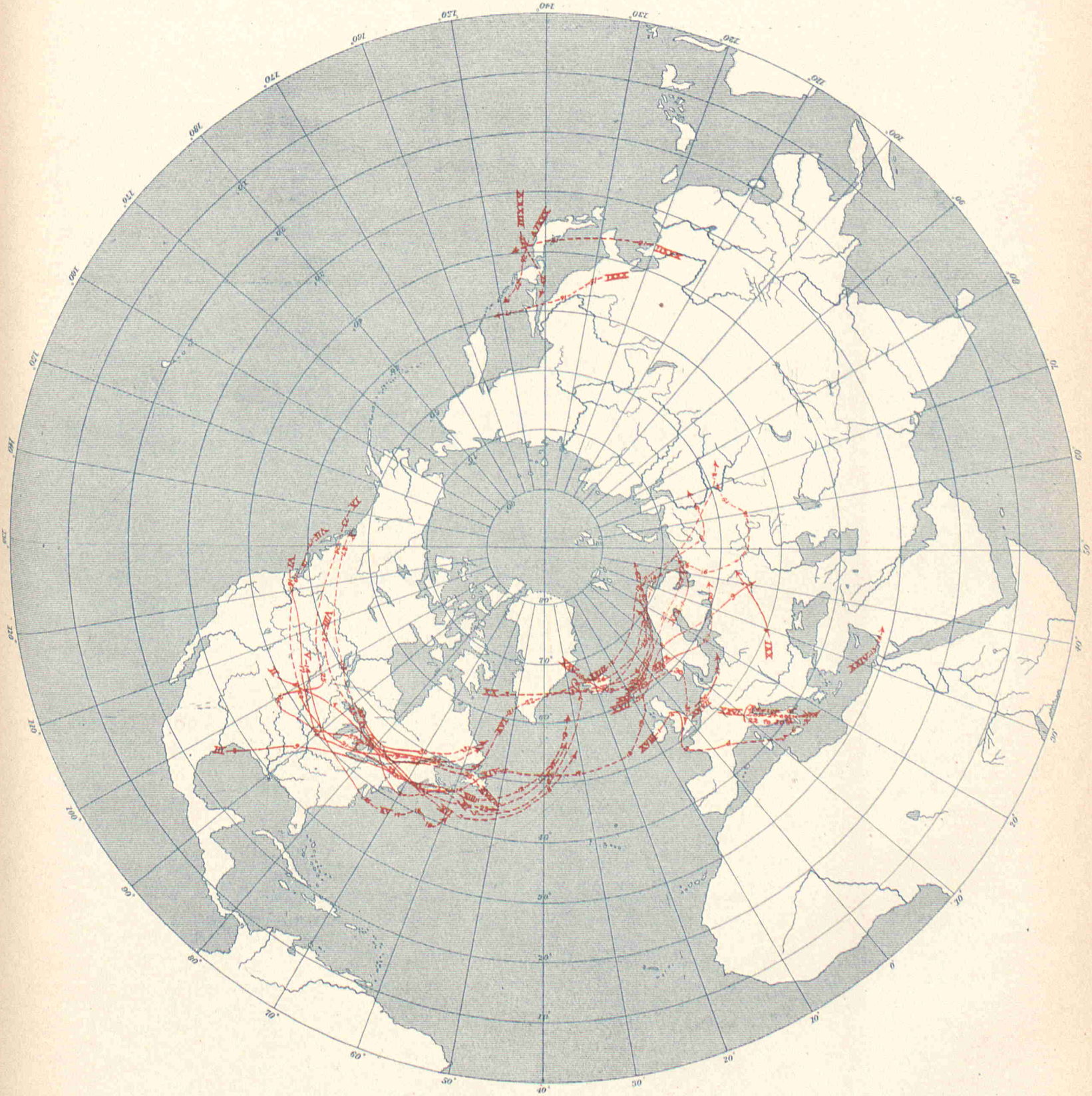
International Chart II. September, 1883. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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

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



UNITED STATES OF AMERICA.

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

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

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF OCTOBER, 1883.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
NOVEMBER, 1884.

10312

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 1, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.91	759 7	75.2	24.0	82	e.			6		0			0	0	clear	Roziere.
Algiers			29.78	756.3	73.8	23.2	41	sw.			3		0			inap.	inap.	clear	Thève.
La Galle			29.78	756.4	74.8	23.8	61	nw.			2		4			0.020	0.5	cloudy	Fonfrède.
Tunis			29.80	756.8	75.9	24.4	59	nne.			3		4			0.165	4.2	cloudy	Delord.
Saida			29.92	759.9															Pérès.
Tebessa			29.85	758.2	71.6	22.0	82	n.			3		3			0	0	pretty fair	St. Martin.
Geriville					66.2	19.0	9	nw.			2		0			0	0	clear	Forfert.
Laghouat			29.93	760.2	74.1	23.4	34	sse.			1		0			0	0	clear	Abraham.
Biskra			29.90	759.5	78.8	26.0	28	w.			3		0			0	c	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.23	767.8	60.4	15.8	46	n.	7	3.1			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.10	764.5	30.19	766.8	55.3	12.9	74	ese.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.10	739.1	29.63	752.7	61.7	16.5	58	sw.			3		2			0.189	4.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.80	731.5	29.54	750.3	63.7	17.6	63	wsw.	3.8	1.7			7			0.173	4.4		Dr. Wierzbiski
Eperies	28.77	730.7	29.62	752.4	60.8	16.0	85	calm			0		9s;fg			0.425	10.8		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.30	718.8	29.67	753.5	70.5	21.4	66	sse.			3		5			0.217	5.5		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.33	719.6	29.65	753.2	53.4	11.9	74	wnw.			1		10			0	0	gloomy	The Staff.
Lemberg	28.67	728.2	29.63	752.6	60.6	15.9	80	s.			4		10			0.398	10.1		Dr. T. Stanecki.
Pola	29.56	750.9	29.67	753.6	68.0	20.0	65	sse.			4		7			0	0		I. R.Hydrographic Office.
Szathmar	29.19	741.4	29.64	752.8	65.3	18.5	80	sw.			5		8			0.122	3.1		Joseph Midlinszky, S. J
Szegedin	29.38	746.2	29.65	753.2	61.5	16.4	88	s.			1		10			0.154	3.9	raining	Karl Stu..cel.
Trieste	29.59	751.5	29.69	754.0	68.9	20.5	61	sw.			3		7			0.087	2.2		Royal Academy.
Vienna	28.91	734.4	29.61	752.1	61.0	16.1	59	w.			2		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.78	756.4	29.88	758.9	49.2	9.6	54	n.	25	11.2			4			0.020	0.5	squally	W. Boswell.
Armagh, Observatory	29.80	756.9	30.04	763.0	51.0	10.6	70	nnw.	10	4.5			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.89	759.2	51.0	10.6	52	nnw.	20	8.9			7					d. clouds	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	49.2	9.6	66	nne.	18	8.0			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.42	747.3	29.81	757.2	50.1	10.1	62	ne.			6		5			0	0	d. clouds	McLandsborough&Preston.
Cardington	29.67	753.6	29.78	756.4	53.6	12.0	66	n.			2.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.56	750.8	29.74	755.4	52.6	11.4	68	n.			1		7					d. clouds	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.67	753.6	29.90	759.4	53.9	12.2	57	n.			4		4					d. clouds	The Staff.
Fort Napier, Natal	27.98	710.7	30.20	767.1	65.5	18.6	52	e.			1		9			blank	blank	gloomy	C. Stares, A.H.C.
Freetown, Sierra Leone	29.77	756.1	30.00	762.0	80.0	26.7	91	s.			3		5					raining	J. W. Smith.
Galway, Queen's College	30.02	762.5	30.06	763.5	52	11.1	73	ne.			4		4			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	69.0	20.6	90	nw.			4		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.76	755.9	29.96	761.0	49.7	9.8	48	nnw.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.58	751.3	29.75	755.6	54.8	12.7	62	n.			5		8					d. clouds	The Staff.
Guernsey	29.54	750 3	29.86	758.4	50.5	10.3	72	n.			2		10					overcast	A. Collenette, F. M. S
Kew, Observatory	29.73	755.1	29.77	756.1	51.9	11.1	60	n.	19	8.5			7					d. clouds	The Staff.
Leicester, Museum	29.53	750.0	29.79	756.7	50.5	10.3	63	n.			3.		10					overcast	J. C. Smith.
Malta, Mediterranean	29.64	752.8	29.71	754.6	79.6	26.4	78	nw.			2		2			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.01	762.2	30.05	763.3	83.0	28.3	80	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.32	744.7	29.84	757.9	48.3	9.1	74	nne.			3		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.58	751.3	29.80	756.9	50.4	10.2	70	nw.			5		2					blue sky	The Staff.
Plymouth	29.78	756.4	29.86	758.4	53.5	11.9	59	nnw.			5		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.87	758.7	29.97	761.2	46.9	8.3	68						3					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.82	757.4	29.88	758.9	81.0	27.2	52	calm			0		0					misty	W. H. Lyne.
Sheffield	29.53	750.0	29.81	757.2	52.1	11.2	76	ne.			3		5			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.90	759.4	50.0	10.0	68	n.			4		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	48.0	8.9	63	n.	14	6.3			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					53.9	12.2	67	nw.			1.5		7					d. clouds	Rev.O.H.Griffiths,F.M.S
Truro, Royal Institution	29.89	759.2	29.96	761.0	58	14.4	76	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.14	765.5	53.7	12.1	67	n.	16	7.2			4					d. clouds	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.38	746.2	29.78	756.4	79.2	26.2	66	e.	7.4	3.3		3 c	0	w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.86	758.4	29.90	759.4	37.0	2.8		calm	0	0		0	2 k			0.110	2.8	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	759.9	45	7.2	87	nw.	9	4.0			10 n			1.290	32.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.84	757.9	29.91	759.7	36	2.2	82	n.	5	2.2		0	0			0.16	4.1	clear	G. A. Blair.
Cornwall, Ontario	29.78	756.4	29.98	761.5	33.6	0.9	83	ne.			1	0	9 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B																			H A. Johnson.
Edmonton, N. W. T *	27.70	703.6			21	—6.1	57	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.97	761.2	29.99	761.7	33	0.6	88	calm	0	0		10 k	0	calm		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.98	736.1	29.86	758.4	19	— 7.2	91	nw.	1	0.4		0	0			0	0	clear	James Stewart.
Fredericton, N. B	29.86	758.4	29.92	760.0	39.1	3.9	63	ne.	5	2.2		1 c	0			0.100	2.5	fair	Prof.Thos. Harrison
Grand Manan, N. B	29.84	757.9	29.90	759.4	40	4.4	82	n.	13	5.8			10 k		n.	0.53	13.5	cloudy	J. Chipman Seeley
Granton, Ontario	28.91	734.3	30.08	764.0	26.0	— 3.3	62	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.68	753.9	29.81	757.2	47	8.3	93	n.	7	3.1			10 n			1.954	49.6	light rain	A. Allison.
Hamilton, Ontario	29.60	751.8	30.01	762.2	30.5	— 0.8	90	sw.			1	2 c	0	w.		0.55	14.0	fair	Geo. Dickson, B. A.
Kingston, Ontario*	29.66	753.4	30.01	762.2	38	3.3	85	n.	2	0.9		2 c	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.71	754.6	29.75	755.6	58.0	14.4	94	s.			3		10 n			1.09	27.7		C. H. Rigby.
London, Ontario	29.13	739.9	30.07	763.8	27.8	— 2.3	100	calm				0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.52	699.0	29.84	757.9	34	1.1	66	calm	0	0		0	0			0	0	smoky	John Ewart.
Minnedosa, N. W. T	27.89	708.4	29.89	759.2	19	— 7.2	80	nw.	8	3.6			hz.			0	0	dense haze	Rev. J. M. Wellwood.
Montreal, Quebec*	29.79	756.7	30.00	762.0	37	2.8	89	e.	2	0.9		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.78	756.4	30.00	762.0	36.9	2.7	96	calm	0	0		0	8 ks			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.31	744.5	30.04	763.0	28	— 2.2	88	e.	2	0.9		0	0			0.06	1.5	clear	Rev. R. Mosley.
Peterboro, Ontario	29.27	743.4	30.00	762.0	38.7	3.7	84	w.			1	0	0			0	0	blue sky	Wm. O'Connor,M.A.
Port Author	29.14	740.1	29.87	758.7	29	— 1.7	80	w.	6	2.7		2 cs	2 s			0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.32	744.7	30.04	763.0	33	0.6	100	n.	5	2.2		0	0			0	0	clear	H Morgan
Port Stanley, Ontario	29.37	746.0	30.04	763.0	31	— 0.6	88	e.	4	1.8		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.63	701.8	30.05	763.3	14	—10.0	76	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.62	752.3	29.99	761.7	36	2.2	96	calm	0	0		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.50	749.3	30.07	763.8	29	— 1.7	67	s.	2	0.9		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B	29.83	757.7	29.88	758.9	38	3.3	81	n.	3	1.3		2 k	2 ks	ne.		0.25	6.3	fair	
St. John, N. B	29.72	754.9	29.87	758.7	39.0	3.9	84	n.	16	7.2		6 cs	2 k	ne.	n.	0.045	1.1	d.clouds	G. Hutchinson.
Saint John's, N. F	29.76	755.9	30.00	762.0	47	8.3	100	se.			2		10 ks			0.10	2.5	cloudy	J. Higgins.
St. Pierre, N. F			29.88	759.0	55.4	13.0		s.			2					0.102	2.6		The Commandant.
Saugeen, Ontario*	29.28	743.7	30.04	763.0	27	— 2.8	88	e.	7	3.1		0	0			0.03	0.8	clear	
Stratford, Ontario	28.78	731.0	30.07	763.8	26.0	— 3.3	94	calm	0	0		0	0			0	0	blue sky	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CANADIAN.—Continued.																			
S. W. Point, Anticosti	29.76	755.9	29.79	756.7	37	2.8	85	n.			4		0			0	0	clear	Miss Grace Pope.
Sydney, C. B.	29.64	752.8	29.70	754.4	57	13.9	100	sw.	6	2.7			10 n			1.54	39.1	cloudy	[illegible], C. E.
Toronto, Ontario*	29.65	753.1	30.04	763.0	37	2.8	85	e.	6	2.7		0	2 s			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	28.97	735.8	30.09	764.3	29.3	— 1.5	97	w.	3	1.3		0	0			0	0	hazy	Prof. N Wolverton, M. A.
Yarmouth, N. S*	29.76	755.9	29.83	757.7	44	6.7	96	n.	8	3.6			10 s		n.	1.00	25.4	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.21	767.3	30.24	768.1	62.0	16.7	77	se.	6.7	3.0		0	1 s			0	0	fine	I Garfelt.
Springbo[illegible]	27.87	707.9			79	26.1	33									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.86	758.4	29.94	760.4	54.5	12.5	94	s.			4	0	10					misty	Samuel Redolez.
Iquique	29.95	760.6	29.97	761.3	62.4	16.9	73	sw.			3							cloudy	Rafael Moreno.
Niebla	29.58	751.3	29.69	754.0	47.1	8.4	86	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.89	759.2	29.98	761.4	57.6	14.2	87	nw.			2	6 c	0	nw.				fair	Manuel Tobar.
Punta Corona	30.08	763.9	30.26	768.7				nw.			1	0	10			0.228	5.8	cloudy	Francisco Alvarado.
Valparaiso	29.84	758.0	29.98	761.6	57.2	14.0	86	s.			1	7	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.38	644.6																	A. Gueluy.
Zi-Ka-Wei, near Shanghai.	30.08	763.9	30.11	764.9	60.1	15.6	79	n.	4.5	2.0		2 ck	0	sw.		0	0	fair	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.44	747.7	29.48	748.9	50.4	10.2	94	nne.	13	6			10					raining	Oversergent Fischer.
Fanoe	29.51	749.5	29.53	750.0	51.8	11.0	81	nnw.			2		9					raining	Overloerer Lauridsen.
Godthaab, Greenland	30.17	766.4	30.22	767.5	33.8	1.0	77	s.			2		1						S. Kleinschmidt.
Jacobshavn, Greenland	30.11	764.8	30.16	766.0	33.4	0.8		w.			6		8					snowing	
Stykkisholm, Iceland	29.91	759.7	29.95	760.8	45.7	7.6	88	sw.			2		10						A. O. Thorlacius.
Thorshavn	30.05	763.2	30.07	763.8	44.8	7.1	74	n.	9	4			4						Overloerer Bergh.
Vestervig	29.39	746.6	29.48	748.9	54.9	12.7	73	ne.			4		5						Loerer Oesterhol.
EGYPTIAN.																			
Cairo	29.84	757.8			83.8	28.8		ne.	5.8	2.6			2 k			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.22	742.3	29.87	758.6	56.8	13.8	78	wnw.			1		10	nw.	nw.	0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.40	746.7	29.95	760.7	55.4	13	79	se.			1		5	nw.		0.008	0.2	cloudy	M. Nicot, Director.
Avignon, Normal School	29.66	753.3	29.74	755.3	67.3	19.6	51	n.			1			nw.		0	0		M. Giraud, Director.
Bar-sur-Seine	29.15	740.3	29.70	754.3	53.4	11.9	70	wsw.			2		8 kn		nw.	0.039	1.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.42	747.2	29.68	753.9	57.2	14	65	nw.			1		8		nw.	0.142	3.6	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.76	730.4	29.62	752.3	49.6	9.8	92	se.			1		10		n.	0.28	7.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.53	750.1	29.79	756.6	61.3	16.3	56	wsw.			1		8			0.685	17.4	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.22	742.3	29.77	756.1	57.2	14	83	wsw.			1		n		wsw.	0.094	2.4		M. Malet, Director.
Brest, Naval Observatory	29.68	753.8	29.92	760.0	55.4	13.0	74	n.			2		4		n.	0.059	1.5		M. de Kermarée, Dir.
Caen, Normal School	29.64	752.8	29.71	754.6	53.6	12	86	nw.			1				nw.	0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.30	744.3	29.62	752.3	54.1	12.3	80	ssw.			1		10			0.602	15.3	covered	M. Jadot, Director.
Charleville, Normal School	29.10	739.0	29.61	752.0	53.6	12.0	83	w.			1		10					raining	M. Noel, Director.
Clermont-Ferrand Obs'y	28.40	721.4	29.74	755.5	55.4	13.0	55	wnw.			2		8			0.059	1.5		M. Allnard, Director.
Cluny, Normal School	28.91	734.2	29.74	755.3	55.6	13.1	74	w.			1				w.	0.157	4.0		M. de Villemontée, Dir.
Commercy, Normal School.	28.85	732.7	29.71	754.6	48.6	9.2	79	w.			4		8 kn	w.	w.	0.677	17.2	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.22	691.3	29.71	754.6	57.2	14	60	sw.			2		2 k		n.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.59	726.2	29.69	754.0	63.5	17.5	46	nw.			2		5		nw.	0.047	1.2		M. Kiun, Director.
Grenoble, Normal School	28.99	736.4	29.76	755.8	53.6	12	95	e.			1		kn		e.	0.028	0.7		M. Ablard, Director.
Guéret, Normal School	28.19	716.0	29.77	756.1	51.8	11	84	sw.			1		n		w.	0.12	3.		M. Delorme, Dir.
Lamballe, Normal School.	29.60	751.9	29.88	758.9	55.0	12.8	85	nw.			4		10		nw.	0.24	6.	covered	M. Ollitrault, Director
Lescar, Normal School	29.26	743.3	29.83	757.6	57.9	14.4	76	sw.			1		10			0.941	23.9	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.74	755.3	29.84	757.9	60.1	15.6	56	nnw.			2		5	nw.	n.	0.008	0.2	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.70	729.0	29.75	755.6	55.8	13.2	78	se.			1		8 n		w.	0.185	4.7	very cloudy	M. Andre, Director.
Mans, Normal School	29.45	748.1	29.76	755.9	55.8	13.2	71	w.			1		5		nw.	0.382	9.7	cloudy	M. Richard, Director.
Marseille, Observatory	29.45	748.0	29.72	754.8	64.9	18.3	58	w.			2		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.82	630.4	29.66	753.4	50.0	10.0	33	w.	9.4	4.2			4		w.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.61	752.1	29.72	754.9	64.8	18.2		sw.			2		2	e.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	28.92	734.5	29.71	754.5	49.6	9.8	86	w.			1		n		w.	0	0		M. Hasse, Director.
Nantes, Observatory	29.65	753.2	29.82	757.3	61.0	16.1	56	nnw			0-1		7 kn; n		nw.	0.039	1.0		M. Latroque, Director.
Perpignan, Observatory	29.67	753.7	29.78	756.5	67.8	19.9	40	nw.	13.0	5.8			9		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	20.99	533.1			26.6	— 3.0		w.			1		10		w.	0.079	2.0	covered	M. Vaussenat, Director.
Privas, Normal School	28.69	728.8	29.74	755.5	64.6	18.1	57	s.			1		2	e.	se.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.88	631.9			35.8	2.1	100	wnw.			6		10			0.378	9.6	foggy	M. Allnard.
Rochefort, Naval Obs'y	29.74	755.4	29.77	756.2	60.8	16.0	73	calm			0		5		wnw.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.60	751.9	29.82	757.3	55.0	12.8	95	nw.			1		5	nw.	nw.	0.20	5.	cloudy	M. Brotier, Director.
Rodez, Normal School	27.69	703.4	29.78	756.5	63.0	17.2	78	nw.			1	c			se.	0	0		M. Seger, Director.
Rouen, Normal School																			M. Mouillot, Dir.
St Lô	29.61	752.2	29.76	755.9	51.8	10.8	100	nw.			1				nw.	0.16	4.		M. Delaplanche, Dir.
Saint Maur, Observatory	29.53	750.1	29.70	754.3	57.7	14.3	67	wsw.			1		8		wnw.	0.028	0.7	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.11	739.4	29.83	757.7	61.2	16.2	64	nw.			4		5	w.		0.138	3.5	cloudy	M. Baillard, Director.
Tours	29.77	756.1	29.95	760.6	58.6	14.8	65	wsw.			1		5	w.	nw.	0.031	0.8	cloudy	M. de Tastes.
Versailles, Observatory	29.21	742.1	29.70	754.4	56.1	13.4	69	n.			2		9			0.157	4.0	almost cov'd	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.71	754.6	29.86	758.4	58.5	14.7	82	w.	4.0	1.8			8 k; kn		n.	2.335	59.3		M. Cartier, Director.
GERMAN.																			
Ansbach	28.18	715.7	29.62	752.3	49.6	9.8	82	sw.			2		10	sw.		0.004	0.1		Prof. Jnedt.
Bamberg	28.73	729.8	29.56	750.8	53.8	12.1	67	sw.			2		7 k	w.		0	0		Prof. Dr. Hoh.
Berlin	29.37	746.0	29.51	749.5	59.4	15.2	74	sw.			2		6			0.602	15.3		Dr. Lensch.
Breslau	29.08	738.5	29.60	751.8	61.3	16.3	49	sw.			2		2	ssw.		0	0		Royal University Obs'y.
Carlsruhe	29.19	741.3	29.64	752.8	52.2	11.2	78	sw.			2		10	sw.		0.016	0.4		Albert Senz.
Cassel	28.77	730.7	29.48	748.8	53.2	11.8	74	s.			6		7	s.		0.201	5.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.19	741.4	29.55	750.6	52.3	11.3	85	ssw.			2		10			0.413	10.5		Physical Society.
Friedrichshafen	28.29	718.5	29.69	754.0	53.8	12.1	67	sw.			6		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.40	746.8	29.49	749.1	54.3	12.4	78	se.			2		10			0.315	8.0		E. Preiler.
Kiel	29.49	749.0	29.50	749.4	54.3	12.4	82	calm			0		10			0.020	0.5		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.12	739.6	29.53	750.1	59.7	15.4	59	sw.			3		6	ssw.		0.322	8.2		H. Leppig, Asst.
Magdeburg	29.30	744.2	29.47	748.6	58.6	14.8	68	ssw.			2		8	s.		0.016	0.4		Weather Observatory.
Memel	29.52	749.8	29.57	751.0	57.7	14.3	82	sse.			2	10 cs							Issermann.
Munich	27.84	707.1	29.68	753.8	54.1	12.3	66	nw.			3		5	w.		0.205	5.2		Central Station.
Neufahrwasser	29.47	748.6	29.49	749.0	58.1	14.5	73	sw.			2		7			0.177	4.5		A. Lothes.
Neustadt, Palatinate	29.05	737.8	29.57	751.0	52.0	11.1	78	sw.			3		10			0.374	9.5	raining	Dicknether.
Stuttgart	28.67	726.3	29.55	750.6	54.7	12.6	68	w.			4		9	w.		0.059	1.5		Prof. Dr. Schoder.
Wustrow	29.45	747.9	29.47	748.5	54.3	12.4	74	n.			2		10 s			0.150	3.8		Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.2	29.95	760.6	81.9	27.7		s.			4.0		1 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.81	757.2	29.86	758.5	82.0	27.8	75	sw.	28.0	12.5			3	sw.		0	0	d. clouds	
Deesa	29.34	745.3	29.82	757.3	82.3	27.9	75	ne.	6.0	2.7			7	ne.		0.23	5.8	drizzling	
Bombay	29.82	757.4	29.86	758.4	80.9	27.2	86	wnw.	16.0	7.2			6	nw.		0.09	2.3	d. clouds	
Poona, Yarrowda	27.99	711.0	29.86	758.3	75.8	24.3	86	nw.	10.0	4.5			8			0.02	0.5	d. clouds	
Trichinopoly	29.53	750.2	29.81	757.2	90.6	32.6	54	e.	0.2	0.1			5			0	0	d. clouds	
Bellary	28.30	718.9	29.74	755.4	89.8	32.1	40	w.	8.0	3.6			5			0	0	d. clouds	
Belgaum	27.32	694.0	29.88	759.0	71.1	21.7	85	w.	11.0	4.9			4		w.	0.02	0.5	d. clouds	
Lahore	29.07	738.3	29.80	756.9	86.0	30.0	53	calm	0	0			0			0	0	blue sky	
Roorkee	28.87	733.2	29.75	755.7	87.2	30.7	51	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Agra	29.23	742.3	29.78	756.3	94.6	34.8	31	sw.	2.0	0.9			4		sw.	0	0	d. clouds	
Nagpur	28.73	729.6	29.76	755.8	85.4	29.7	57	calm	2.0	0.9			8		s.	0.20	5.1	d. clouds	
Jubbulpore	28.46	722.8	29.80	756.8	87.4	30.8	48	ne.	4.0	1.8			3	ne.		0	0	d. clouds	
Lucknow	29.40	746.8	29.77	756.2	86.1	30.1	57	calm	0	0			0			0	0	blue sky	
Allahabad	29.46	748.4	29.77	756.2	84.7	29.3	62	calm	0	0			3			0	0	d. clouds	
Patna	29.59	751.5	29.77	756.1	87.4	30.8	55	e.	3.1	1.4			0			0	0	blue sky	
Hazaribagh	27.80	706.0	29.79	756.6	82.3	27.9	45	nw.	4.1	1.8			0			0	0	blue sky	
Cuttack	29.70	754.3	29.78	756.4	84.4	29.1	80	calm	0	0			5			0	0	d. clouds	
Calcutta, Alipore	29.75	755.5	29.77	756.1	84.0	28.9	76	ese.	0.5	0.2			3			0	0	d. clouds	
Dhubri	29.65	753.2	29.77	756.2	80.7	27.1	74	calm	0	0			0			0	0	blue sky	
Chittagong	29.72	754.8	29.81	757.1	80.7	27.1	90	sw.	2.2	1.0			6			0	0	d. clouds	
Sibsagar	29.45	748.0	29.78	756.5	83.2	28.4	85	ne.	1.0	0.4			2			0	0	d. clouds	
Jeypore	28.41	721.5	29.85	758.2	79.7	26.5	71	ene.	3.3	1.5			9		ene.	0	0	d. clouds	
Zanzibar	29.99	761.7			80.7	27.1	75	sse.					2	sse.		0	0	d. clouds	
ITALIAN.																			
Udine	29.26	743.1	29.66	753.4	65.1	18.4	59	calm	0	0			8			0.063	1.6		Prof. Giovanni Clodig.
Milan	29.13	739.9	29.65	753.0	63.0	17.2	41	w.	4.3	1.9			2	w.		0.051	1.3		Prof. G. V. Schiapparelli
Padua	29.53	750.1	29.64	752.9	65.7	18.7	56	ne.	2.5	1.1			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.73	729.8	29.64	752.8	62.6	17.0	60	wnw.	2.5	1.1			2			0.122	3.1		Prof. F. F. Denza.
Genoa	29.45	748.0	29.64	752.9	67.1	19.5	51	se.	8.7	3.9			2	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.74	704.5	29.65	753.2	59.0	15.0	67	ssw.			2		2			0	0		Prof. D. C. Bruno.
Pesaro	29.64	752.8	29.69	754.0	68.4	20.2	66	sw.	6.9	3.1			6	wsw.		0.020	0.5		Prof. Luigi Guidi.
Florence	29.45	748.1	29.71	754.5	60.8	16.0	74	ssw.			2		10			0.142	3.6		Prof. Costantino Pittei
Leghorn	29.54	750.3	29.63	752.5	68.5	20.3	55	w.	16.1	7.2			4			0.039	1.0		Prof. P. Monte.
Rome	29.55	750.6	29.72	755.0	71.2	21.8	49	ssw.	8.7	3.9			3	sw.		0.071	1.8		Prof. P. Tacchini.
Lecce	29.53	750.0	29.78	756.4	75.6	24.2	78	sse.	12.5	5.6			10	s.		0.047	1.2		Prof. C. de Giorgi.
Cosenza	28.94	735.0	29.82	757.3	73.8	23.2	65	see.	3.1	1.4			9	se		0.039	1.0		Prof. D. Conti.
Cagliari	29.56	750.9	29.75	755.7	67.8	19.9	58	w.			4		10			0.039	1.0		Prof. A. Pacinotti.
Palermo	29.53	750.0	29.78	756.3	74.3	23.5	65	nnw.	3.8	1.7			7	wsw.		0.006	0.2		Prof. G. Cacciatore.
Syracuse	29.72	754.9	29.76	756.0	74.1	23.4	67	s.	6.3	2.8			7	sw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.25	742.9	29.76	755.9	68.5	20.3	74	sw.	5.6	2.5			9	sw.		0.067	1.7		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.93	760.0	29.95	760.7	55.3	12.9	97	n.			2	0	0			0.110	2.8	clear	H. Hattori.
Awomori	29.87	758.7	29.91	759.7	54.0	12.2	81	sw.	7.3	3.3		0	1 ks			0.040	1.0	clear	K. Ogawa.
Hamamatsu	29.83	757.7	29.93	760.2	64.8	18.2	95	nnw.			2		9 s		nw.	0.134	3.4	cloudy	Sekigawa & Yamazaki.
Kagoshima	29.97	761.2	29.98	761.5	69.4	20.8	76	n.			2		10 s			0.079	2.0		G. Miyanohaza.
Kanazawa	29.90	759.4	30.00	762.1	59.9	15.5	95	calm	0	0		0	6 s			0.322	8.2	cloudy	S. Endo.
Kioto	29.80	756.8	29.97	761.2	62.0	16.7	95	nnw.	0.6	0.3			10 s			0.019	0.5	cloudy	M. Tojima.
Kochi	29.97	761.2	29.99	761.7	67.8	19.9	84	wnw.	3.6	1.6			10 s			0	0	overcast	K. Kusunose.
Miasaka	29.97	761.2	30.00	761.9	64.8	18.2	95	nne.			1		10 n		w.	0.220	5.6	raining	K. Masusaki
Miyako	29.77	756.1	29.87	758.9	58.0	14.4	99	sw.	3.0	1.3		0	1 s			0.248	6.3	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.80	756.9	29.99	761.7	66.3	19.1	76	ne.	3.6	1.6		0	4 s			0	0	clear	S. Takehayasu.
Niigata	29.95	760.7	29.99	761.7	61.8	16.6	92	n.	0.5	0.2		0	9 ks		n.	0.280	7.1	overcast	Satoo & Tomikawa.
Nobiru	29.90	759.4	29.91	759.8	62.6	17.0	71	nw.	13.3	6.0		0	3 s			0.010	0.3	fair	Yoshino & Midzushina.
Numazu	29.69	759.2	29.93	760.1	65.7	18.7	96	e.			1		10 n			0.394	10.0	raining	K. Kaneda.
Osaka	29.96	761.0	29.98	761.4	64.4	18.0	90	ne.	1.5	0.6		0	5 s			0.020	0.5	fair	H. Omura.
Sakai	30.00	761.9	30.01	762.1	68.0	20.0	74	n.			4	0	4 ks		n.	0.012	0.3	fair	Yamawchi & Sakamoto.
Shimonoseki	29.87	758.7	30.02	762.4	64.9	18.3	84	calm			0	0	1 s			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.87	758.7	29.94	760.6	64.7	18.2	98	nnw.	2.0	0.9			10 s			0.375	9.5	overcast	The Staff.
Wakayama	29.93	760.1	29.98	761.4	64.7	18.2	90	calm	0	0			10ck;s			0.050	1.3	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	74.8	23.8	67	sse.	15.0	6.7		4c;cs	6k;n	wnw.	e.	0.02	0.5	cloudy	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.01	762.2	59.5	15.3	90	n.	0.9	0.4		3 c	7ck;n	se.	se.	0.308	7.8	overcast	Prof. M. Leal.
Mazatlan	29.64	752.7	29.89	759.3	77.5	25.3	98	e.	1.6	0.8		2 cs	0	sw.		0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata					78	25.6		ne.	8.3	3.7		0	4 k		s.	0	0		H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.60	751.8	29.60	751.8	54.7	12.6		nw.			5					0.866	22.0		
Groningen	29.44	747.7	29.49	749.1	53.2	11.8		ene.			1					0	0		
Helder	29.54	750.3	29.54	750.3	50.4	10.2		nw.			3					0.681	17.3		
Hellevoetsluis	29.55	750.6	29.55	750.6	51.6	10.9	90	nnw.			2					0.398	10.1		
Utrecht	29.49	749.0	29.54	750.2	55.6	13.1	84	n.			2		5			0.146	3.7	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			81.7	27.6	72	n.	0	0			10			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.59	751.6	29.65	753.2	51.8	11.0	52	ne.	9	4			8			0	0		
Brono	29.82	757.4	29.86	758.4	43.2	6.2	75	sw.			4		7			0.071	1.8		
Christiania	29.61	752.1	29.76	755.9	42.3	5.7	57	ene.	9	4			10			0.067	1.7	raining	
Gjæsvær	29.28	743.8	29.31	744.4	38.8	3.8		w.			8		10						
Lodingen	29.70	754.3	29.74	755.5	39.6	4.2	70	w.			4		10			0.039	1.0		
PORTUGUESE.																			
Angra, Azores					69.1	20.6	80	ese.	11.9	5.3			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.10	764.5	30.19	766.7	73.4	23.0	42	sw.	8.7	3.9			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.2	30.07	763.7	59.4	15.2	70	n.	15.4	6.9			4			0.098	2.5		The Staff.
Ponta Delgada, Azores	30.32	770.0	30.39	771.8	70.5	21.4	70	ne.	7.4	3.3			4			0	0		
Saint Paul de Loando	29.76	755.8	29.96	760.9	77.2	25.1	84	nw.	1.3	0.6			2			0	0		
San Salvador, Congo	28.16	715.3	30.00	762.0	78.3	25.7	62	n.			1		10			0	0		
Serra da Estrella	25.20	640.0	30.02	762.6	38.1	3.4	97	nw.	19.2	8.6			9			0.307	7.8		
RUSSIAN.																			
Akmolinski	28.89	733.9	29.94	760.4	66.4	19.1	32	w.	16	7		2 c	0			0	0		Major K. Lasarew.
Archangel	29.72	754.9	29.74	755.4	41.2	5.1	68	w.	4	2		2 cs	0			0	0		Capt. Sselitwerstow
Asburada	30.01	762.3	29.92	759.9	78.8	26.0	72	nnw.	11	5		0	0			0	0		
Astrakhan	30.01	762.3	29.94	760.5	73.6	23.1	60	ssw.	4	2			10 s;n			inap.	inap.		Capt. Wisganow.
Baku	30.00	762.0	29.95	760.8	75.7	24.3	80	sse.	13	6		0	0			0	0		
Barnaul	29.53	750.1	30.03	762.7	52.9	11.6	62	w.	4	2			9			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.26	743.2	29.73	755.1	44.6	7.0	99	calm	0	0			10 s			0.016	0.4	light fog	
Dorpat	29.40	746.8	29.64	752.9	51.1	10.6	95	ene.	2	1			10 n			0.106	2.7	foggy	Observatory.
Ekaterinburg	28.86	733.0	29.81	757.2	54.5	12.5	62	wsw.	13	6			10			0.008	0.2		Meteorological Obs'y.
Elissawetgrad	29.32	744.8	29.75	755.7	73.9	23.3	50	wsw.	9	4		0	5 ks			0	0		
Irkutsk	28.31	719.0	29.96	760.9	45.5	7.5	53	calm			0		2			c	0		
Kasalinsk																			Observatory.
Kasan	29.44	747.7	29.70	754.3	64.9	18.3	62	nne.	9	4		0	7 k			0	0		
Kem	29.67	753.6	29.72	754.9	42.1	5.6	51	w.	4	2		0	0			0	0		Lagorio & Sastyrea.
Kertch	29.84	757.8	29.86	758.4	78.6	25.9	58	wsw.	7	3		2cs	0			0	0		Observatory.
Kieff	29.06	738.0	29.66	753.4	68.4	20.2	60	ese.	2	1		c;cs	7 ks			0	0		
Koslov	29.14	740.2	29.63	752.7	60.6	15.9	88	ssw.	4	2			10 n			0	0		E. Quaas.
Libau	29.61	752.0	29.63	752.6	57.6	14.2	83	e.	7	3			10			0	0		Meteorological Obs'y.
Lugan	29.53	750.1	29.73	755.1	74.5	23.6	60	sw.	18	8			7			0.008	0.2		Meteorological Obs'y
Moscow	29.17	740.9	29.63	752.6	59.4	15.2	87	calm	0	0			10 ks			0	0		Capt. Kurdakow.
Nikolaiev	29.71	754.6	29.78	756.4	70.8	24.9	51	wsw.	18	8		1 cs	0					raining	Iwanow.
Nikolaievsk-on-the-Amoor	29.47	748.6	29.56	750.8	51.4	10.8	90	calm	0	0			10 n						

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Pekin, China	29.87	758.7	30.01	762.3	61.5	16.4	69	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.71	754.5	30.05	763.2	71.2	21.8	34	n.	1.1	0.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.56	750.7	29.76	755 8	37.9	3.3	83	ne.	9	4	.....	.....	10	.....	.....	0.039	1.0	light clouds	Dr. Bergmann.
Pinsk	29.14	740.2	29.62	752.3	66.7	19.3	63	sw	7	3	.....	0	0	.....	.....	0.024	0.6	.....	
Poti	29.93	760.2	29.96	761.0	80.6	27.0	94	s.	4	2	.....	0	2 k	.....	.....	0	0	.....	
St. Petersburg	29.65	753.0	29.67	753.6	50.4	10.2	93	ne.	9	4	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.59	700.7	30.02	762.6	61.7	16.5	84	calm	0	0	.....	3 ck	0	.....	.....	0.012	0.3	.....	
Semipalatinsk	29.44	747.8	30.09	764.3	59.9	15.5	47	calm	0	0	.....	.....	4	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.69	754.0	29.89	759.2	73.0	22.8	75	sw.	27	12	.....	0	7 ks	.....	.....	0	0	.....	
Staroi Bykhov	29.11	739.4	29.65	753.0	65.1	18.4	64	s.	9	4	.....	cs	6 k	.....	.....	0.106	2.7	.....	
Tashkend Laboratory	28.34	719.8	29.95	760.8	72.0	22.2	44	calm	0	0	.....	cs	7 k	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.52	724.5	29.87	758.8	78.3	25.7	41	n	4	2	.....	0	6 ks	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.51	698.8	29.95	760.7	64.8	18.2	51	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	
Viatka	29.08	738.5	29.69	754.2	54.0	12.2	94	nw.	2	1	.....	.....	10	.....	.....	0.130	3.3	.....	
Warsaw	29.17	740.8	29.58	751.3	60.3	15.7	72	w.	4	2	.....	0	5 k	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.65	753.0	29.94	760.5	34.9	1.6	86	wsw.	7	3	.....	.....	10	.....	.....	0.055	1.4	raining	M. O. Marks.
Scottish.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.65	753.2	29.76	755.8	67.6	19.8	61	se.	10.7	4.8	.....	0	5	.....	.....	0.091	2.3	.....	Antonio Molins.
Bilbao, Met. Obs'y	29.91	759.6	29.97	761.1	60.8	16.0	36	s.	4.7	2.1	.....	3	2	se.	.....	0.394	10.0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.93	684.1	29.97	761.1	46.2	7.9	82	ne.	1.8	0.8	.....	.....	10	.....	.....	0.067	1.7	covered	Domingo Martin.
Madrid, Royal Obs'y	27.67	702.8	29.86	758.5	62.2	16.8	68	s.	9.2	4.1	.....	.....	9	.....	.....	inap.	inap.	almost cov'd	The Staff.
Murcia, Met. Obs'y	29.68	753.9	29.80	757.0	70.7	21.5	51	wsw.	3.6	1.6	.....	3	5	e.	.....	0	0	clouds	Olayo Diaz, Director.
Oviedo	29.19	741.3	29.95	760 6	50.0	10.0	93	e.	9.2	4.1	.....	.....	10 n	.....	w.	1.295	32.9	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.11	739.5	30.01	762.3	56.1	13.4	66	nw.	9.8	4.4	.....	.....	8	.....	.....	0.453	11.5	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.98	761.4	30.04	763.1	76.7	24.8	87	e.	3.4	1.5	.....	cs	k	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.8	80.0	26.7	80	ese.	2.2	1.0	.....	0	7 ks	.....	.....	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.0	30.06	763.6	65.1	18.4	67	w.	18.8	8.4	.....	0	3	.....	w.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.84	758.0	29.93	760.3	81.0	27.2	86	calm	0	0	.....	4 k	3 kn	se.	se.	0.079	2.0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.75	755.6	29.79	756.6	40.3	4.6	59	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Umea	29.77	756.2	29.82	757.5	43.5	6.4	45	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	29.81	757.1	29.86	758.4	49.6	9.8	47	nne.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	29.48	748.7	29.65	753.2	46.4	8.0	86	nne.	.....	.....	6	.....	10	.....	.....	0.717	18.2	.....	
Wisby	29.48	748.7	29.54	750.2	57.9	14.4	87	e.	.....	.....	2	.....	10	.....	.....	0.098	2.5	.....	
Sub-series.																			
Upsala	29.59	751.5	29.67	753.7	44.6	7.0	86	nne.	15.9	7.1	.....	.....	10	.....	ne.	0.094	2.4	.....	H.H. Hildebrandesson.
Swiss.																			
Geneva	28.33	719.6	29.75	755.7	55.2	12.9	60	ssw.	.....	.....	2	.....	10	.....	.....	0.224	5.7	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.94	760.4	81.1	27.3	47	sw.	13	6.0	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	29.96?	760.9?	73.8	23.2	.....	ne.	.....	.....	1	.....	10	.....	.....	0.43	11.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.99	761.8	81.7	27.6	60	w.	.....	.....	1	.....	2 k	.....	sw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.61	675.9	.....	.....	65	18.3	84	w.	.....	.....	2	.....	10 n	.....	calm	.....	.....	raining	Fred L. Kingsbury.
United States.																			
Albany, New York	29.93	760.2	30.01	762.2	43.6	6.4	71	n.	5	2.2	.....	0	fg.	.....	.....	0.31	7.9	clear	J. O. Barnes.
Alpena, Michigan	29.28	743.7	29.95	760.7	43	6.1	68	s.	9	4.0	.....	0	1 s	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.98	634.5	29.88	758.9	52	11.1	74	calm	0	0	.....	10 ck	0	w.	.....	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.00	685.8	29.92	760.0	38	3.3	72	e.	4	1.8	.....	.....	sk.	.....	.....	0	0	dense smoke	B. O. Lenoir.
Atlanta, Georgia	28.86	733.0	30.05	763.3	68.0	20.0	90	w.	7	3.1	.....	2 c	3 k	w.	w.	0.08	2.0	fair	Edward A. Beals.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	55	12.8	86	ne.	16	7.2	.....	.....	10 n	.....	ne.	0.46	11.7	light rain	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.01	762.2	73.0	22.8	82	sw.	2	0.9	.....	0	1 s	.....	.....	0.03	0.8	clear	Louis Dunne.
Baltimore, Maryland	29.93	760.2	29.98	761.5	56	13.3	80	n.	7	3.1	.....	.....	10 s	.....	ne.	0.01	0.3	cloudy	Geo. W. Fenger.
Barnegat City, New Jersey	29.88	758.9	29.90	759.4	55.0	12.8	86	ne.	23	10.3	.....	.....	10 s	.....	e.	0.18	4.6	cloudy	G. A. Hill.
Behring Id., Behring Sea	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. Cherrick.
Bennett, Fort, Dakota	28.22	716.8	29.84	757.9	39.0	3.9	65	se.	4	1.8	.....	4 k	5 s	nw.	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	30.00	762.0	43	6.1	68	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.06	712.7	29.94	760.5	29.5	— 1.4	84	se.	2	0.9	.....	5 c	0	w.	.....	0	0	fair	B. O. Lenoir.
Block Island, Rhode Island	29.88	758.9	29.91	759.7	50.5	10.3	90	ne.	23	10.3	.....	.....	10 ks	.....	ne.	0.41	10.4	cloudy	J. T. Eiker.
Boise City, Idaho	27.08	687.8	29.94	760.5	44	6.7	68	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.97	761.2	43.0	6.1	83	n.	11	4.9	.....	0	8 k;s	.....	n.	0.48	12.2	clear	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.96	761.0	77.0	25.0	90	s.	6	2.7	.....	5 c	0	s.	.....	0	0	fair	John McGlone.
Buffalo, New York	29.25	742.9	30.01	762.2	39.5	4.2	86	e.	3	1.3	.....	2 k	sk.	se.	.....	0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.91	708.9	29.96	761.0	22.9	— 5.1	73	e.	4	1.8	.....	5 c	0	nw.	.....	0	0	fair	A. Schneider.
Cairo, Illinois	29.55	750.6	29.95	760.7	67.1	19.5	93	n.	1	0.4	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	W. H. Ray.
Canby, Fort, Washington Ter	29.51	749.5	29.71	754.6	57.0	13.9	98	s.	10	4.5	.....	.....	10 n	.....	s.	0.74	18.8	light rain	O. D. Stewart.
Cape Henry, Virginia	29.86	758.4	29.88	758.9	68.0	20.0	90	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.90	759.4	29.93	760.2	55.0	12.8	86	n.	13	5.8	.....	.....	10 s	.....	ne.	0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.24	742.7	29.93	760.2	57	13.9	100	se.	40	17.9	.....	.....	10 n	.....	se.	0.20	5.1	light rain	J. J. McLean.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	80.0	26.7	85	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.90	759.4	29.96	761.0	75.0	23.9	85	sw.	8	3.6	.....	0	0	.....	.....	0.04	1.0	clear	J. H. Smith.
Charlotte, N. Carolina	29.09	738.9	29.95	760.7	62.5	16.9	93	sw.	1	0.4	.....	5 cs	fg.	w.	.....	0.52	13.2	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.03	762.7	67.0	19.4	93	sw.	3	1.3	.....	0	9ks;fg	.....	sw.	0.21	5.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.80	604.5	29.82	757.4	56.2	13.4	40	nw.	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.26	743.2	29.97	761.2	42.5	5.8	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.86	758.4	29.88	758.9	61	16.1	100	n.	23	10.3	.....	.....	10 s	.....	ne.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	30.00	762.0	57.0	13.9	77	ne.	3	1.3	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	L. Dunne.
Cleveland, Ohio	29.28	743.7	30.02	762.5	42.0	5.6	87	se.	4	1.8	.....	0	fg.	.....	.....	inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenan.
Columbus, Ohio	29.15	740.4	30.01	762.2	48	8.9	77	ne.	2	0.9	.....	0	4 s	.....	.....	0.22	5.6	fair	D. Cuthbertson.
Concho, Fort, Texas	27.96	710.2	29.91	759.7	71.0	21.7	90	s.	16	7.2	.....	.....	10 k	.....	s.	0	0	cloudy	O. E. King.
Custer, Fort, M. T	26.68	677.7	29.92	760.0	42	5.6	67	ne.	4	1.8	.....	10 ck	0	.....	.....	0	0	cloudy	T. Gibson.
Davenport, Iowa	29.31	744.5	29.97	761.2	40	4.4	73	n.	1	0.4	.....	0	hz.	.....	.....	0	0	dense haze	R. R. Martin.
Davis, Fort, Texas	25.18	639.6	30.03	762.7	62	16.7	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.11	714.0	29.90	759.4	49.0	9.4	80	ne.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	D. Moore.
Deadwood, Dakota	25.19	639.8	29.87	758.7	42	5.6	86	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	F. Des Willson.
Delaware Breakwater, Del.	29.90	759.4	29.92	760.0	57.5	14.2	100	n.	20	8.9	.....	.....	10 s	.....	n.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.48	621.8	29.74	755.4	50.5	10.3	36	s.	2	0.9	.....	.....	8 s	.....	.....	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.98	761.5	37	2.8	82	n.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.29	744.0	30.00	762.0	45.0	7.2	76	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.14	689.3	29.77	756.1	60	15.6	87	se.	8	3.6	.....	.....	fg	.....	.....	0	0	dense fog	J. H. Bryce.
Dubuque, Iowa	29.29	744.0	30.01	762.2	33.8	1.0	86	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.17	740.9	29.93	760.2	32	0.0	68	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	N. B. Conger.
Eastport, Maine	29.82	757.4	29.89	759.2	40.0	4.4	73	n.	10	4.5	.....	4 ck	3 s	nw.	nw.	0.24	6.1	fair	D. C. Murphy.
Elliott, Fort, Texas	27.14	689.3	29.93	760.2	63	17.2	93	s.	4	1.8	.....	0	0	.....	.....	0.12	3.0	clear	J. C. Rickli.
El Paso, Texas	26.20	665.5	29.94	760.5	68.0	20.0	57	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.29	744.0	30.02	762.5	42	5.6	82	se.	1	0.4	.....	0	2 k	.....	nw.	0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.26	743.2	29.93	760 2	32.2	0.1	86	w.	0	2.7	.....	0	0	.....	.....	0.03	0.8	clear	George Heatcote.
Galveston, Texas	29.95	760.7	29.99	761.7	79	26.1	82	s.	7	3.1	.....	2 cs	6 ks	.....	sw.	0	0	cloudy	E. O'C. Machnerney.
Grand Haven, Michigan	29.27	743.4	29.94	760.5	43.0	6.1	88	se.	5	2.2	.....	1 ck	6 k	.....	s.	0	0	fair	Wm. H. Fallon.
Grant, Fort Arizona	25.19	639.8	29.89	759.2	62.7	17.1	45	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.

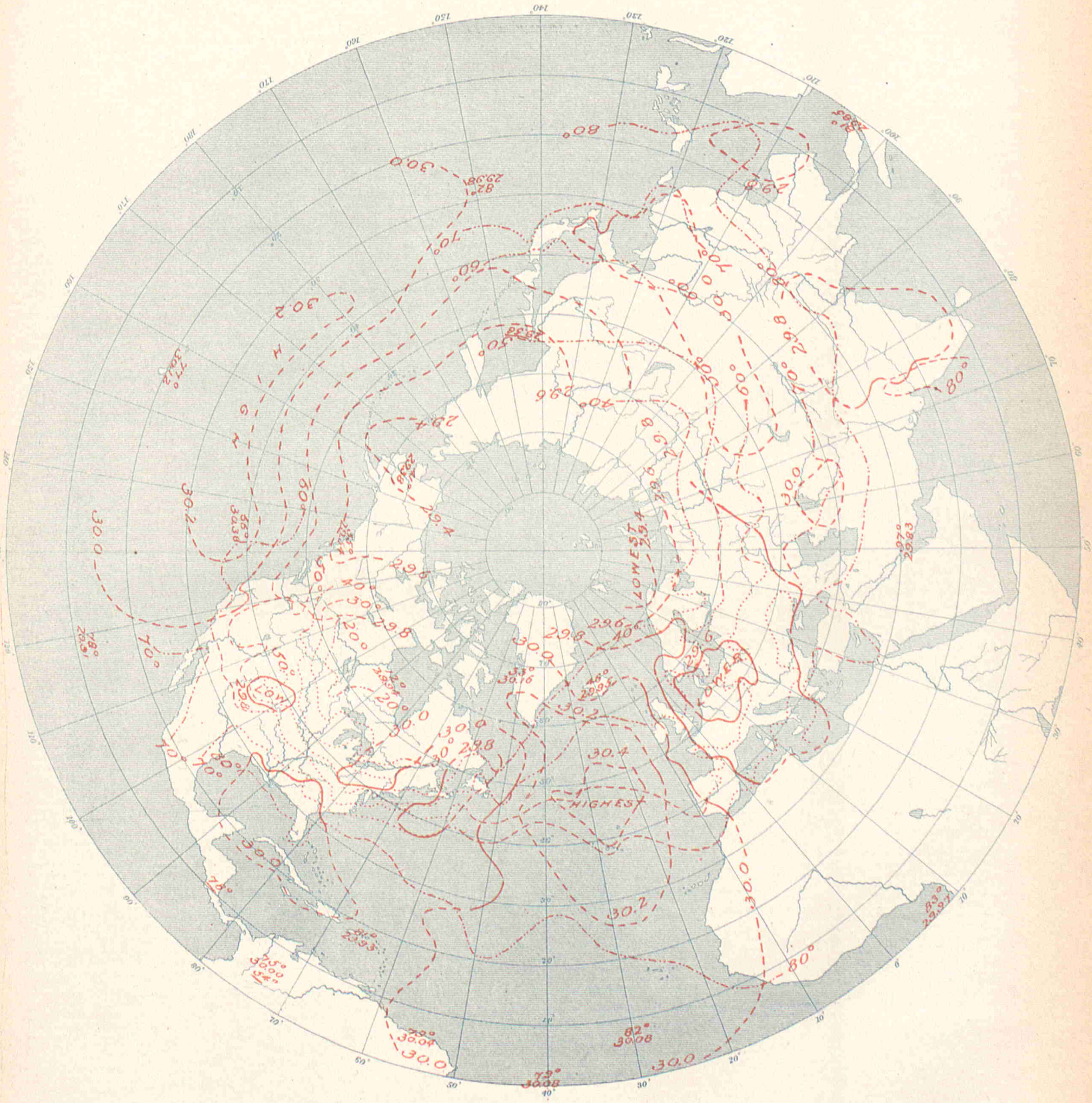
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.89	759.2	29.90	759.4	73.0	22.8	84	w.	9	4.0		5 4 c	0	sw.		0	0	clear	R. M. Crawfido
Helena, Montana	25.58	649.7	29.88	758.9	49	9.4	66	ne.	4	1.8			10 ks		ne.	0	0	cloudy	T. H. Jones.
Huron, Dakota	28.47	723.1	29.90	759.4	39.3	4.1	68	se.	9	4.0			10 s		e.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.97	761.2	51.0	10.6	80	calm	0	0		1 ck	fg.	w.		inap.	inap.	light fog	C. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	78.0	25.6	90	s.	8	3.6		0	2ks;fg		s.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.06	763.5	76.5	24.7	88	s.	4	1.8		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.30	744.2	29.98	761.5	42.0	5.6	65	ne.	6	2.7		hz.	0			0	0	dense haze	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	82	27.8	80	e.	9	4.0		0	1 k		e.	0.04	1.0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.87	758.7	29.89	759.2	69.2	20.7	86	nw.	11	4.9			hz.			0	0	dense haze	Wesley Blake.
Knoxville, Tennessee	28.97	735.8	30.01	762.2	67.6	19.8	91	sw.	7	3.1		0	7 s		sw.	0.02	0.5	fair	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	30.00	762.0	35	1.7	79	s.	4	1.8			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	28.96	735.6	29.86	758.4	53	11.7	66	e.	0	4 0			10 s			0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.02	737.1	29.87	758.7	42.0	5.6	82	calm	0	0			10 s			0.11	2.8	cloudy	O. E. Butler.
Little Rock, Arkansas	29.62	752.3	29.94	760.5	68.0	20.0	93	calm	0	0			10 s		sw.	2.89	73.4	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.98	761.5	58	14.4	93	calm	0	0			fg.			0	0	dense fog	T. S. Collins.
Louisville, Kentucky	29.39	746.5	29.96	761.0	58.5	14.7	87	n.	6	2.7			10 s			0.01	0.3	cloudy	L. M Dey.
Lynchburg, Virginia	29.21	741.9	29.90	759.4	67	19.4	84	sw.	1	0.4		0	fg.			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.23	742.4	29.90	759.4	43.0	6.1	74	sw.	6	2.7		0	8 ks		sw.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.91	759.7	29.92	760.0	71.0	21.7	90	nw.	10	4.5		7 cs	0	nw.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.44	646.2	29.98	761 5	41	5.0	67	se.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.17	740.9	29.91	759.7	33.0	0.6	85	w.	6	2.7		0	2 k		w.	0.13	3.3	clear	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.94	760.5	67	19.4	100	e.	4	1.8			10 s			0.08	2.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.98	761.5	37	2.8	82	nw.	5	2.2		2 cs	0	nw.		0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.01	762.2	30.05	763.3	74	23.3	97	w.	3	1.3		0	1 s		w.	0	0	clear	H. U. Jones.
Montgomery, Alabama	29.80	756.9	30.03	762.7	72	22.2	90	sw.	2	0.9			10 s		sw.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28.87	733.3	29.89	759.2	19	— 7.2	84	s.	7	3.1		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	23.58	598.9	29.92	760.0	15.0	— 9.4	100	nw.	15	6.7		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.39	746.5	29.97	761.2	70.0	21.1	90	sw.	5	2.2			10 s		sw.	0	0	threatening	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.94	760.5	45	7.2	76	n.	8	3.6			10 s			0.28	7.1	cloudy	J. H. Sherman.
New London, Connecticut	29.92	760.0	29.97	761.2	48	8.9	93	n.	4	1.8			10 s		n.	0.90	22.9	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	75.0	23.9	88	sw.	1	0.4		0	2 ks		sw.	0	0	clear	M. Herman.
New York, New York	29.78	756 4	29.96	761.0	51.0	10.6	72	n.	7	3.1			10 s		n.	1.12	28.4	cloudy	H. J. Penrod.
Norfolk, Virginia	29.85	758.2	29.88	758.9	67.7	19.8	89	nw.	3	1.3		hz.	0			0	0	dense haze	Wm. Davis.
North Platte, Nebraska	26.80	680.7	29.76	755.9	45.1	7.3	93	e.	8	3.6			10 n			0.04	1.0	light rain	E. F. Brady.
Olympia, Washington T'y	29.66	753.4	29.70	754.4	57.0	13.9	93	s.	3	1.3			10 n			0.38	9.7	light rain	J. Dascomb.
Omaha, Nebraska	28.73	729.7	29.93	760.2	43.0	6.1	82	se.	7	3.1			10 s		se.	0	0	cloudy	A. Pollak
Oswego, New York	29.67	753 6	30.00	762.0	40.0	4.4	73	s.	4	1.8		0	8 k		nw.	0	0	cloudy	J. G. Linsley
Palestine, Texas	29.44	747.8	30.00	762.0	73.0	22.8	89	s.	11	4.9		4c;cs	0	w;sw		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.06	763.5	74.4	23.6	94	w.	4	1.8		0	2 k		w.	0	0	clear	M. McGauran.
Philadelphia, Pa	29.86	758.4	29.96	761.0	50.5	10.3	93	ne.	9	4.0			10 s		ne.	0.38	9.7	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.72	450.1	30.00	762.0	25	— 3.9	80	w.	40	17.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.20	741.7	30.02	762.5	45.0	7.2	83	ne.	5	2.2		0	5 s		ne.	0.09	2.3	fair	G. O. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.29	744.0	29.98	761.5	38.0	3.3	71	calm	0	c		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.91	759.7	29.96	761.0	42.0	5.6	74	n.	6	2.7		0	0			0.02	0.5	clear	W. W. Eichelberger.
Portland, Oregon	29.68	753.9	29.75	755.6	58.0	14.4	93	s.	5	2.2			10 n		s.	0.98	24.9	light rain	M. L. Hearne.
Portsmouth, N. C																			F. P. Chaffee.
Prescott, Arizona	24.74	628.4	29.90	759.4	58.5	14.7	52	sw.	8	3.6		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.90	759.4	29.93	760.2	47	8.3	68	ne.	12	5.4		8 cs	2 k		ne.	0.39	9.9	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.65	753.1	30.01	762.2	59	15.0	87	s.	4	1.8		0	5 ks		s.	0	0	fair	J. R. Williams.
Rio Grande City, Texas	29.74	755.4	29.98	761.5	76.2	24.6	84	se.	4	1.8		0	6 s		se.	0	0	fair	Fred. Belford.
Roseburg, Oregon	29.29	744.0	29.85	758.2	57	13.9	93	s.	1	0.4			10 n		s.	0.40	10.2	light rain	J. J. Naury.
Sacramento, California	29.96	761.0	30.04	763.0	58.0	14.4	90	se.	3	1.3		0	3 s			0.14	3.6	clear	J. A. Barwick
St. Louis, Missouri	29.31	744.5	29.93	760.2	57.5	14.2	77	ne.	7	3.1			10s;sk		ne.	0.01	0.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.35	745.5	29.38	746.2	40.5	4.7	100	ne.	3	1.3			10s;fg			0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.10	739.1	29.96	761.0	28.5	— 1.9	94	sw.	1	0.4			fg.			0	0	dense fog	P. F Lyons.
St. Vincent, Minnesota	28.96	735.6	29.86	758.4	18	— 7.8	84	sw	1	0.4		0	fg.			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.58	649.7	29.98	761.5	53	11.7	61	n.	5	2.2			10 ks		sw.	0.04	1.0	cloudy	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.90	759.4	29.97	761.2	63.0	17.2	90	e.	4	1.8		0	3 k		e.	0	0	clear	F. R. Day.
Sanford, Florida	30.01	762 2	30.06	763.5	75	23.9	88	w	3	1.3		0	0			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.34	745.2	30.03	762.7	46	7.8	83	sw.	10	4.5		0	0			0.20	5.1	clear	B. F. Heugh.
Sandy Hook, New Jersey	29.91	759.7	29.94	760.5	52.0	11.1	86	ne.	24	10.7		10 k	0	ne.		0.87	22.1	cloudy	B. A. Blundon.
San Francisco, California	29.99	761.7	30.06	763.5	60.0	15.6	93	w.	1	0.4			fg.		w.	0.01	0.3	dense fog	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	76	24.4	75	sw.	8	3.6		5 ck	0	w.		inap.	inap.	fair	H. W. Ford.
Shaw, Fort, Montana	26.32	668.5	30.02	762.5	40	4.4	67	nw.	2	0.9		0	sk.			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.68	753 9	29.92	760.0	73.3	22.9	86	s.	4	1.8		7 c	2 k	sw.	s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattangly
Sitka, Alaska	29.47	748.5	29.54	750.3	55	12.8	85	w.	3	1.3			10 n		w.	0.28	7.1	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.41	747.0	29.89	759.2	67.3	19.6	93	se.	6	2.7		0	6 s		w.	1.92	48.8	fair	J. B. Campbell.
Smithville North Carolina	29.90	759.4	29.94	760.5	71.8	22.1	88	w.	3	1.3		3 ck	0	w.		0.02	0.5	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.81	706.4	29.89	759.2	52	11.1	86	sw.	1	0.4			sk.			0	0	dense smoke	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.97	761.2	46	7.8	80	ne.	6	2.7			10 s		nw.	0.02	0.5	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.90	683.2	29.93	760.2	65.0	18.3	90	s.	4	1.8		0	6 s			1.75	44.4	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	29.60	751.8			55.8	13.2	94	w.	12	5.4			10 s		sw.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona					57	13.9	33	s.			1	0	0			0	0	clear	R. O. Lord.
Toledo, Ohio	29.29	744.0	29.99	761.7	44	6.7	86	n.	1	0.4			fg.			0	0	dense fog	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaska, Alaska	29.38	746.2	29.40	746.7	43	6.1	93	sw.	3	1.3			10 s			0.02	0.5	cloudy	Samuel Applegate.
Verde, Fort, Arizona					55	12.8	47	nw.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.75	755.6	30.01	762.2	74.5	23.6	88	s.	4	1.8		0	hz.			0	0	clear	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C	29.86	758.4	29.98	761.5	54.7	12.6	82	n.	6	2.7			10 s		n.	0.01	0.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.75	654.0	29.68	753.9	44.5	6.9	89	nw.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	29.89	759.2	29.95	760.7	70.0	21.1	90	w.	1	0.4		2 k;hz	0			inap.	inap.	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.60	726.4	29.93	760.2	34.6	1.4	82	e.	4	1.8		7 c	0	e.		0	0	fair	E. H. Thompson.
Yuma, Arizona	29.66	753.4	29.81	757.2	67.9	19.9	40	nw.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			3	1 cs	4 ks		n.	0.30	7.6	fair	W. H. Jackson.
Bogota, U. S. C	22.07	560.6			53.6	12.0	69	calm	0	0			10s;ks		n.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I			29.98	761.5	78.6	25.9	85	calm	0	0		9 cs	1 s	ene.	e.	0.30	7.6	cloudy	Robert Johnstone.
Paramaribo, S. A	30.04	763 0	30.04	763.0	79	26.1	78	se.			2	5 ck	4 s		e.	0.060	1.5	fair	Dr. O. J. Hering.
Puerto Berrio, U. S. C	29.44	747.8	30.00	762.0	75	23.9	89	s.			1		10 ks		s.	0.20	5.1	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A					78	25.6	90	ne.			1					0.56	14.2	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory H. B. A	29.87	758.7	29.94	760.5	11.5	—11.4	100	n.	16	7.2			10 n		n.	0.01	0.3	snowing	Fortesque & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 40° 37', E. 22° 57'	29.83	757.7	83	28.3	64	sse.			3		1	sse.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.89	759.2	77	25.0	75	wnw.			3		4	wnw.						d. clouds.
H. M. S. Flamingo, Canada Bay, N.F	29.68	753.9	51	10.6	93	e.			1									squally.
H. M. S Himalaya, N. 36° 08', E 14° 19'	29.69	754.1	79	26.1	78	sse.			3		0					2	ese.	blue sky.
H. M. S. Iris, Port Said, Egypt	30.04	763.0	79	26.1	78	nne.			2		1							blue sky.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.97	761.2	83.3	28.5	78	sse.			2		7		sw.			3	sw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	29.93	760.2	42	5.6	83	nne.	10	4.5			2		ne.	0.50	12.7			fair.
U. S. S. Alliance, N. 43° 03', W. 66° 20'	29.89	759.2	41	5.0	91	n.			5		8		s.	light	light	sm'h		overcast.
U. S. S. Jamestown, N. 21° 19', W. 49° 26'	30.10	764.5	80	26.7	87	e.			3		8		e.			sm'h	e.	fair.
U. S. S. Kearsarge, Cadiz, Spain	30.03	762.7	64	17.8	78	nnw.			4		0							clear.
U. S. S. Lancaster, Cadiz, Spain	30.04	763.0	66	18.9	89	nw.			4		2		nw			sm'h		fair
U. S. S. New Hampshire, Newport, R I			52	11.1	79	ene.			4		10		calm			sm'h	ene.	raining.
U. S. S. Portsmouth, Newport, R.I	29.92	760.0	50	10.0	100	ne.			4		10		ne.					cloudy.
U. S. S. Powhatan, Sydney, C.B	29.70	754.4	59	15.0	100	w.			1		10							overcast.
U. S. S. Quinnebaug, Leghorn, Italy	29.73	755.1	69	20.6	65	sw.			4-5		5?		s.					cloudy?
U. S. S. Pinta, Portsmouth. N. H	29.99	761.7	39	3.9	82	nnw.			1		2		calm					clear.
U. S. S. Saratoga, Faulkners Island, Conn	29.91	759.7	49	9.4	?	ne.			3-4		8		ne.	h'vy	hv'y	sm'h	ne.	cloudy
U. S. S. Swatara, Halifax, N.S	29.79	756.7	50	10.0	86	n.			3		10		calm	hv'y	hv'y	sm'h		threatening.
U. S. S. Vandalia, Boston, Mass†	29.95	760.7	48	8.9	78	ne.			2		5							fair.
S. S. British Princess, N. 51° 19' W. 14° 48'			52	11.1		n.			6		3		n.	2 h'r	2 h'r	cross	n.	clear.
S. S. Lord Clive, N. 49° 49', W. 29° 09'						ese.			5		10		se.	o	o	mod.	ssw.	cloudy.
S. S. Lord Gough, N. 41° 20', W. 65° 36'	29.69	754.1	56	13.3		nnw.			6		10		nnw.	6 h'r	6 h'r	mod	nw.	overcast.
S. S. Ohio, Philadelphia, Pa†	29.97	761.2	52	11.1	100	nne.			2		10		ne.	12 h'r	12 h'r			cloudy.
S. S. Nova Scotian, N. 51° 34', W. 21° 19'	30.40	772.1	55	12.8		nw.			3		10		ne.			mod.	nne.	cloudy.
S. S. Prussian, N. 53° 14', W. 30° 37'	30.38	771.6	58	14.4		wsw.			3		10		sw.	o	o	sm'h	sw.	cloudy.
S. S. Scandinavian, N. 42° 22', W. 69° 09'	29.88	758.9	49	9.4		n.			6		10		nne.	7 h'r	7 h'r	mod.	n.	overcast.
S. S. Jason, N 47° 49', W. 42° 03'			59.0	15.0		s.			5		9 n					5	s.	foggy.
S. S. Alvo, N. 17° 30', W. 79° 00' *	29.95	760.7	81	27.2		ne.			4		4		ne.	o	o	long	ene.	fine.
S. S. Andes, Ponce, Porto Rico, W.I						ese.			1									fine.
S. S. Avilla. Kingston, Jamaica, W. I*†	30.02	762.5	81	27.2					1		0			o	o	sm'h		
S. S. Assyria, N. 40° 17' W. 59° 17'	29.83	757.7	74	23.3	100	sse.			5		4?		sw.	o	o	3	sse.	cloudy ?
S. S. Dorlan, Denia, Spain	29.82	757.4	64	17.8		var.					4			o	o	sm'h		fine.
S. S. Furnessia N. 48° 42', W. 35° 43'†	30.38	771.6	64	17.8	89	nw.			5		10?		nw.	5 h'r	5 h'r	mod.	n.	fair?
S. S. Llandaff City, Swansea, Wales			54	12.2		nne.			5		7		n.	o	o			cloudy.
S. S. Cephalonia, N. 42° 26', W. 58° 10'	29.81	757.2	68	20.0	95	sse.			3		9		wsw.	4 h'r	4 h'r	sli't	ene.	threatening.
S. S. Bothnia, N. 51° 14', W. 15° 18'			58	14.4	?	nne.			6		8		nne.	3 h'r	3 h'r	long	nne.	squally.
S. S. Gallia, N. 40° 48', W. 68° 27'	29.80	756.9	65	18.3	94	sse.			6		10			shr's	shr's	sm'h		hazy.
S. S. France, N. 44° 26', W. 42° 02' *†	30.26	768.6	69.8	21.		s.			5		9			o	o	sm'h	se.	cloudy.
S. S. Olinde Rodrigues, N. 35° 30', W. 25° 50'*†	30.30	769.6	76	24.4		ne.			3		3		ne	o	o	mod.	ne.	clear.
S. S. Arizona, N. 50° 50', W. 18° 02'	30.41	772.4	56	13.3		n.			5		10		nw.	o	o	mod.	nne.	squally.
S. S. Wisconsin. N 42° 29', W. 62° 18' *	29.66	753.4	61	16.1		wsw.			6		7		wsw.	8 h'r	8 h'r	sli't	sw.	squally.
S. S. Wyoming, N. 49° 33', W. 34° 14'	30.39	771.9	56	13.3		nne.			4		3		nne.	o	o	mod.	ne.	foggy
S. S. Bohemia, Hamburg, Germany						w.			3		0?		w.	4 h'r	4 h'r			clear ?
S. S. Frisia, N. 44° 41' W. 50° 10'	30.02	762.5				se.			4		5		se.	o	o	sm'h	se.	hazy.
S. S. Gellert, Hamburg, Germany	29.50	749.3	63	17.2	72	se.			2		5?		sse.	o	o			cloudy?
S. S. Silesia, N. 48° 15', W. 36° 55'	30.40	772.1	61	16.1		n.			2		10?		nw.	8 h'r	8 h'r	sm'h	nw.	fair?
S. S. Westphalia, N. 52° 45', E 4° 06'			56	13.3	87	n.			6		9		n.	rain	rain	mod.	n.	squally.
S. S. Rhaetia, N. 50° 26' W. 13° 09'			56	13.3	94	n.			7		7		n.	o	o	r'gh	n.	stormy.
S. S. Hevelius. Antwerp, Belgium†	29.51	749.5	58	14.4		nnw.			4				n.	3 h'r	3 h'r			cloudy.
S. S. Rio Grande. N. 24° 23', W. 81° 54'†	30.09	764.3	82	27.8		ene.			2		2		e.	o	o			clear.
S. S. Chalmette, Algiers, La	30.04	763.0	73	22.8		sw.			3		2		sw.	o	o			clear.
S. S. New York. N. 24° 55' W. 80° 30' *†	30.20	767.1	82	27.8		e.			4		3		se.	o	o	sm'h		clear.
S. S. Lone Star, N. 28° 36', W. 88° 35' *†	30.04	763.0	83	28.3		se.			1		1		calm	o	o	sm'h		clear.
S. S. Alleghany. Boston, Mass†	30.03	762.7	50	10.0		ne.			3		8		e.	light	light			cloudy.
S. S. Archimede, N. 34° 11'. W. 26° 11' †	30.36	771.1	80	26.7		e.			2		6		ene.	2 h'r	2 h'r	mod.	ene.	cloudy.
S. S. City of Merida, N. 21° 20', W. 89° 30' *†	30.04	763.0	82	27.8		e.			1		5		e.	o	o	light	ne.	fine.
S. S. City of Washington, N. 30° 18', W 79° 50'*†	30.10	764.5	84	28 9		wsw.			3		2		wsw.	o	o	sm'h		fine.
S. S. Cienfuegos, N. 31° 20', W. 75° 13' *	29.97	761.2	82	27.8		sw.			3		8		w.	2 h'r	2 h'r	g'ntle	sw.	cloudy.
S. S. Canada, N. 44° 58', W. 44° 57'			62	16.7		se.			4		2		s.	o	o	mod.	var.	clear.
S. S. Denmark, N. 41° 40' W. 54° 42 †	29.99	761.7	67	19.4		ese.			3		4		calm	o	o	sm'h		clear.
S. S. Egypt, N. 51° 11', W. 12° 21'	30.18	766.6	52	11.1		nne.			5		5		nne.	o	o	h'vy	nne.	fair.
S. S. Grecian, Quebec, Canada	30.03	762.7	38	3.3	100	calm			0		4			½ h'r	½ h'r			fair
S. S. Erin, London, Eng			54	12.2		wnw.			6		7		nw.	6 h'r	6 h'r			fair.
S. S. The Queen, N. 41° 00', W. 63° 54'	29.67	753.6	61	16.1		e.			1		0			1 h'r	1 h'r	sm'h		hazy.
S. S. America, N 49° 50', W. 23° —'*	30.44	773.2	58.0	14.4	82	sw.			2		10					long	n.	covered.
S. S. Elbe, N. 48° 34', W. 35° 12'	30.41	772.4	58.1	14.5	100	nne.			3-4		10		nne.	o	o	mod.	ne.	misty.
S. S. Habsburg, N. 50° 04'. W. 20° 56'						nnw.			3		8		nw.	o	o	sm'h	nnw.	cloudy.
S. S. Orinoco, New York, N.Y†	30.00	762.0	56	13.3		nne.			5		9		ne.	2 h'r	2 h'r			cloudy.
S. S. Main, N. 42° 07', W. 62° 10'	29.72	754.9	64.4	18.0		s.			5		7		nw.	3 h'r	3 h'r	mod.	s.	fair.
S. S. Oder, N. 49° 15', W. 10° 36'	30.09	764.3	54.5	12.5		nnw.			6		5		n.	o	o	long	nr.w.	fair.
S. S. Salier, N. 47° 35', W. 37° 19'			57.2	14.0		nw.			6		4		nw.			mod.	nw.	fair.
S. S. Strasburg, N. 43° 26', W. 58° 12'	29.82	757.4	65.5	18.6	86	wsw.			5		10		sse.	3 h'r	3 h'r	3	se.	cloudy
S. S. City of Augusta, N. 33° 25', W. 78° 02'						wsw.			5		6		sw.			sm'h		fine.
S. S. Muriel, St. Thomas, W.I	29.92	760.0	80	26.7		se.			3		10			4 h'r	4 h'r	sm'h		raining.
S. S. Belgenland, N. 44° 24', W. 55° 00' †	29.92	760.0	58	14.4	94	s.			5		10			o	o	mod.	sw.	dense fog.
S. S. Rhynland. N. 41° 54', W. 64° 26'	29.70	754.4	54	12.2		n.			6		7		nnw.	6 h'r	6 h'r	mod.	nw.	rainy.
S. S. Pennland, Jersey City, N.J			60	15.6	88	sw.			4		10		s.	6 h'r	6 h'r			dull.
S. S. Switzerland, N. 49° 37', W. 9° 12'*†	29.99	761.7				n.			5		5		n.	o	o	r'gh	n.	fair.
S. S. Vaderland, Antwerp, Belgium			53	11.7		nnw.			3		8		ne.	3 h'r	3 h'r			squally.
S. S. Waesland, Antwerp, Belgium	29.53	750.0	58	14.4		w.			4		10		w.	7 h'r	7 h'r			rainy.
S. S. P. Caland, N. 46° 19', W. 46° 30'	30.13	765.3	56.8	13.8	91	ese.			5		6		se.			2	se.	fair.
S. S. Schiedam, N. 49° 47'. W. 5° 46'	29.89	759.2	59.0	15 0	69	nnw.			5		6		nw.	o	o	rg'h	nnw.	fair
S. S. Zaandam, New York, N. Y	30.00	762.0	54.7	12.6	86	n.			4		3		nw.	13 h'r	13 h'r			clear.
S. S. Caracas, N. 39° 36', W. 73° 33' *†	29.90	759.4	62	16.7	88	nne.			7		10		nne.	o	o	sharp	nne.	threatening.
S. S. W. A. Scholten, N. 49° 17', W. 40° 56'	30.37	771.4	59.0	15.0	89	ene.			2		9		wsw.	o	o	1	ese.	
S. S. Valencia, Curacon, W.I*†	29.96	761.0	85	29.4	83	e.			2		0		ene.	o	o			fair.
S. S. State of Indiana, Glasgow, Scotland						nw.			5		4		nw.	o	o			
S. S. State of Nebraska, N. 42° 49', W. 60° 48'*†	29.70	754.4	59	15.0		s.			2-4		10		w.	4 h'r	4 h'r	sm'h		hazy.
S. S. Thingvalla, N. 46° 44', W. 52° 53'			55.4	13.0		se.			3		10			o	o	cross	se.	foggy.
S. S. Romano, N. 42° 25', W. 68° 20'			49	9.4		n.			4		3		n.	6 h'r	6 h'r	mod.	n.	
S. S. Salerno, Hull, Eng *†	29.83	757.7	48	8.9		n.			3		9		nw.	0.3	8.			cloudy.
S. S. Oregon, N. 50° 3:', W 59° 02'	29.74	755.4	44	6.7		n.			4		10					mod.		hazy.
S. S. Quebec, N. 52° 37', W. 53° 07'			40	4.4		se.			2		10		se.	6 h'r	6 h'r		s.	rainy.
S. S. Texas, Quebec, Canada *†	30.00	762.0	44	6.7	84	calm			0		0			o	o	sm'h		clear.
S. S. Olbers, N. 1° 00' W. 40° 47'	30.08	764.0	79	26.1	95	e.			5		6		e.	o	o	light	ese.	fair.
S. S. Daniel Steinmann, N. 50° 11', W. 16° 16'†	30.30	769.6	57	13.9		nnw.			6		9		n.	1 h'r	1 h'r	h'vy	nw.	cloudy.
S. S. Celtic, New York, N. Y †	29.95	760.7	54	12.2		ne.			2		8		n.	6 h'r	6 h'r			cloudy.
S. S. Germanic, N. 50° 17', W. 31° 28'*†	30.38	771.6	59	15.0		ene.			3		10			o	o	long	se.	misty.
S. S. Republic, N. 44° 13', W. 47° 22' *†	30.05	763.3	64	17.8		ene.			5		7		e.	o	o	light	ene.	misty.
S. S. Assyrian Monarch, N. 48° 02' W. 18° 33'	30.48	774.2				nnw.			6		6		nnw.	2 h'r	2 h'r	mod.	nw.	fair.
Bk. Arda, N. 38° 32', W. 19° 19'						ne.			3		4		ne.	o	o	mod	ne.	clear.
Bk. Alpheus Marshall, N. 14° 10', W. 25° 04'			82	27.8	96	e.			3		3		ese.	o	o	sm'h		hazy.
Bk. Arladne, N. 45° 24', W. 49° 23'	30.09	764.3	52	11.1	100	e.			4		fg.			o	o	mod.	s.	foggy.
Bg. Abbie Clifford, N. 40° 12', W. 68° 19'†	29.86	758.4	54	12.2		n.			5		10		n.	1½ hr	1½hr	small	n.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, N. 43° 00′, W. 70° 30′						ne.			5		5		ne.	0	0	chop	ne.	threatening.
Schr. Abbie H. Gheen, N. 41° 13′, W. 71° 25′†	29.94	760.5	57	13.9		nne.			0									stormy.
S. S. Antonio Lopez, Santander, Spain*	29.92	760.0	53.5	11.9	93	w.			5		10			18 h'r	18 h'r	long	nw.	squally.
Schr. Adda Doane, N. 30° 54′, W. 67° 11′*†	30.00	762.0				nnw.			1		8		nw.	0	0	mod.	nw.	cloudy.
Bk. Adelaide, N. 6° 53′, W. 30° 23′*†	30.08	764.0	82	27.8		n.			1		5		ne.	6 h'r	6 h'r	long	s	fair.
Bg. Belle of the Bay, Galveston, Texas						ssw.			4		5		sw.	0	0	short	s.	fair.
Bk. Ceylon, N. 24° 32′, W. 39° 12′†	30.12	765.0	83	28.3	87	ese.			3		2		ese.	0	0	mod.	ene.	clear.
Schr. C. R. Flint, N. 16° 18′, W. 55° 55′†	30.02	762.5	85	29.4		ese.			3		2		se.	c	0	sm'h	se.	fine.
Bk. Don Justo, N. 44° 27′, W. 60° 07′			60	15.6		ssw.			1				sw.	6 h'r	6 h'r	mod.	s.	dense fog.
S. S. D. J. Foley, N. 36° 31′, W. 74° 25′*†	29.93	760.2	72	22.2	80	wsw.			2		1		nw.	0	0	sm'h		clear.
Bkt. David A. Preston, N. 41° 25′, W. 72° 24′†	29.97	761.2				ne.			5		10		ne.	4 h'r	4 h'r	sm'h		
Bk. Diamant, N. 43° 02′, W. 44° 28′	30.18	766.5	71.8	22.1	100	se.			6		6		sse.	8½h'r	8½h'r	5	se.	fair.
S. Dynomene, N. 30° 24′, W. 19° 42′	30.20	767.1	73	22.8	81	ne.			5		6			light	light	mod.	nne.	showery
S. David Stewart, N. 32° 18′, W. 70° 12′†	29.92	760.0	86	30.0		var.			1		5		ssw.			mod.	nw.	fair.
S. E. J. Spicer, N. 50° 14′, W. 2° 23′			52	11.1	93	n.			6		10		n.	rain	rain	sm'h		cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.01	762.2	83	28.3		s.			2		2		s.	0	0			fair.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	29.90	759.4	49	9.4	100	ne.			2		10		ne.	0.48	12.2			cloudy.
S. Gatherer, N. 36° —′, W. 36° —′*	30.22	767.6	76	24.4	82	se.			6		4		e.	¼ h'r	¼h'r	chop	e.	fair.
Bg. George, N. 21° 00′, W. 68° 05′*†	30.02	762.5	80	26.7		ene.			3		8			0	0	mod	ne	clearing.
Bk. Galeon, N. 23° 46′, W. 31° 11′†	30.15	765.8	78	25.6		e.			4		2		e.	0	0	sm'h	ne.	blue sky.
Bk. Grey Eagle, N. 6° 05′, W. 28° 40						wsw.			1		6		sw.	1 h'r	1 h'r	short	se.	fair.
Bk. Hattie G. McFarland, New York, N. Y.†	29.97	761.2	62	16.7		nne.			5		4		ne.	6 h'r	6 h'r			clearing.
S. Hedwig, N. 21° 51′, W. 33° 00′	30.17	766.3	82.0	27.8	83	se.			3		3		se.	0	0	3	ne.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	30.08	764.0				calm			0		0			0	0			clear.
Bk. Ibis, N. 31° 05′, W. 81° 15′*	30.01	762.2	79	26.1		w.			2		0			0	0	sm'h	sse.	clear.
Bk. Johanne, N. 44° 26′, W. 62° 04′			54	12.2		nnw.			3		8		nw.	6 h'r	6 h'r	mod.	n.	hazy
Schr. Jennie N. Huddell, Wilmington, N. C.†	29.99	761.7	77	25.0	91	wsw.			1		2		w.	1 h'r	1 h'r			clear.
Bk. John H. Pearson, N. 36° 45′, W. 2° 26′						wsw.			5				wsw.	0	0	rg'h		clear.
Schr. Jas. Slater, N. 20° 59′, W. 59° 00′†	29.97	761.2				calm			0		0			0	0	r'gh	var.	clear.
Bg. Josefa, N. 46° 15′, W. 50° 05′†	30.01	762.2				se.			4		9		se.	0	0	short	se.	light fog.
Bkt. Kryolith, N. 44° 35′, W. 59° 40′*†	29.70	754.4				s			2		10		w.	6 h'r	6 h'r	r'gh	var.	threatening
Bk. Lady Hincks, N. 23° 54′, W. 50° 40′*†	30.10	764.5												sh'rs	sh'rs			squally.
Bg. Lillian, N. 7° 58′. W. 58° 12′†	30.01	762.2	86	30.0		ene.			2		4		e.	0	0	mod.	ne.	fair.
Bg. L. & W. Armstrong, N. 31° 45′, W. 70° 31′*†.	29.92	760.0				wsw.			3		3		w.	0	0	sm'h	w.	fine.
S. S. Madrid, Taganrog, Russia †	29.76	755.9	66	18.9	89	sw.			2		4		sw.	1 h'r	1 h'r			fair.
Bk. Matilda C. Smith, N. 39° 28′, W. 58° 15′*†	29.90	759.4				sse.			4		4		s.	0	0	mod.	s.	fine.
Bk. Matthias, N. 38° 18′, W. 73° 35′*†	29.90	759.4	67	19.4		n.			5		8		nw.	0	0		nw.	clearing.
Bk. National Eagle, N. 41° 00′, E. 19° 03′						w.			6		10		sw.	4 h'r	4 h'r	r'gh	sw.	cloudy.
Bk. Orpheus, N. 40° 26′, W. 64° 16′			70	24.4		w.			2		5 k		n.	0	0	sm'h		fair.
S. S. Radnorshire, Folkestone, Eng.*†	29.65	753.1				nnw.			7		8		nnw.	0	0			fair.
Schr. Rollin Sanford, Milton, Fla.†	30.04	763.0				calm			0		2		wsw.	0	0			clear.
Bg. Rising Sun, N. 35° 50′, W. 65° 17′†	29.91	759.7	77	25.0		wnw.			4		1		wnw.	0	0	long	s.	clear.
Bk. Rosalie, N. 31° 43′, W. 19° 10′*†	30.22	767.6				ene.			4		3		e.	0	0	mod.	ene.	clear.
Bk. Saga, Elsinore, Denmark*†	29.47	748.5	55	12.8		nne.			3		8		nne.	4 h'r	4 h'r	sm'h		rain & fog.
S. Salisbury, N. 40° 06′, W. 53° 04′			72.3	22.4	81	ene.			1–2		4 k		ese.	0	0	mod.	e.	fair.
Bgt. Sunlight, N. 31° 56′, W. 72° 43′†	29.98	761.5				w.			4		8		wnw.	½h'r	½h'r	short	wnw.	cloudy.
Bk. Samuel B. Hale, N. 34° 39′, W. 51° 30′*†	29.85	758.2				sw.			3				sw.	hv'y	hv'y	short	e.	fair.
Bk. Sunbeam, N. 40° 22′, W. 56° 57′†	29.92	760.0	74	23.3	86	sse.			5		4		sse.	0	0	mod.	sse	fair.
Bk. Scud, N. 26° 15′, W. 57° 49′*†	30.01	762.2	83	28.3		nw.			3		3		n.	0	0	mod.	nne.	fine.
Bk. St. Lawrence, N. 18° 34′, W. 50° 49′*†	29.95	760.7				ese.			4				sse.			light	s.	fine.
Bk. Southern Belle, Marbella, Spain†	29.90	759.4				ne.			3		8			0	0	mod.	e.	cloudy.
S. S. Tower Hill, N. 44° 40′, W. 49° 35′*†	30.10	764.5				se.			3		10					mod.	s.	foggy.
Schr. Viola Reppard, N. 31° 45′, W. 78° 45′†	30.00	762.0	82	27.8		sw.			2		4		calm			sm'h		clear.
Schr. Walter L. Plummer, Tenerife, Canary Islands*†	30.15	765.8				ne.			2		5		ne.					fair.
S. S. Maasdam, N. 49° 37′, W. 9° 00′			56	13.3		n			4							5	n.	rainy.
Bk. Childwall, N. 7° 08′, W. 22° 20′			85	29.4		sw.			1		7			0	0	light	var.	cloudy
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.07	763.8	75.5	24.2	88	w.			1		5	sw.						d. clouds.
H. M. S. Boadicea, off Saldanha Bay, Cape Colony			62	16.7	77	sse.			2		3	s.				2	sw.	blue sky.
H. M. S. Opal, Ascension Island, Africa	30.07	763.8	79	26.1	78	ese.			2		4	ese.						d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	29.98	761.5	53.2	11.8	98	ese.			2		10							foggy.
H. M. S. Tyne, S. 0° 33′, W. 15° 33′	30.05	763.3	75	23.9	81	sse.			3		9					3	sse	overcast.
H. P. M. S. Benge, Mossamedes, Benguela	30.00	762.0	71.6	22.0	77	wnw.			2		10			0	0	1		overcast.
U. S. S. Brooklyn, S. 38° 30′, W. 50° 42′*	29.83	757.7	57	13.9	87	s.	23	10.3			10		s.	1.08	27.4	mod.	s.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	29.96	761.0	56	13.3	94	se.			2		8					sm'h		
S. S. Teniers, S. 22° 30′ W. 41° 30′	30.18	766.6	71.2	21.8	85	ene.			5	cs	3 ku		se.	0	0	con.	var.	d. clouds.
S. S. Sirius, S. 2° 47′, W. 31° 27′	30.04	763.0				se.			4		3		se.	0	0	mod.	se.	clear.
Bk. Aureola, Pernambuco, Brazil †	29.95	760.7	93	33.9		ese.			2		2		se.	0	0	h'vy	se.	clear.
Bk. E. L. Pettingill, S. 32° 12′. W. 43° 37′*†	30.25	768.3	65	18.3		n.			4		8		nnw.	light	light	long	ssw.	cloudy.
Bg. John Wesley, Natal, Brazil*†	29.96	761.0	82	27.8		ese.			5		2			0	0			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.08	764.0				s.			1		8		s.	2 h'r	2 h'r			fair.
S. S. Menedoza, S. 36° 47′, W. 50° 25′†	29.95	760.7				ssw.			2		5		ssw.	0	0	r'gh	ne.	
Bk. Mohican, S. 28° 05′, W. 26° 30′	30.01	762.2	67	19.4		sse.			4		0			3 h'r	3 h'r	short	ssw.	clear.
Bk. Pilgrim, S. 22° 37′, E. 0° 33′*†	30.35	770.9				e.			4		4		ese.	0	0	mod.	se.	clear.
Bgt. Willie, S. 23° 35′, W. 41° 45′ *†	30.14	765.8	75	23.9		ene.			5		2		ene.	0	0	long	sse.	clear.
Bk. Achille F, S. 29° 30′, W. 43° —′ †	30.15	765.8	67	19.4		nne.			4		5		ne.	0	0	mod	ne.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 37° 15′, E. 141° 25′	29.87	758.7	71	21.7	85	sw.			1		10	sw.				2	s.	overcast.
H. M. S. Champion, Singapore, Malay Peninsula	29.85	758.2	81	27.2	91	sw.			3		8							d. clouds.
H. M. S. Cleopatra, N. 30° 25′, E. 124° 13′	29.97	761.2	71	21.7		n			3		7					4	n.	d. clouds
H. M. S. Flying Fish, Che Foo, China	30.11	764.8	63	17.2	67	se.			1		1					1	e.	blue sky.
H. M. S. Magpie, N. 5° 16′, E. 115° 15′	29.86	758.4	80.5	20.9	87	sw.			2		10							overcast.
H. M. S. Zephyr, N. 35° 00′, E. 129° 49′	30.00	762.0	68	20.0		e.			3		3					2	e.	blue sky.
H. P. M. S. Tamega, Canton, China	29.92	760.0	82.4	28.0	74	n.			3		3			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.98	761.5	66.5	19.2	94	calm			0		10			0.81	20.6			light rain.
U. S. S. Essex, N. 36° 12′, E. 125° 32′	30.08	764.0	64	17.8	67	nw.			3		2					sm'h	nw.	clear.
U. S. S. Hartford, Punta Arenas, Costa Rica*	29.85	758.2	76	24.4	95	ne.			1		2		s;w.	light	light	sm'h	s;w.	clear.
U. S. S. Juniata, N. 14° 13′, E. 112° 54′	29.75	755.6	79	26.1	100	wnw.			7		10		nw.	h'vy	h'vy	mod.	nw	rainy.
U. S. S. Monocacy, Ross Island, Corea	30.06	763.5	62	16.7	56	n.			2		0							clear.
U. S. S. Pensacola, N. 27° 11′, E. 148° 41′*	29.98	761.5	82	27.8	79	ene.			4		2		ene.	0	0	mod.	ne.	clear.
U. S. S. Ranger, Mare Island, Cal	30.01	762.2	62	16.7	88	sw.			1		8			0	0			cloudy.
U. S. S. Richmond, Yokohama, Japan	29.93	760.2	69	20.6	95	n.			1		10			0.80	20.3			light rain.
S. S. Oceanic, N. 38° 57′, W. 136° 48′	30.38	771.6	66	18.9	84	sw.			4		7			0	0	4	nw.	cloudy.
S. S. City of Chester, San Francisco, Cal†	30.08	764.0	59	15.0	100	calm			0		fg.							foggy.
S. S. Columbia, N. 38° 30′, W. 123° 56′†	30.03	762.7	56	13.3	97	sse.			1		0					light	sw.	dense fog.
S. S Oregon, San Francisco, Cal.†	30.09	764.3	59	15.0	94	calm			0		10		nw.					cloudy.
S. S. Dakota, N. 40° 17′, W. 127° 40′ †	30.13	765.3	52	11.1	86	nw.			6		2		nw.	0	0	mod	nw.	clear.
S. S. Orizaba, N. 35° 40′, W. 121° 15′*†	30.04	763.0	61	16.1	94	var.			1					0	0	long	wsw.	light haze.
S. S. State of California, N. 40° 50′, W. 124° 30′†	29.95	760.7	57	13.9	100	se.			4		10		s.			large	wsw.	light rain.
S. S. Queen of the Pacific, Portland, Oregon†	29.77	759.1	57	13.9	100	se.			2		8			6 h'r	6 h'r			overcast.
S. S. Victoria, Portland, Oregon			58	14.4	88	se.			2		8		se.					rainy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of New York, Honolulu, Sandwich Ids†	30.12	765.0	77	25.0	82	s.			2		0			0	0			clear.
S. S. City of Pekin, Hong Kong, China†	29.93	760.2	80	26.7	78	e.			4		8		ne.	0	0			cloudy.
S. S. City of Tokio, N. 33° 14′, E. 135° 12′†	29.89	759.2	75	23.9	95	ne.			5		2		ne.	2 h'r	2 h'r	mod.	ne.	clear
S. S. City of Rio de Janeiro, N. 37° 48′, E. 177° 00′†	30.20	767.1	55	18.3	73	n.			4		5		n.	0	0	mod.	nw.	squally.
S. S. Granada, Panama, Panama†	29.90	759.4	76	24.4	91	w.			2		8		nw.	0	0			
S S. San Blas, N. 11° 22′, W. 86° 58′†	29.86	758.4	80	26.7		ene.			5		10		e.	1 h'r	1 h'r	mod.	ene.	gloomy.
S. E. B. Sutton, N. 12° 20′, W. 119° 50′*†	29.91	759 7	78	25.6	95	n.			3		10		ne.	5 h'r	5 h'r	mod.	var.	rainy.
S. S. Strathleven, N. 34° 24′, E. 134° 13′	29.97	761 2	70.0	21.1	91	nw.			2		8			5 h'r	5 h'r			d. clouds.
S. Storm King, N. 8° 36′, W. 117° 05′ *†	29.93	760.2				sw.			6		7		sw.	3 h'r	3 h'r	r'gh	var.	overcast.
U. S. S. Palos, Canton, China	29.92	760.0	80	26.7	58	n.			2		2		nne.					fair.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.94	760.5	78.3	25.7	91	calm			0		4					sm'h	o	d. clouds.
H. M. S. Mutine, Payta Bay, Peru	29.91	759.7	68	20.0		sse.			1		10							overcast.
U. S. S. Iroquois, Callao, Peru	30.04	763 0	61	16.1	94	n.			1		10					sm'h		cloudy.
U. S. S. Lackawanna, S. 28° 04′, W. 71° 51′*	29.96	761.0	58	14.4	88	s.			4		10		se			mod.	s.	overcast.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	59	15.0	88	nnw.			1		10		se.			mod	w.	misty.
U. S. S. Wachusetts, S. 19° 00′, W. 71° 35′	30.05	763.3	61	16.1	88	calm			0		10					sm'h		overcast.
S. S. Australia, Sydney, N. S. W.	30.05	763 3	50	10.0	86	nnw.					0			0	0			clear.
S. S. City of Sydney, Sydney, N. S. W*†	30.30	769.6	58	14.4	70	nne.			2		0							clear.
Bk. Godeffroy, S. 56° 21′, W. 80° 07′	29.68	753.9	40.1	4.5	95	w.			3		9			8 h'r	8 h'r	mod.	e.;w.	rainy.
S. Sovereign of the Seas, S. 18° 17′, W. 91° 02′ *†	30.20	767.1	65	18.3	89	sse.			2		10			0	0	h'vy	sw.	cloudy.
S. David Crocket, S. 56° 08′, W. 82° 56′ *	29.76	755.9	41	5.0	82	w.			3		8		w.	0	0	long	ene.	d. clouds
S. Armenia, S. 1° 30′, W. 123° 30′ *	29.90	759.4	76	24.4	91	ese.			3		2		calm	0	0	mod.	sse.	clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.66	763.5	66	18.9		se.			4							mod.	sse.	dense fog.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.98	761.5	81	27.2	83	s.			1		4	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.97	761.2	81	27.2	91	se.			3		2	ese.				2	sse.	blue sky.
H. M. S. Woodlark, Bushir, Persia	29.83	757.7	96.5	35.8	40	nw.			3		0							misty.
S. S. Benledi, S. 26° —′ E. 35° —′*	29.83	757.7	84	28.9	77	nnw.			4		0			0	0	mod.	nnw.	hazy.
Bk. Bore, S. 25° 30′, E. 48° 52′ *†	30.57	776.5	78	25.6		nnw.			4		7		var.	0	0	long	e.	fair.
S. Frank N. Thayer, S. 21° 00′, E. 65° 00′*†	30.23	767.8	70.5	21.4	87	e.			6		10		ese.	2 h'r	2 h'r	cross	se;s.	raining.
Bk. Great Surgeon, S. 39° 06′, E. 29° 40′ *†	30.54	775.7	54	12.2		ene.			2		4		ne.	½ h'r	½ h'r	cross	sw.se	fair.

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



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B.Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 2, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.5	75.2	24.0	67	e.			4		3			0	0	pretty fair	Roziere.
Algiers			29.87	758.7	60.1	15.6	81	sw.			4		10			0.110	2.8	covered	Thève.
La Calle			29.84	758.0	79.9	26.6	43	nnw.			1		2			0	0	fair	Fonfrède.
Tunis			29.90	759.4	78.1	25.6	38	sw.			2		1			0	0	very fair	Delord.
Saida			29.98	761.4															Pères.
Tebessa			29.96	761.0	77.0	25.0	61	sw.			3		3			0	0	pretty fair	St. Martin.
Geriville					62.6	17.0	34	n.			4		1			inap.	inap.	very fair	Forfert.
Laghouat			29.97	761.3	76.6	24.8	27	n.			1		1			0	0	very fair	Abraham.
Biskra			29.97	761.3	82.8	28.2	20	se.			2		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.00	762.0	61.8	16.6	45	n.	11	4.9			1			0	0	fine	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.98	761.5	30.07	763.8	59.2	15.1	61	nne.	6	2.7			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.5	29.86	758.4	55.4	13.0	69	se.			1		9			0.346	8.8	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.96	735.6	29.72	754.8	57.6	14.2	53	w.	13 0	5.8			4			0.028	0.7		Dr. Wierzbiski
Eperies	28.85	732.8	29.71	754.7	56.8	13.8	82	s.			2	9 cs				0.189	4.8		Julius Mikolik.
Gratz																			Andreas Rospim.
Hermannstadt	28.33	719.6	29.72	754.8	62.4	16.9	64	nnw.			2		5			0.634	16.1		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.49	723.7	29.82	757.5	54.0	12.2	66	wnw.			2		7 k			0	0	cloudy	The Staff.
Lemberg	28.72	729.5	29.69	754.0	59.5	15.3	71	nw.			4		8			0	0		Dr. T. Stanecki.
Pola	29.72	755.0	29.83	757.7	66.2	19.0	67	wsw.			3		7			0	0		I. R. Hydrographic Office.
Szathmar	29.25	742.9	29.70	754.4	60.4	15.8	85	w.			4		9			0.394	10.0		Joseph Midlinszky, S. J
Szegedin	29.47	748.4	29.74	755.4	58.1	14.5	99	sw.			1		10			0.217	5.5	thund'r st'm	Karl Stancel.
Trieste	29.75	755.5	29.85	758.1	63.7	17.6	67	n.			1		7			0.354	9.0		Royal Academy.
Vienna	29.11	739.5	29.82	757.4	60.4	15.8	50	w.			3		3			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.84	757 9	29.93	760.2	49.0	9.4	60	wnw.	10	4.5			5			0.015	0.4	blue sky	W. Boswell.
Armagh, Observatory	29.85	758.2	30.09	764.3	52.2	11.2	79	nw.	6	2.7			10					overcast	S. Call.
Bidston, Liverpool Obs'y			30.02	762.5	51.9	11.1	72	nw.	15	6.7			7					d. clouds	John Hartnup.
Bolton, Sharples	29.47	748.5	30.01	762.2	50.2	10.1	68	nnw.	12	5.4			4					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.56	751.3	29.97	761.2	50.1	10.1	60	nw.			3		5			0.08	2.0	d. clouds	McLandsborough & Preston.
Cardington	29.88	758.9	29.99	761.7	53.2	11.8	73	n.			2.0		3					d. clouds	John McLaren.
Chatham, School M. E.	29.80	756.9	29.98	761.5	51.6	10.9	64	n.			2		5			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.96	761.0	30.19	766.8	53.0	11.7	61	nw.			3		10					overcast	The Staff.
Fort Napier, Natal	27.60	702.6	29.88	758.9	89.0	31.7	20	e.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.73	755.1	29.96	761.0	83.0	28.3	83	s.			4		0?					raining?	J. W. Smith.
Galway, Queen's College	30.11	764.8	30.14	765.5	55	12.8	81	nw.			1		5			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	68.8	20.4	87	nw.			4		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.78	756.4	29.99	761.7	52.1	11.2	60	w.			3		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.83	757.7	30.00	762.0	53.9	12.2	56	nnw.			4		3					d. clouds	The Staff.
Guernsey	29.84	758.9	30.14	765.5	53.0	11.7	67	n.			1		5			blank	blank	d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.98	761.5	30.02	762.5	50.9	10.5	52	n.	15	6.7			6					d. clouds	The Staff.
Leicester, Museum	29.75	755.6	30.01	762.2	51.5	10.8	59	nw.			1		9					overcast	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.92	760.0	76.4	24.7	63	ne.			2					0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.07	763 8	83.0	28.3	71	s.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.59	751.6	30.13	765.3	46.2	7.9	92	nw.			1		10					drizzling	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.80	756.9	30.03	762.7	51.3	10.7	56	nw.			4		6					misty	The Staff.
Plymouth	30.06	763.5	30.13	765.3	52.7	11.5	80	nnw.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.70	754.4	29.80	756.9	49.8	9.9	87						6					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.71	754.6	29.78	756.4	87.0	30.6	34	calm			0		0					misty	W. H. Lyne.
Sheffield	29.69	754.1	29.98	761.5	53.1	11.7	71	ne.			2		4			0.03	0.8	d. clouds	W. F. Cooper.
Silloth Rectory	29.97	761.2	30.00	762.0	54.5	12.5	65	n.			1		0			0.110	2.8	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.01	762.2	50.1	10.1	53	nw.	11	4.9			6					d clouds	Rev. S. J. Perry.
Strathfield Turgiss					52.8	11.6	68	n.			1.0		1					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.14	765.5	30.22	767.6	57	13.9	75	nw.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	30.25	768.3	30.27	768.8	54.4	12.4	83	nnw.	14	6.3			10					drizzling	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.61	752.1	30.00	762.0	76.6	24.8	54	ne.	5.0	2.2		0	0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.88	758.9	29.91	759.7	34.0	1.1		sw.	5	2.2		5 cs	0	nw.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.96	761.0	42	5.6	74	sw.	3	1.3		0	0			0.025	0.6	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.88	758.9	29.95	760.7	30	— 1.1	88	sw.	2	0.9		5 c	0	sw.		0	0	fair	G. A. Blair.
Cornwall, Ontario	29.49	749.0	29.68	753.9	42.6	5.9	73	s.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.84	757.9	29.89	759.2	35.5	1.9		calm			0		10 s			0	0	overcast	H A. Johnson.
Edmonton, N. W. T *	27.66	702.6			13	—10.6	62	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.77	756.1	29.79	756.7	37	2.8	96	w.	10	4.5		8 k	0	calm		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.01	736.8	29.89	759.2	21	— 6.1	91	nw.	6	2.7		2 cs	0	nw.		0	0	fair	James Stewart.
Fredericton, N. B	29.92	760.0	29.99	761.7	28.0	— 2.2	98	calm	0	0		8 ck	0	w.		0	0	cloudy	Prof. Thos. Harrison
Grand Manan, N. B	29.92	760.0	29.98	761.5	42	5.6	86	s.	5	2.2		5 k	5 s	sw.	s.	0	0	fair	J. Chipman Seeley
Granton, Ontario	28.53	724.6	29.63	752.6	43.0	6.1	100	calm	0	0			10 n			0.28	7.1	raining	Jas. Grant.
Halifax, N. S*	29.90	759.4	30.03	762.7	40	4.4	82	calm	0	0		0	0			0.118	3.0	clear	A. Allison.
Hamilton, Ontario	29.16	740.7	29.55	750.6	45.2	7.3	96	ne.			1	10 cs	0	nw.		0.13	3.3	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.34	745.2	29.67	753.6	49	9.4	96	s.	4	1.8			10 n		se.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.89	759.2	29.93	760.2	49.8	9.9	64	w.			3	3 c	0	w.		0.76	19.3		C. H. Rigby.
London, Ontario	28.68	728.5	29.58	751.3	43.7	6.5	100	calm			0		10 n			0.400	10.2	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.66	702.6	30.06	763.5	22	— 5.6	70	calm	0	0		0	0			0	0	smoky	John Ewart.
Minnedosa, N. W. T	27.90	708.6	29.91	759.7	18	— 7.8	84	nw.	11	4.9		0	2 s		nw.	0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.54	750.3	29.75	755.6	43	6.1	80	s.	11	4.9			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.50	749.3	29.71	754.6	35.9	2.2	90	ne.					10 s			0.060	1.5	raining	A. McGill, M. A.
Parry Sound, Ontario*	28.96	735.6	29.66	753.4	43	6.1	93	e.	4	1.8		5 k	5 ks	w.	w.	inap.	inap.	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.81	731.8	29.55	750.6	40.7	4.8	99	n.			1		10 kn					raining	Wm. O'Connor, M.A.
Port Arthur	29.02	737.1	29.74	755.4	33	0.6	78	sw.	5	2.2		5 cs	5 ks			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	28.89	733 8	29.58	751.3	44	6.7	100	ne.	5	2.2			10 n			0.29	7.4	heavy rain	[illegible] Morgan
Port Stanley, Ontario	28.93	734.8	29.58	751.3	45	7.2	96	e.	5	2.2			10 n		e.	0.46	11.7	heavy rain	[illegible]
Qu Appelle, N. W. T	27.65	702.3	30.01	762.2	25	— 3.9	88	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.44	747.8	29.80	756.9	40	4.4	89	calm	0	0			10 ks		w.	0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.24	742.7	29.70	754.4	40	4.4	82	s.	2	0.9			10 s		s.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.89	759.2	29.95	760.7	40	4.4	73	w.	7	3.1		0	2 k		w.	0	0	fair	
St. John, N. B	29.83	757.7	29.98	761.5	37.0	2.8	93	n.	1	0.4			fg.			0.668	17.0	dense fog	G. Hutchinson.
Saint John's, N. F	29.53	750.0	29.78	756.4	46	7.8	92	se.			2		10s			0	0	cloudy	J. Higgins.
St. Pierre, N. F			29.73	755 0	46.4	8.0		n.			4					0.063	1.6		The Commandant.
Saugeen, Ontario*	28.92	734.6	29.64	752.8	41	5.0	92	se.	2	0.9			10 ks			0	0	cloudy	
Stratford, Ontario	28.41	721.6	29.62	752.3	42.3	5.7	91	se.	1.0	0.4			10 s			0.344	8.7	raining	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
S. W. Point, Anticosti	29.76	755.9	29.80	756.9	36	2.2	92	e.			1		10 ks		s.	0	0	cloudy	Miss Grace Pope.
Sydney, C. B.	29.90	759.4	29.96	761.0	42	5.6	89	sw.	8	3.6		5 c	0	w.		1.11	28.2	fair	[illegible], C. E.
Toronto, Ontario*	29.24	742.7	29.63	752.6	44	6.7	93	ne.	6	2.7			10 n			0.13	3.3	heavy rain	Magnetic Observatory.
Woodstock, Ontario	28.57	725.7	29.64	752.8	42.7	5.9	97		8	3.6			10 n			0.29	7.4	overcast	Prof. N Wolverton, M. A.
Yarmouth, N. S*	29.93	760.2	30.00	762.0	41	5.0	89	e.	1	0.4		5 ck	0	w.		0.01	0.3	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House.	30.04	763.0	30.07	763.8	64.0	17.8	89	se.	12.6	5.6		0	1 ks			0.10	2.5	clear	I. Garfelt.
Springbo (Fonte'n	27.86	707.6			83	28.3	34									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	29.98	761.5	30.06	763.5	57.6	14.2	89	n.			3	10	0	n.				cloudy	Samuel Redolez.
Iquique	30.01	762.2	30.04	762.9	63.0	17.2	78	ne.			2							foggy	Rafael Moreno.
Niebla	29.59	751.5	29.69	754.2	47.5	8.6	89	e.			2	1 c	0	s.		0	0		Federico Köhling.
Punta Caldera	29.96	761.0	30.05	763.2	59.0	15.0	83	nw.			1	7 c	0	nw.				fair	Manuel Tobar.
Punta Corona	30.08	764.0	30.27	768.8				s.			4	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.83	757.6	29.97	761.2	56.3	13.5	87	sw.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.31	642.8																	A. Gueluy.
Zi-Ka-Wei, near Shanghai.	30.10	764.5	30.12	765.1	59.5	15.3	88	ene.	1.8	0.8			0			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.45	748.1	29.50	749.3	54.9	12.7	85	wnw.	7	3			10						Oversergent Fischer.
Fanoe	29.58	751.3	29.60	751.8	50.2	10.1	86	n.			2		9						Overloerer Lauridsen.
Godthaab, Greenland	29.68	753.8	29.72	754.9	33.1	0.6	66	ne.			6		8						S. Kleinschmidt.
Jacobshavn, Greenland	30.06	763.5	30.11	764.7	32.2	0.1		e.			2		7					snowing	
Stykkisholm, Iceland	29.67	753.5	29.71	754.6	43.2	6.2	78	e.			2		2						A. O. Thorlacius.
Thorshavn	29.71	754.5	29.73	755.1	45.3	7.4	79	n.	7	3			7						Overloerer Bergh.
Vestervig	29.51	749.6	29.60	751.9	46.6	8.1	94	ne.			4		10					raining	Loerer Oesterhof.
EGYPTIAN.																			
Cairo	29.78	756.5			86.0	30.0		ne.	11.9	5.3			0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.47	748.4	30.13	765.2	53.2	11.8	80	wnw.			2		nk			0.150	3.8		M. Labroue, Director.
Alençon, Normal School	29.57	751.1	30.12	765.1	51.8	11	97	s.			1		5		n.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	29.84	757.9	29.92	759.9	64.4	18	50	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.40	746.7	29.96	760.9	52.2	11.2	71	nw.			2		8 kn		nw.	0.039	1.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.71	754.7	29.98	761.4	51.3	10.7	75	nw.			1		10		nw.	0.063	1.6	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.03	737.3	29.91	759.7	47.8	8.8	94	ssw.			1		5		ese.	0.20	5.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.5	30.09	764.2	55.9	13.3	63	n.			1		8		nne.	0.016	0.4	covered	M. Rayet, Director.
Bourges, Normal School	29.50	749.3	30.10	764.4	53.6	12	65	nw.			1		nk		nw.	0.087	2.2		M. Malet, Director.
Brest, Naval Observatory	29.97	761.1	30.21	767.2	53.2	11.8	78	n.			4		4		n.	0.098	2.5		M. de Kermarée, Dir.
Caen, Normal School	29.95	760.6	30.02	762.5	53.2	11.8	67	nnw.			2				n.	0.04	1.		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.59	751.5	29.83	757.6	49.5	9.7	86	wsw.			6		8	nw.	w.	0.165	4.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.31	744.5	29.83	757.6	52.7	11.5	80	w.			2		5			0	0	½ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.66	727.9	30.02	762.6	50.7	10.4	62	n.			2		10		nw.	0.012	0.3		M. Alluard, Director.
Cluny, Normal School	29.14	740.2	29.98	761.4	55.8	13.2	67	nw.			1				nw.	0.008	0.2		M. de Villemontée, Dir.
Commercy, Normal School	29.04	737.7	29.91	759.7	47.7	8.7	80	w.			4		8 kn	w.	w.	0.067	1.7	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.31	693.6	29.81	757.1	57.2	14	60	sw.			4		2 k	n.		0	0		M. Jarach, Director.
Gréasque, du Rhone	28.74	730.1	29.85	758.3	60.6	15.9	45	nw.			4		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.20	741.7	29.96	761.0	57.6	14.2	86	nw.			4		kn		nnw.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.50	724.0	30.10	764.6	48.2	9	61	nw.			1		n		nw.	0.31	8.		M. Delorme, Dir.
Lamballe, Normal School	29.71	754.5	29.98	761.5	57.2	14	93	nnw.			4		5		nnw.	0.256	6.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.48	748.8	30.05	763.2	57.2	14.0	57	w.			2		5			0.028	0.7	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.08	764.0	30.18	766.6	57.6	14.2	57	nw.			2		8	nnw.	n.	0.012	0.3	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.0	30.01	762.2	47.3	8.5	86	ne.			1		10 n			0.106	2.7	raining	M. Andre, Director.
Mans, Normal School	29.74	755.5	30.05	763.3	53.2	11.8	60	n.			4		5		n.	0.217	5.5	cloudy	M. Richard, Director
Marseille, Observatory	29.60	751.9	29.87	758.7	64.4	18.0	52	nw.			3–4		1			0	0		M. Stephan, Director.
Montlouis	24.78	629.4	29.62	752.4	44.6	7.0	44	sw.	13.0	5.8			10		nw.	0.224	5.7		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.3	30.00	762.1	66.2	19	75	nnw.			6		2	e.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.11	739.4	29.90	759.4	49.3	9.6	76	w.			1		kn		w.	0.276	7.0		M. Hasse, Director.
Nantes, Observatory	29.98	761.6	30.14	765.6	54.0	12.2	57	nnw.			1		8n;kn;k		n.	0.016	0.4		M. Larocque, Director.
Perpignan, Observatory	29.88	759.0	29.99	761.8	62.8	17.1	50	nw.	11.2	5.0			2		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.10	536.0			28.4	− 2.0							5		nw.	0.669	17.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.80	731.6	29.87	758.6	62.6	17	46	ne.			3		2	n.	n.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.09	637.3			31.6	− 0.2	100	nnw.			4		10			0.067	1.7	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	59.4	15.2	60	n.			2		2		n.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.6	30.12	765.1	54.0	12.2	100	nnw.			2		8	nnw.	nnw.	0	0	very cloudy	M. Brotier, Director.
Rodez, Normal School	27.80	706.0	29.98	761.6	44.1	6.7	84	nw.			2		10		se.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.96	760.9	30.00	762.1	53.6	12	93	nne.			4		8	n.		0.028	0.7	very cloudy	M. Moullot, Dir.
St Lô	29.93	760.1	30.07	763.7	52.5	11.4	69	nw.			2		5		n.	0.146	3.7	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.82	757.3	29.98	761.5	50.4	10.2	76	nw.			2		10		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.36	745.8	30.09	764.2	55.8	13.2	72	w.			1		8	nw.		0.157	4.0	very cloudy	M. Baillard, Director.
Tours	29.87	758.7	30.05	763.2	65.5	18.6	60	wnw.			1		8	n.	nw.	0.059	1.5	very cloudy	M. de Tastes.
Versailles, Observatory	29.49	749.1	29.98	761.6	51.4	10.8	65	n.			2		8			0.004	0.1	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.97	761.2	30.12	765.0	58.5	14.7	57	nw.	7.8	3.5			8 k;kn	w.	n.	0.862	21.9	raining	M. Cartier, Director.
GERMAN.																			
Ansbach	28.40	721.4	29.85	758.2	51.4	10.8	60	w.			2		6	w.		0.012	0.3		Prof. Jnedt.
Bamberg	28.96	735.6	29.80	756.9	54.1	12.3	70	w.			2		3 k		nw.	0.028	0.7		Prof. Dr. Hoh.
Berlin	29.52	749.7	29.66	753.3	53.6	12.0	90	w.			4		10			0.228	5.8		Dr. Lensch.
Breslau	29.22	742.2	29.74	755.5	56.3	13.5	56	w.			3		10			0	0		Royal University Obs'y.
Carlsruhe	29.43	747.4	29.98	759.0	53.6	12.0	67	sw			2		9	sw.		0.087	2.2		Albert Senz.
Cassel	29.04	737.5	29.75	755.6	52.3	11.3	70	s.			6		8	w.		0.024	0.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.47	748.6	29.84	757.9	53.4	11.9	68	wsw.			1		8			0.075	1.9		Physical Society.
Friedrichshafen	28.47	723.0	29.87	758.6	56.5	13.6	66	w.			3		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.54	750.3	29.63	752.6	50.9	10.5	91	wsw.			5		10			0.461	11.7	raining	E. Preller.
Kiel	29.55	750.6	29.57	751.0	53.1	11.7	80	w.			2		10			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.33	744.9	29.74	755.5	54.1	12.3	66	w.			3		9	wsw.		0.047	1.2		H. Leppig, Asst.
Magdeburg	29.51	749.5	29.70	754.3	52.3	11.3	79	w.			5		9	wsw.		0.185	4.7		Weather Observatory.
Memel	29.58	751.4	29.63	752.6	58.3	14.6	77	sw.			3	ck	6 kn						Issermann.
Munich	28.04	712.1	29.89	759.2	52.9	11.6	63	nw.			4		8	w.		0	0		Central Station.
Neufahrwasser	29.58	751.3	29.60	751.7	55.9	13.3	75	sw.			2		10			0.024	0.6		A. Lothes.
Neustadt, Palatinate	29.31	744.4	29.83	757.6	54.0	12.2	55	sw.			4		6	sw.		0	0		Dicknether.
Stuttgart	28.91	734.3	29.80	756.9	52.7	11.5	66	n.			1		7	w.		0.016	0.4		Prof. Dr. Schoder.
Wustrow	29.50	749.4	29.53	750.0	52.2	11.2	84	wsw.			5		10 8			0.228	5.8		Profs. Brandes & Reimer
GREEK.																			
Athens	29.49	749.1	29.86	758.4	84.2	29.0		s.			4.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.80	757.0	29.89	759.1	82.9	28.3	74	w.	23.0	10.3			1	wsw.		0	0	d. clouds	
Deesa	29.32	744.7	29.79	756.7	86.5	30.3	54	e.	5.0	2.2			2	e.		0.80	20.3	d. clouds	
Bombay	29.81	757.2	29.85	758.2	80.3	26.8	86	wnw.	11.0	4.9			1	nw.		0.09	2.3	d. clouds	
Poona, Yarrowda	27.99	710.9	29.85	758.2	76.3	24.6	73	nw.	17.0	7.6			7		nw.	0.33	8.4	d. clouds	
Trichinopoly	29.53	750.0	29.80	757.0	87.5	30.8	64	nw.	0.2	0.1			10			0	0	overcast	
Bellary	28.31	719.0	29.78	756.3	78.0	25.6	82	n.	6.0	2.7			10	se.		0	0	overcast	
Belgaum	27.30	693.4	29.85	758.1	73.5	23.1	83	wsw.	11.0	4.9			8	e.	w.	0	0	d. clouds	
Lahore	29.05	737.8	29.78	756.3	88.1	31.2	48	calm	0	0			0			0	0	blue sky	
Roorkee	28.87	733.2	29.75	755.7	86.8	30.4	52	calm	0	0			1			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p.sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Agra	29.22	742.2	29.77	756.2	94.1	34.5	34	w.	4.0	1.8	.....	.....	6	.....	w.	0	0	d. clouds	
Nagpur	28.75	730.2	29.78	756.3	87.7	30.9	48	calm	0	0	.....	.....	2	.....	.....	0	0	d. clouds	
Jubbulpore	28.45	722.7	29.79	756.7	86.3	30.2	49	ne.	6.0	2.7	.....	.....	4	e	.....	0	0	d. clouds	
Lucknow	29.36	745.8	29.74	755.3	87.1	30.6	54	n.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.46	748.3	29.77	756.1	85.8	29.9	55	calm	0	0	.....	.....	1	.....	.....	0	0	d. clouds	
Patna	29.58	751.4	29.76	756.0	86.4	30.2	61	calm	2.5	1.1	.....	.....	0	.....	.....	0	0	blue sky	
Hazaribagh	27.79	705.8	29.78	756.3	82.7	28.2	54	nnw.	5.1	2.3	.....	.....	1	.....	.....	0	0	d. clouds	
Cuttack	29.70	754.4	29.78	756.4	86.5	30.3	68	calm	0	0	.....	.....	6	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.75	755.6	29.77	756.2	83.8	28.8	83	ese.	1.0	0.4	.....	.....	1	.....	.....	0	0	d. clouds	
Dhubri	29.65	753.2	29.77	756.2	80.0	26.7	89	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.71	754.7	29.80	757.0	82.2	27.9	84	calm	1.6	0.7	.....	.....	3	.....	.....	0	0	d. clouds	
Sibsagar	29.45	748.1	29.79	756.6	83.0	28.3	83	ne.	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Jeypore	28.38	720.8	29.80	756.9	88.1	31.2	43	ese.	3.5	1.6	.....	.....	7	.....	nnw.	0.06	1.5	d. clouds	
Zanzibar	29.82	757.4	.....	.....	82.1	27.8	68	ssw.	6.6	3.0	.....	.....	4	ssw.	ene.	0	0	d. clouds.	
ITALIAN.																			
Udine	29.43	747.6	29.84	757.9	58.5	14.7	78	s.	0.7	0.3	.....	.....	9	.....	.....	0.268	6.8	.....	Prof. Giovanni Clodig.
Milan	29.31	744.4	29.82	757.5	63.0	17.2	41	w.	4.3	1.9	.....	.....	2	w.	.....	0.051	1.3	.....	Prof. G. V. Schiapparelli
Padua	29.70	754.4	29.81	757.2	64.2	17.9	55	sw.	1.8	0.8	.....	.....	6	w.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.90	734.0	29.80	757.0	62.8	17.1	44	ssw.	2.5	1.1	.....	.....	2	.....	.....	0.551	14.0	.....	Prof. F. F. Denza.
Genoa	29.61	752.1	29.80	757.0	68.0	20.0	52	sw.	3.1	1.4	.....	.....	2	s.	.....	1.083	27.5	.....	Prof. G. M. Garibaldi.
Mondovi	27.91	708.8	29.82	757.5	58.6	14.8	69	nw.	.....	.....	2	.....	1	.....	.....	0.516	13.1	.....	Prof. D. C. Bruno.
Pesaro	29.80	756.8	29.84	758.0	65.1	18.4	66	n.	10.5	4.7	.....	.....	8	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.62	752.4	29.87	758.8	59.0	15.0	86	sw.	.....	.....	2	.....	10	.....	.....	0.472	12.0	.....	Prof. Costantino Pittei
Leghorn	29.70	754.4	29.79	756.6	67.8	19.9	60	sw.	16.1	7.2	.....	.....	6	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.73	755.1	29.90	759.5	68.7	20.4	54	sw.	9.8	4.4	.....	.....	10	sw.	.....	0.189	4.8	.....	Prof. P. Tacchini.
Lecce	29.67	753.6	29.92	760.0	75.6	24.2	33	w.	15.0	6.7	.....	.....	1	.....	.....	0.020	0.5	.....	Prof. C. de Giorgi.
Cosenza	29.04	737.7	29.92	760.0	71.6	22.0	66	wnw.	3.1	1.4	.....	.....	4	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.69	754.0	29.87	758.8	72.0	22.2	58	calm	.....	.....	0	.....	7	w.	.....	0.004	0.1	.....	Prof. A. Pacinotti.
Palermo	29.72	754.9	29.97	761.2	71.2	21.8	60	ne.	3.8	1.7	.....	.....	0	.....	.....	0	0	.....	Prof. G. Caccciatore.
Syracuse	29.87	758.6	29.91	759.7	75.2	24.0	60	e.	4.9	2.2	.....	.....	3	wnw.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.43	747.5	29.94	760.5	68.0	20.0	60	sw.	11.9	5.3	.....	.....	6	wsw.	.....	0.059	1.5	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.07	763.8	30.10	764.7	51.1	10.6	99	calm	.....	.....	0	.....	10 k	.....	w.	0	0	cloudy	H. Hattori.
Awomori	29.99	761.7	30.03	762.7	53.3	11.8	74	ssw.	9.7	4.3	.....	.....	9 ks	.....	nw.	0.054	1.4	cloudy	K. Ogawa.
Hamamatsu	29.97	761.2	30.07	763.7	64.8	18.2	93	n.	.....	.....	2	0	3 s	.....	n.	0.024	0.6	fair	Sekigawa & Yamazaki.
Kagoshima	30.02	762.5	30.03	762.8	71.5	21.9	75	ene.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kanazawa	29.99	761.7	30.10	764.4	56.5	13.6	96	e.	2.2	1.0	.....	0	0	.....	.....	0	0	clear	S. Endo.
Kioto	29.91	759.8	30.09	764.2	56.9	13.8	88	ne.	1.2	0.5	.....	0	0	.....	.....	0	0	clear	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	65.5	18.6	88	nw.	3.1	1.3	.....	0	0	.....	.....	0	0	clear	K. Kusunose.
Miasaka	30.02	762.6	30.05	763.3	66.2	19.0	93	nne	.....	.....	1	0	9 s	.....	e.	0	0	cloudy	K. Masusaki
Miyako	29.96	761.1	30.07	763.9	48.7	9.3	95	wsw.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.84	757.9	30.04	763.0	67.1	19.5	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	S. Takehayasu.
Niigata	30.08	764.0	30.12	765.0	53.9	12.2	94	ne.	1.5	0.6	.....	0	0	.....	.....	0	0	clear	Satoo & Tomikawa.
Nobiru	30.06	763.6	30.08	764.0	51.9	11.1	89	nnw.	5.6	2.5	.....	0	0	.....	.....	0	0	clear	Yoshino & Midzushina.
Numazu	30.04	763.0	30.07	763.8	61.4	16.3	86	e.	.....	.....	1	0	0	.....	.....	0	0	clear	K. Kaneda.
Osaka	30.06	763.5	30.08	763.9	59.8	15.4	83	ne.	4.0	1.8	.....	0	0	.....	.....	0	0	clear	H. Omura.
Sakai	30.07	763.8	30.08	764.0	65.7	18.7	70	ne.	.....	.....	2	0	1 ks	.....	e.	0	0	clear	Yamawchi & Sakamoto.
Shimonoseki	29.92	759.8	30.06	763.5	66.6	19.2	78	calm	.....	.....	0	0	0	.....	.....	0	0	clear	S. Sakai.
Tokei Obs'y, Yeddo	30.02	762.4	30.09	764.3	60.5	15.8	96	nnw.	4.9	2.1	.....	0	0	.....	.....	0.085	2.2	clear	The Staff.
Wakayama	30.00	762.1	30.06	763.4	62.4	16.9	77	ne.	2.3	1.0	.....	0	0	.....	.....	0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	76.3	24.6	61	sse.	10.5	4.7	.....	0	1 k	.....	.....	0.08	2.0	clear	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.05	763.3	53.6	12.0	91	calm	0	0	.....	7 c	0	.....	.....	inap.	inap.	covered	Prof. M. Leal.
Mazatlan	29.57	751.0	29.82	757.5	78.0	25.6	91	ne.	1.6	0.8	.....	6 cs	0	se.	.....	inap.	inap.	threatening.	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	76	24.4	.....	ne.	3.4	1.5	.....	.....	9 s	.....	se.	0.80	20.3	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.82	757.5	29.82	757.5	53.1	11.7	.....	nw.	.....	.....	5	.....	.....	.....	.....	0.252	6.4	.....	
Groningen	29.72	755.0	29.78	756.4	51.4	10.8	.....	nne.	.....	.....	1	.....	.....	.....	.....	0.382	9.7	.....	
Helder	29.72	755.0	29.72	755.0	55.4	13.0	.....	n.	.....	.....	2	.....	.....	.....	.....	0.028	0.7	.....	
Hellevoetsluis	29.76	755.8	29.76	755.8	54.5	12.5	81	nw.	.....	.....	3	.....	.....	.....	.....	0.657	16.7	.....	
Utrecht	29.72	754.8	29.76	756.0	54.9	12.7	90	wnw.	.....	.....	2	.....	5	.....	.....	0.114	2.9	cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.90	759.5	.....	.....	81.9	27.7	70	nne.	1.0	0.4	.....	.....	6	.....	.....	0.394	10.0	.....	Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.65	753.0	29.71	754.6	53.6	12.0	65	s.	7	3	.....	.....	8	.....	.....	0	0	.....	
Brono	29.66	753.3	29.70	754.3	46.0	7.8	75	sw.	.....	.....	4	.....	9	.....	.....	0.047	1.2	.....	
Christiania	29.57	751.0	29.71	754.7	47.3	8.5	30	nnw.	7	3	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	29.35	745.4	29.37	746.0	36.0	2.2	.....	nnw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining.	
Lodingen	29.56	750.7	29.60	751.9	44.1	6.7	69	sw.	.....	.....	4	.....	9	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	68.9	20.5	80	se.	11.2	5.0	.....	.....	3	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santo
Funchal, Madeira	30.23	767.9	30.32	770.2	71.1	21.7	50	se.	4.9	2.2	.....	.....	6	.....	n.	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.17	766.4	60.4	15.8	48	nne.	31.1	13.9	.....	.....	1	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.40	773.7	30.53	775.5	70.9	21.6	54	ese.	11.9	5.3	.....	.....	5	.....	n.	0	0	.....	
Saint Paul de Loando	29.79	759.7	30.00	761.9	73.4	23.0	92	wnw.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	
San Salvador, Congo	28.13	714.5	29.95	760.8	81.3	27.4	56	se.	.....	.....	2	.....	1	.....	e.	0	0	.....	
Serra da Estrella	25.38	644.7	30.21	767.4	40.6	4.8	67	n.	17.4	7.8	.....	.....	5	.....	.....	0.051	1.3	.....	
RUSSIAN.																			
Akmolinski	28.80	731.5	29.84	758.0	64.9	18.3	30	w.	4	2	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.56	750.9	29.58	751.4	41.9	5.5	71	ssw.	9	4	.....	1 cs	0	.....	.....	0	0	.....	Capt. Sseliwerstow
Ashurada	30.11	764.9	30.02	762.5	78.8	26.0	71	nw.	9	4	.....	0	3 k	.....	.....	blank	blank	.....	Capt. Wisganow.
Astrakhan	30.00	762.1	29.93	760.3	81.3	27.4	48	wsw.	13	6	.....	0	5 k	.....	.....	0	0	.....	
Baku	30.06	763.6	30.02	762.4	76.3	24.6	77	s.	9	4	.....	0	1 ks	.....	.....	0	0	.....	Meteorological Obs'y
Barnaul	29.42	747.2	29.90	759.5	62.6	17.0	38	sw.	4	2	.....	.....	9	.....	.....	0.012	0.3	.....	
Bielosersk	29.17	740.9	29.64	752.8	45.7	7.6	98	nne.	2	1	.....	.....	10 s	.....	.....	0.134	3.4	.....	Observatory.
Dorpat	29.35	745.5	29.59	751.6	51.3	10.7	94	ne.	4	2	.....	.....	10ks;n	.....	.....	0.024	0.6	raining	Meteorological Obs'y.
Ekaterinburg	28.05	727.7	29.60	751.8	50.5	10.3	86	s.	4	2	.....	.....	10 n	.....	.....	0.008	0.2	.....	
Elissawetgrad	29.20	741.7	29.63	752.6	71.6	22.0	65	wsw.	7	3	.....	.....	10 ks	.....	.....	0	0	.....	
Irkutsk	28.42	721.8	30.07	763.7	47.1	8.4	60	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	
Kasalinsk	.....	.....	.....	.....	73.8	23.2	28	se.	4	2	.....	0	1 s	.....	.....	.....	.....	.....	Observatory.
Kasan	29.41	746.9	29.67	753.6	60.4	15.8	78	wsw.	2	1	.....	0	8	.....	.....	0	0	.....	
Kem	29.53	750.0	29.58	751.3	45.0	7.2	60	w.	9	4	.....	0	1 s	.....	.....	0	0	.....	Lagorio & Sastyrea.
Kertch	29.76	756.0	29.79	756.6	75.4	24.1	70	se.	4	2	.....	2 c	0	.....	.....	0	0	.....	Observatory.
Kieff	28.95	735.4	29.56	750.9	64.2	17.9	62	w.	7	3	.....	cs	9 ks	.....	.....	0	0	light clouds	
Koslov	29.16	740.7	29.65	753.0	66.6	19.2	70	ssw.	4	2	.....	0	8 kn	.....	.....	0	0	.....	
Liban	29.56	750.9	29.59	751.5	59.0	15.0	77	s.	11	5	.....	.....	1	.....	.....	0	0	.....	E. Quaas.
Lugan	29.50	749.2	29.69	754.2	75.7	24.3	58	ssw.	22	10	.....	.....	9	.....	.....	0.165	4.2	.....	Meteorological Obs'y.
Moscow	29.13	739.9	29.59	751.6	57.6	14.2	90	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.59	751.6	29.66	753.4	72.0	22.2	71	s.	13	6	.....	cs	8 n	.....	.....	0.193	4.9	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.37	746.0	29.46	748.2	44.1	6.7	84	w.	4	2	.....	.....	10 n	.....	.....	.....	.....	raining	Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Miles p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.76	755.9	29.90	759.5	66.0	18.9	79	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.71	754.6	30.05	763.2	76.1	24.5	36	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.46	748.3	29.66	753.4	41.2	5.1	74	ese.	7	3	.....	0	1 s	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.17	740.8	29.65	753.1	60.6	15.9	67	w.	9	4	.....	0	4 k	.....	.....	0.256	6.5	.....	
Poti	29.93	760 3	29.97	761.1	80.1	26.7	82	nw.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.59	751.6	29.61	752.2	46.4	8.0	90	ne.	9	4	.....	.....	10 n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.64	702.0	30.06	763.6	64.4	18.0	68	calm	0	0	.....	0	7 k	.....	.....	0.012	0.3	.....	
Semipalatinsk	29.32	744.8	29.97	761.1	64.6	18.1	39	calm	0	0	.....	.....	2	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.58	751.3	29.78	756.5	74.8	23.8	72	s.	27	12	.....	2 cs	0	.....	.....	0.004	0.1	.....	
Starol Bykhov	29.01	736.9	29.56	750.7	57.6	14.2	92	ne.	4	2	.....	.....	10 kn	.....	.....	0.157	4.0	raining.	
Tashkend Laboratory	28.34	719.8	29.97	761.1	68.0	20.0	53	calm	0	0	.....	.....	9 k	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.57	725.7	29.91	759.7	84.6	29.2	32	nw.	2	1	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.40	695.9	29.85	758.1	60.4	15.8	72	calm	0	0	.....	0	3 k	.....	.....	0	0	.....	
Viatka	29.04	737.7	29.67	753.5	51.8	11.0	70	calm	0	0	.....	.....	10	.....	.....	0.268	6.8	.....	
Warsaw	29.28	743.6	29.69	754.2	58.1	14.5	63	w.	9	4	.....	0	8 k	.....	.....	0	0	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.64	752.9	29.94	760.4	35.1	1.7	94	w.	2	1	.....	.....	10	.....	.....	0.098	2.5	rain & snow	M. O. Marks.
Scottish.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.2	65.8	18.8	67	s	15.4	6.9	.....	0	6	.....	.....	0	0	.....	Antonio Molins.
Bilbao, Met. Obs'y	30.15	765.9	30.21	767.4	55.4	13.0	87	nw.	2.2	1.0	.....	.....	10	.....	.....	0.823	20.9	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.91	683.5	30.22	767.6	46.4	8.0	73	ne.	4.3	1.9	.....	0	7	.....	.....	0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.3	30.07	763.7	59.0	15.0	42	n.	18.6	8.3	.....	0	2	.....	.....	0	0	.....	The Staff.
Murcia, Met. Obs'y	29.82	757.4	29.95	760.8	64.8	18.2	57	wnw.	6.0	2.7	.....	2	5	sw.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.43	747.6	30.19	766.9	47.3	8.5	95	e.	10.5	4.7	.....	.....	10 n	.....	w.	0.346	8.8	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.35	745.6	30.26	768.6	57.0	13.9	60	n.	2.0	0.9	.....	.....	3	.....	.....	0.224	5.7	.....	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	761 1	30.03	762.8	76.8	24.9	85	e.	3.4	1.5	.....	0	0	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	80.2	26.8	84	wsw.	17.6	7.9	.....	2 c	4 k	.....	.....	0.039	1.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.7	30.09	764.2	62.4	16.9	60	nw	12.9	5.8	.....	0	0	.....	.....	0.05	1.4	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.91	759.6	30.00	761.9	81.3	27.4	84	calm	0	0	.....	2 cs	3 kn	se.	se.	0.126	3.2	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.63	752.6	29.67	753.6	43.9	6.6	71	sw.	.....	.....	2	.....	c	.....	.....	0	0	.....	
Umea	29.64	752.8	29.69	754.1	47.1	8.4	57	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Hernosand	29.69	754.1	29.74	755.4	49.6	9.8	45	ene.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Stockholm	29.48	748.8	29.66	753.3	44.8	7.1	81	ne.	.....	.....	6	.....	10	.....	.....	0.138	3.5	.....	
Wisby	29.46	748.2	29.52	749.7	55.0	12.8	96	s.	.....	.....	4	.....	10	.....	.....	0.185	4.7	raining	
Sub-series.																			
Upsala	29.57	751.1	29.66	753.3	45.5	7.5	58	ne.	12.3	5.5	.....	.....	9	.....	.....	0	0	foggy	H.H.Hildebrandesson.
Swiss.																			
Geneva	28.52	724.3	29.92	760.0	61.0	16.1	57	sse.	.....	.....	2	.....	9	.....	.....	0.043	1.1	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.85	758.1	87.4	30.8	34	sw.	14	6.5	.....	.....	2	.....	sw	0	0	.....	The Observatory.
Valona	.....	.....	30.05?	763.2?	73.8	23.2	.....	sw.	.....	.....	1	.....	2	.....	.....	3.35	85.	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.7	81.0	27.2	66	n.	.....	.....	1	.....	1 k	.....	ne.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.59	675.4	.....	.....	77	25.0	69	sw.	.....	.....	1	2 ck	.....	w.	.....	3.59	91.2	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	29.71	754.6	29.79	756.7	45	7.2	68	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.03	737.3	29.70	754.4	33	0.6	88	nw.	6	2.7	.....	0	fg	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.88	631.9	29.78	756.4	40	4.4	67	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.13	689.1	30.05	763.3	28	— 2.2	59	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.76	730.5	29.95	760.7	73.0	22.8	90	sw.	14	6.3	.....	.....	10 ks	.....	w.	0.07	1.8	cloudy	Edward A. Beals.
Atlantic City, New Jersey	29.70	754.4	29.71	754.6	62	16.7	100	se.	19	8.5	.....	.....	10 n	.....	se.	0.28	7.1	heavy rain	Jas. M. Watson.
Augusta, Georgia	29.75	755.6	29.94	760.5	74.0	23.3	84	sw.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	29.64	752.8	29.69	754.1	62	16.7	100	se.	5	2.2	.....	.....	10n;fg	.....	.....	0.31	7.9	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	29.74	755.4	29.76	755.9	60.0	15.6	100	s.	30	13.4	.....	.....	10 n	.....	.....	0.14	3.6	heavy rain	G. A. Hill.
Behring Id., Behring Sea	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. Chernick.
Bennett, Fort, Dakota	28.37	720.6	29.99	761.7	26.0	— 3.3	76	nw.	2	0.9	.....	2 c	3 s	nw.	nw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.23	691.6	30.14	765.5	37	2.8	82	calm	0	0	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	Thomas Morgan.
Bismarck, Dakota	28.14	714.7	30.02	762.5	20.5	— 6.4	80	n.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	29.87	758.7	29.90	759.4	53.0	11.7	72	s.	19	8.5	.....	.....	10 s	.....	sw.	0	0	cloudy	J. T. Eiker.
Boise City, Idaho	27.01	686.0	29.87	758.7	42	5.6	76	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.77	756.1	29.93	760.2	45.5	7.5	80	se.	12	5.4	.....	0	9 s	.....	s.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.75	755.6	29.81	757.2	78.0	25.6	90	s.	12	5.4	.....	1 ck	2 ks	w.	s.	0	0	clear	John McGlone.
Buffalo, New York	28.84	732.5	29.60	751.8	45	7.2	100	ne.	3	1.3	.....	.....	10n;fg	.....	.....	0.20	5.1	light rain	Wm. Finn.
Buford, Fort, Dakota	27.99	710.9	30.04	763.0	18	— 7.8	70	n.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	A. Schneider.
Cairo, Illinois	29.30	744.2	29.70	754.4	70.7	21.5	83	nw.	20	8.9	.....	0	4 s	.....	nw.	0.27	6.9	fair	W. H. Ray.
Canby, Fort, Washington Ter	29 84	757.9	30.04	763.0	54.1	12.3	88	n.	6	2.7	.....	0	4 s	.....	n.	0.33	8.4	fair	O. D. Stewart.
Cape Henry, Virginia	29.75	755.6	29.77	756.1	73 0	22.8	84	s.	16	7.2	.....	0	7 ks	.....	s.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.66	753.4	29.68	753.9	65.7	18.7	93	se.	28	12.5	.....	.....	10 n	.....	.....	0.55	14 0	light rain	Wm. Bolton.
Cape Mendocino, California	29.34	745.2	30.03	762.7	51	10.6	93	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.54	13.7	cloudy	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	80.5	26.7	79	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.85	758.2	29.91	759.7	76.0	24.4	90	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	28.96	735.6	29.82	757.4	71.5	21.9	83	sw.	6	2.7	.....	5 cs	fg.	w.	.....	0.70	17.8	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.00	736.6	29.83	757.7	72.0	22.2	84	sw.	14	6.3	.....	.....	10 ks	.....	sw.	0.25	6.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.92	607.6	29.94	760.5	40.4	4.7	76	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.00	736.6	29.71	754.6	49.5	9.7	63	n.	8	3.6	.....	0	0	.....	.....	1.76	44.7	clear	Wm. Norrington.
Chincoteague, Virginia	29.71	754.6	29.73	755.1	68	20.0	100	s.	4	1.8	.....	.....	9 s	.....	sw.	1.43	36.3	cloudy	C. F. Dickens.
Cincinnati, Ohio	28.86	733.0	29.52	749.8	66.5	19.2	87	n.	6	2.7	.....	.....	10 n	.....	n.	1.49	37.8	light rain	L. Dunne.
Cleveland, Ohio	28.78	731.0	29.52	749.8	53.5	11.9	86	ne.	9	4.0	.....	.....	10 n	.....	ne.	1.38	35.1	light rain	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenau.
Columbus, Ohio	28.57	725.7	29.43	747.5	63	17.2	93	sw.	17	7.6	.....	.....	10 s	.....	sw.	1.08	27.4	threatening	D. Cuthbertson.
Concho, Fort, Texas	27.83	706.9	29.78	756.4	70.2	21.2	90	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	C. E. King.
Custer, Fort, M. T	26.83	681.5	30.07	763 8	40	4.4	82	nw.	2	0.9	.....	.....	10 n	.....	.....	0.02	0.5	light rain	T. Gibson.
Davenport, Iowa	29.13	739.9	29.79	756.7	42	5.6	83	n.	10	4.5	.....	3 cs	0	w.	.....	1.46	37.1	clear	R. R. Martin.
Davis, Fort, Texas	25.10	637.5	29.95	760.7	59	15.0	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.97	761.2	48.5	9.2	86	sw.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	D. Moore.
Deadwood, Dakota	25.28	642.1	29.96	761.0	42	5.6	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del.	29.71	754.6	29.73	755 1	65	18.3	100	se.	32	14.3	.....	.....	10 n	.....	se.	0.12	3.0	light rain	F. W. Mixer.
Denver, Colorado	24.63	625.6	29.89	759.2	41.7	5.4	59	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.97	735.8	29.89	759.2	43	6.1	93	n.	4	1.8	.....	0	fg.	.....	.....	1.62	41.1	clear	F. W. Conrad.
Detroit, Michigan	28.88	733.5	29.58	751.3	51.0	10.6	100	e.	9	4.0	.....	.....	10 n	.....	.....	0.36	9.1	light rain	E. R. Brace.
Dodge City, Kansas	27.28	692.9	29.91	759.7	48	8.9	80	n.	16	7.2	.....	.....	10 s	.....	n.	0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.11	739.4	29.83	757.7	39	3.9	84	nw.	5	2.2	.....	0	3 s;fg	.....	.....	0.76	19.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.05	737.9	29.81	757.2	34	1.1	72	w.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	N. B. Conger.
Eastport, Maine	29.88	758.9	29.96	761.0	44.0	6.7	68	s.	1	0.4	.....	3 cs	0	w.	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.87	758.7	53	11.7	86	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.13	663.7	29.87	758.7	62.0	16.7	62	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.77	730.7	29.50	749 3	50	10.0	93	ne.	12	5.4	.....	.....	10 n	.....	.....	0.58	14.7	heavy rain	C. A. Shaw.
Escanaba, Michigan	29.06	738.1	29.73	755.1	35.5	1.9	83	n.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	George Heathcote.
Galveston, Texas	29.80	756.9	29.84	757.9	80	26.7	82	sw.	13	5.8	.....	4 cs	4 ks	.....	sw.	map.	map.	cloudy	E. O'C. Macnerney.
Grand Haven, Michigan	29.03	737.3	29.70	754.4	40.0	4.4	89	n.	8	3.6	.....	hz.	0	.....	.....	0.12	3.0	clear	Wm. H. Fallon.
Grant, Fort Arizona	25.08	637.0	29.78	756.4	56.2	13.4	52	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Hatteras, North Carolina	29.85	758.2	29.86	758.4	77.0	25.0	85	s.	16	7.2		hz.	0			0	0	clear	R. M. Crawford
Helena, Montana	25.66	651.8	29.96	761.0	43	6.1	93	n.	4	1.8			10 n			blank	blank	light rain	I. H. Jones.
Huron, Dakota	28.54	724.9	29.97	761.2	26.5	— 3.1	78	nw.	4	1.8		2 k	3 s	nw.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.73	729.7	29.53	750.0	54.0	12.2	90	n.	8	3.6			10 n		ne.	1.36	34.5	heavy rain	C. F. R. Wappenhans.
Indianola, Texas	29.80	756.9	29.83	757.7	79.1	26.2	89	s.	21	9.4		0	4 k		sw.	0	0	fair	I. A. Reed.
Jacksonville Florida	29.97	761.2	30.01	762.2	77.0	25.0	85	sw.	12	5.4		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.14	740.1	29.81	757.2	47.0	8.3	86	n.	8	3.6			10 s		n.	1.35	34.3	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	81	27.2	74	se.	3	1.3		0	4 k		e.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	29.82	757.4	29.84	757.9	74.8	23.8	85	sw.	28	12.5		3 cs	0			0	0	clear	Wesley Blake.
Knoxville, Tennessee	28.75	730.2	29.79	756.7	72.4	22.4	82	sw.	21	9.4		0	6 s		sw.	0.21	5.3	fair	J. A. Cody.
La Crosse, Wisconsin	29.04	737.6	29.82	757.4	37	2.8	82	sw.	3	1.3		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	28.96	735.6	29.86	758.4	50	10.0	86	ne.	7	3.1			10 s		ne.	1.69	42.9	cloudy	T. S. Outram.
Lewiston, Idaho	29.04	737.6	29.89	759.2	55.0	12.8	80	calm	0	0			10 s			0.11	2.8	cloudy	C. E. Butler.
Little Rock, Arkansas	29.44	747.8	29.76	755.9	76.0	24.4	82	s.	4	1.8			10 s		s.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.42	747.3	29.82	757.4	57	13.9	93	ne	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	28.97	735.8	29.54	750.3	71.5	21.9	84	sw.	13	5.8		0	9 ks		w.	1.15	29.2	cloudy	L. M. Dev.
Lynchburg, Virginia	29.03	737.3	29.72	754.9	60.3	15.7	87	ne.	1	0.4			10s;fg			0.95	24.1	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.04	737.6	29.71	754.6	39.0	3.9	82	sw.	8	3.6		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	29.84	757.9	29.85	758.2	78.0	25.6	90	s.	18	8.0		0	5 k		sw.	0	0	fair	William Daly.
Maginnis, Fort, Montana	25 54	648.7	30.08	764.0	34	1.1	55	ne.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.00	736.6	29.74	755.4	36.0	2.2	61	nw.	8	3.6		1 k	0	nw.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.42	747.3	29.76	755.9	75	23.9	97	s.	8	3.6		0	8 s		s.	0.82	20.8	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.00	736.6	29.76	755.9	42	5.6	73	n.	9	4.0			10 s			0.07	1.8	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	29.93	760.2	29.97	761.2	78	25.6	94	sw.	1	0.4		0	4 k		sw.	0.02	0.5	fair	H. U. Jones.
Montgomery, Alabama	29.72	754.9	29.95	760.7	77.5	25.3	86	sw.	3	1.3		0	4 k		sw.	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.93	734.8	29.95	760.7	18	— 7.8	83	n.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	23.55	598.2	29.89	759.2	20.0	— 6.7	100	s.	34	15.2			fg.		s.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.09	738.9	29.67	753.6	74.5	23.6	79	sw.	14	6.3		6 cs	3 k	sw.	s.	0.13	3.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.70	754.4	29.82	757 4	43	6.1	100	n.	5	2.2			10 n			0.02	0.5	light rain	J. H. Sherman.
New London, Connecticut	29.81	757.2	29.86	758.4	51	10.6	100	se.	23	10.3			10 s		se.	0	0	threatening	J. G. Lynch.
New Orleans, Louisiana	29.90	759.4	29.95	760.7	77.0	25.0	90	sw.	3	1.3		0	1 k		sw.	0	0	clear	M. Herman.
New York, New York	29.61	752.1	29.79	756.7	58.0	14.4	86	se.	9	4.0			10 n		se.	0.01	0.3	light rain	H. J. Penrod.
Norfolk, Virginia	29.77	756.1	29.80	756 9	71.5	21.9	94	sw.	13	5.8		4 ck	fg.	w.		0.02	0.5	fair	Wm. Davis.
North Platte, Nebraska	27.01	686.0	29.97	761.2	43.6	6.4	88	calm	0	0		0	4 s			0.08	2.0	fair	E. F. Brady.
Olympia, Washington T'y	29.97	761.2	30.01	762.2	52.0	11.1	93	calm	0	0			10 n			0.13	3.3	light rain	J. Dascomb.
Omaha, Nebraska	28.73	729.7	29.93	760.2	43.5	6.4	96	n.	3	1.3			fg.			0.57	14.5	dense fog	A. Pollak
Oswego, New York	29.33	745.0	29.66	753.4	44.5	6.9	80	se.	10	4.5			10 n		sw.	0.03	0.8	light rain	J. G. Linsley
Palestine, Texas	29.30	744.2	29.86	758.4	75.0	23.9	88	s.	15	6.7		3 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.98	761.5	80.8	27.1	88	sw.	13	5.8		2 ck	2 ks	w.	sw.	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa	29.53	752.6	29.73	755.1	58	14.4	93	e.	5	2.2			10 n		e.	0.24	6.1	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.75	450.8	30.03	762.7	22	— 5.6	80	sw.	36	16.1		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.61	726.7	29.43	747.5	62.0	16.7	93	s.	5	2.2			10 n		w.	0.45	11.4	heavy rain	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	28.90	734.0	29.58	751.3	40.0	7.8	96	ne.	8	3.6			10 n			0.43	10.9	light rain	M. H. Perry
Portland, Maine	29.86	758 4	29.91	759.7	46.0	7.8	76	w.	1	0.4		10 cs	sk.	w.		0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.97	761.2	30.04	763.0	52.2	11.2	93	calm	0	0			10 s		s.	0.09	2.3	threatening	M. L. Hearne.
Portsmouth, N. C																			F. P. Chaffee.
Prescott, Arizona	24.57	624.1	29.73	755.1	51.5	10.8	52	se.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.92	760.0	29.95	760.7	50	10.0	67	se.	18	8.0			10 s		w.	0	0	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.60	751.8	29.96	761.0	51	10.6	66	n.	6	2.7		0	0			1.03	26.2	clear	J. R. Williams.
Rio Grande City, Texas	29.60	751.8	29.84	757.9	75.0	23.9	85	se.	4	1.8		0	0			0	0	clear	Fred. Belford.
Roseburg, Oregon	29.52	749.8	30.08	764.0	48.6	9.2	94	calm	0	0		0	8 s		sw.	0.55	14.0	threatening	J. J. Nanry.
Sacramento, California	29.86	758 4	29.94	760.5	52.0	11.1	72	nw.	10	4.5		0	0			0.11	2.8	clear	J. A. Barwick
St. Louis, Missouri	29.11	739.4	29.73	755.1	53.5	11.9	93	n.	23	10.3			10 s		n.	0.61	15.5	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.36	745.7	29.39	746.5	39	3.9	100	calm	0	0			10 s		ne.	inap.	inap.	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	28.97	735.8	29.84	757.9	32.0	0.0	68	w.	4	1.8		0	0			0	0	clear	P. F Lyons.
St. Vincent, Minnesota	28.98	736.1	29.88	758.9	22	— 5.6	87	nw.	1	0.4		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25 28	642.1	29.68	753.9	55	12.8	47	se	4	1.8		3c; k	0			0	0	clear	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.73	755.1	29.80	756.9	63.0	17.2	73	se.	6	2.7		6 k	0	sw.		0	0	fair	F. R. Day.
Sanford, Florida	29.96	761.0	30.01	762.2	73.5	23.1	97	sw.	3	1.3		0	fg.			0	0	clear	J. B. Marbury.
Sandusky, Ohio	28.86	733.0	29.55	750.6	54	12.2	86	ne.	28	12.5			10 n		ne.	1.86	47.2	light rain	B. F. Hough.
Sandy Hook, New Jersey	29.75	755.6	29.78	756.4	59.0	15.0	93	s.	26	11.6			10 n		s.	0.06	1.5	light rain	B. A. Blundon.
San Francisco, California	29.90	759.4	29.97	761.2	56.0	13.3	69	n.	8	3.6		0	0			0.06	1.5	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones.
Savannah, Georgia	29.87	758.7	29.96	761.0	77.5	25.3	85	w.	8	3.6		0	fg.			0.05	1.3	clear	H. W. Ford.
Shaw, Fort, Montana	26.31	668.3	30.01	762.2	44	6.7	93	calm	0	0			10 s			0.15	3.8	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.57	751.1	29.81	757.2	77.0	25.0	82	s.	8	3.6			10 ks		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly
Sitka, Alaska	29.95	760.7	30.02	762.5	50	10.0	86	w.	4	1.8			10 ks		w.	0.51	13.0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.24	742.7	29.72	754.9	73.2	22.9	90	calm	0	0		0	4 s		w.	0	0	fair	J. B. Campbell.
Smithville North Carolina	29.83	757 7	29.87	758.7	77.2	25.1	90	sw.	14	6.3		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.78	705.6	29.80	758.4	46	7.8	77	s.	1	0.4		3 c	sk.	sw.		0.01	0.3	clear	John F. Hemenway.
Springfield, Illinois	29.05	737.9	29.74	755.4	50	10.0	90	ne.	12	5.4			10 s		ne.	1.58	40.1	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.81	681.0	29.84	757.9	65.0	18.3	78	sw.	4	1.8		3 c	0			0.28	7.1	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.97	761.2			53.0	11.7	94	n.	8	3.6			10 s		n.	0.01	0.3	cloudy	R. Connor.
Thomas, Camp, Arizona					51	10.6	32	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	28.87	733.3	29.57	751 1	51	10.6	93	n.	8	3.6			10 n		ne.	0.70	17.8	light rain	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalaskha, Alaska	29.67	753.6	29.69	754.1	40	4.4	65	w.	14	6.3			10 n		w.	0.21	5.3	light rain	Samuel Applegate.
Verde, Fort, Arizona					51	10.0	38	nw.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.63	752.6	29.89	759.2	77.5	25.3	84	s.	10	4.5			10 s		sw.	0	0	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C	29.56	750.8	29.08	753.9	62.6	17.0	96	sw.	8	3.6			10 n		sw.	0.51	13.0	light rain	T. B. Harrison.
West Las Animas, Colorado	25.95	659.1	29.88	758.9	46	7.8	93	ne.	3	1.3			10 s			0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.82	757.4	29.88	758.9	77.0	25.0	90	w.	5	2.2		hz.	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.60	726.4	29.93	760.2	37.2	2.9	95	nw.	2	0.9		5 ck	0	nw.		0.38	9.7	fair	E. H. Thompson.
Yuma, Arizona	29.48	748.8	29.63	752.6	63.5	17.5	70	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					76	24.4		nw.			2	2 cs	2 ks		n.	0.12	3.0	fair	W. H. Jackson.
Bogota, U. S. C	22.06	560.3			51.4	10.8	65	calm	0	0			48;ks		nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I			30.00	762.0	76.0	24.0	84	n.	2	0.9		6 cs	4 s	e.		0.04	1.0	cloudy	Robert Johnstone.
Paramaribo, S. A	30.01	762.2	30.01	762.2	80	26.7	82	e.			2	5 ck	4 k	e.		0.310	7.9	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C	29.46	748.3	30.02	762.5	76	24.4	89	calm			0		fg.			1.90	48.3	foggy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A					76	24.4	90	se.			1					0.56	14.2	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A	30.00	762.0	30.06	763.5	17.5	— 8.1	92	n.	21	9.4			10 n		n.	0.01	0.3	snowing	Pelissque & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 40° 37′, E. 22° 57′	29.85	758.2	80	26.7	74	s.			1		1	sse.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.94	760.5	77.5	25.3	80	wnw.			2		1	wnw.						blue sky.
H. M. S. Flamingo, N. 49° 55′, W. 55° 29′	29.51	749.5	46	7.8	100	wsw.			6		2	w.				5	w.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.98	761.5	78	25.6	86	nne.			1–3		1							blue sky.
H. P. M. S. Douro, St. Thomas, W.I.	29.98	761.5	80.6	27.0	80	sse.			1		10		sw.			3	sw.	showery.
U. S. Navy Yard, Portsmouth, N.H.*	29.87	758.7	38	3.3	90	calm	0	0			10		w.	0	0			cloudy.
U. S. S. Alliance, St. Johns, N.B.	29.91	759.7	42	5.6	91	n.			1		2		calm					clear.
U. S. S. Jamestown, N. 21° 20′, W. 41° 30′	30.15	765.8	80	26.7	100	ene.			3		8		e.			sm'h	e.	fair
U. S. S. Kearsarge, Cadiz, Spain	30.07	763.8	62	16.7	72	wnw.			4		0							clear
U. S. S. Lancaster, Cadiz, Spain			60	15.6	88	w.			3		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I.			54	12.2	74	s.			4		10					sm'h		cloudy.
U. S. S. Portsmouth, Newport, R.I.	29.91	759.7	53	11.7	100	se.			5		10		se.					cloudy.
U. S. S. Powhatan, Sydney, C. B	29.96	761.0	46	7.8	84	wsw.			1		5							fair.
U. S. S. Quinnebaug, Leghorn, Italy	29.88	758.9	68	20.0	65	wsw.			4–5		2		wsw.					fair.
U. S. S. Saratoga, N. 40° 59′. W. 73° 17′	29.85	758.2	56	13.3	94	se.			5		10		se.	light	light	sm'h	se.	overcast.
U. S. S. Swatara, Halifax, N.S.	29.96	761.0	41	5.0	82	n.			1		0			0	0	sm'h		clear.
U. S. S. Vandalia, Boston, Mass †.	29.94	760.5	48	8.9	85	se.			2		10							cloudy.
S. S. British Princess, N. 51° 15′. W. 23° 00′ †	30.46	773.7	58	14.4		w			2		10		wsw.	0	0	mod.	sw.	cloudy.
S. S. Lord Clive, N. 49° 01′. W. 35° 56′						sse.			5		3		sse.	6 h'r	6 h'r	sli't	s.	fine.
S. S. Lord Gough, N. 43° 25′, W. 60° 18′	29.90	759.4	52	11.1		n.			3		5		n.	0	0	sm'h		fair.
S. S. Ohio, Philadelphia. Pa†			57	13.9	?	se.			3		10		se.	5 h'r	5 h'r			overcast.
S. S. Nova Scotian, N. 51° 29′, W. 14° 01′	30.31	769.9	55	12.8		w.			4		8		nnw.			mod.	n.	showery.
S. S. Prussian, N. 51° 40′, W. 37° 39′	30.17	766.3	57	13.9		w.			4		6		wsw.			mod	wsw.	sprinkling.
S. S. Scandinavian, Boston, Mass	29.96	761.0	50	10.0		se.			4		10		sw.	0	0			overcast.
S. S. Jason, N. 46° 40′ W. 47° 07′			44.6	7.0		ssw.			3		7 k						nw.	gloomy.
S. S. Alvo, N. 19° 10′, W. 75° 51′*	29.96	761.0	80	26.7		ene.			4–5		4		ene.	1 h'r	1 h'r	long	ne	fine.
S. S. Avilla, Kingston, Jamaica, W.I *†	30.02	762.5	80	26.7		calm			0		6			rain	rain	sm'h		
S. S. Assyria, N. 40° 18′. W. 63° 58′	30.02	762.5	61	16.1	61	nw.			2		4		w.	0	0	sm'h		fine.
S. S. Dorian, N. 37° 20′, W. 1° 16′	29.95	760.7	72	22.2		ne.					4		ne.	0	0	sm'h		fine.
S. S. Furnessia, N. 46° 58′, W. 43° 02′†	29.82?	757.4?	65	18.3	89	s.			1		9		s.	3 h'r	3 h'r	mod.	ssw.	hazy.
S. S. Llandaff City, Swansea, Wales†	30.13	765.3	56	13.3		n.			6		8		nnw.	0	0			cloudy.
S. S. Cephalonia, N. 42° 11′, W. 51° 10′	29.83	757.7	61	16.1	94	w.			5		6		w.	1 h'r	1 h'r	mod.	e.	d. clouds.
S. S. Bothnia, N. 50° 45′, W 23° 12′	30.45	773.4	62	16.7	94	sw.			4		8		wsw.	0	0	sm'h		fair.
S. S. France, N. 46° 21′, W. 35° 13′*†	30.30	769.6	64.4	18		s.			3		4			0	0	sm'h	se.	fair.
S. S. Olinde Rodrignes, N. 33° 24′ W. 30° 15′*†	30.30	769.6	75	23.9		ese.			4		7		se.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Arizona, N. 50° 31′, W. 28° 12′	30.33	770.4	59	15.0		ssw.			4		10		sw.	0	0	mod.	sw.	overcast.
S. S. Wisconsin, N. 40° 45′, W. 69° 06′*	29.90	759.4	53	11.7		calm			0		3			0	0	sm'h		fair.
S. S. Wyoming, N. 50° 27′ W. 26° 36′	30.39	771.9	57	13.9		s.			4		9		ssw.	8 h'r	8 h'r	mod.	se.	drizzling.
S. S. Bohemia, Hamburg, Germany						wnw.			3		5		nw.	6 h'r	6 h'r			rainy.
S. S. Frisia, N. 46° 40′, W. 43° 45′						ssw.			5		6		sw.	0	0	long	sw.	hazy.
S. S. Gellert, Hamburg, Germany	29.60	751.8	54	12.2	74	wsw.			3		10		w	6 h'r	6 h'r			covered.
S. S. Silesia, N. 47° 00′, W. 43° 32′	29.75	755.6	59	15.0		sse.			6		10		nw.	0	0	long	sse.	overcast.
S. S. Westphalia, Gluckstadt, Germany	29.61	752.1	58	14.4	76	w.			4		5		w.	rain	rain			squally.
S. S. Rhaetia, N. 49° 50′, W. 7° 03′	30.27	768.8	56	13.3	94	nnw.			4		3		nnw.	1 h'r	1 h'r	mod	nne.	fair
S. S. Hevelius, Antwerp, Belgium	29.73	755.1	56	13.3		wnw.			2				nw.	6 h'r	6 h'r			raining.
S. S. Rio Grande, N. 25° 58′, W. 86° 25′†	30.03	762.7	83	28.3		se.			2		1		se.	0	0			clear.
S. S. Chalmette, Algiers, La†	29.97	761.1	78	25.6		sw.			4		3		sw.	0	0			clear.
S. S. New York, N. 25° 30′ W. 84° 30′*†	30.04	763.0	83	28.3		se.			2		3		se.	0	0	sm'h		clear.
S. S. Lone Star, N. 26° 15′, W. 85° 15′ *†	30.04	763.0	84	28.9		se.			3		2		se.	0	0	mod.	se.	clear.
S. S. Alleghany, Boston, Mass. †	29.95	760.7	48	8.9		s.			4		10		se.	0	0			threatening.
S. S. Archimede, N. 34° 06′. W. 31° 43′†	30.38	771.6	81	27.2		ese.			4		3		ese.	1 h'r	1 h'r	mod.	e.	clear.
S. S. City of Merida, N. 22° 04′, W. 87° 46′*†	30.06	763.5	86	30.0		e.			2		1		e.	0	0	light	e.	fine.
S. S. City of Washington, N. 34° 20′, W. 75° 30′*†	29.88	758.9	84	28.9		ssw.			4		0			0	0	sm'h		fine.
S. S. Cienfuegos, N. 36° —′, W. 74° 10′*	29.86	758.4	80	26.7		s.			4		4		s.	3 h'r	3 h'r	gentle	s.	fine.
S. S. Canada, N. 44° 44′, W. 47° 43′			58	14.4		calm			0		fg.			7 h'r	7 h'r	h'vy	ssw.	foggy.
S. S. Denmark, N. 42° 15′, W. 49° 45′†	29.82	757.4	63	17.2		nw.			5		6		calm	0	0	r'gh	se.	cloudy.
S. S. Egypt, N. 53° 11′, W. 4° 42′	30.08	764.0	52	11.1		nnw.			4		10		nnw.	0	0	mod.	wnw.	cloudy.
S. S. Grecian, Montreal, Canada	29.75	755.6	46	7.8	92	s.			1		10			0	0			overcast.
S. S. Erin, London, Eng			52	11.1		nw.			5		5		nw.	5 h'r	5 h'r			fair.
S. S. The Queen, N. 41° 37′, W. 57° 31′	29.85	758.2	56	13.3		nnw.			5		2		n.	0	0	sm'h		clear.
S. S. America, N. 49° 00′, W. 31° —′*	30.32	767.6	58.0	14.4	88	sw.			4		8		sw.	0	0	mod	sw.	cloudy.
S. S. Elbe, N. 49° 47′, W. 25° 44′	30.43	772.8	59.0	15.0	100	ssw.			5		10		ssw.	0	0	long	sse.	misty.
S. S. Habsburg, N. 50° 04′, W. 28° 07′	30.38	771.6				wsw.			2		10			0	0	sm'h	wsw.	foggy.
S. S. Hohenstaufen, N. 17° 29′, W. 24° 47′	30.02	762.5	79.7	26.5		ne.			4		4		ne.	0	0	mod.	ne.	fair.
S. S. Orinoco, New York, N.Y †	29.76	755.9	62	16.7		s.			5		10		s.	5 h'r	5 h'r			raining.
S. S. Main, N. 44° 19′ W. 55° 04′	29.87	758.7	55.4	13.0		nw.			6		6		nnw.	0	0	long	nw.	fair.
S. S. Oder, N. 50° 18′, W. 2° 56′	30.14	765.5	53.6	12.0		nnw.			4		3		n.	0	0	sm'h	n.	clear.
S. S. Sallier, N. 46° 35′, W. 44° 34′*	29.93	760.2	58.1	14.5		w.			4		10		wsw	2 h'r	2 h'r	mod.	se.	covered.
S. S. Strassburg, N. 41° 47′, W. 63° 24′			60.0	15.6	57	ene.			1–2		3		ene.	1½ hr	1½ hr	1	ene.	clear.
S. S. City of Augusta, Savannah, Ga						nw.			4		6		nnw.					fine.
S. S. Muriel, St. Thomas, W.I.	29.95	760.7	84	28.9		e.			3		0			0	0	sm'h		clear.
S. S. Belgenland, N. 42° 57′, W. 61° 30′			48	8.9	70	e.			2		8		ssw.	2 h'r	2 h'r	sm'h		fair.
S. S. Rhynland, N. 43° 40′ W. 58° 19′	29.92	760.0	51	10.6		n.			4		3		n.	0	0	mod.	nw.	squally.
S. S. Pennland, Jersey City, N. J.			59	15.0	88	sw.			4		10		sw.	3 h'r	3 h'r			rainy.
S. S. Switzerland, N. 50° 18′ W. 16° 14′*†	30.47	773.9				nw.			2		8		wnw.	0	0	mod.	nw.	cloudy.
S. S. Vaderland, Antwerp, Belgium			51	10.6		calm			0		10			2 h'r	2 h'r			raining.
S. S. Waesland, Antwerp, Belgium			58	14.4		w.			3		10		nw.	6 h'r	6 h'r			rainy.
S. S. P. Caland, N. 48° 05′, W. 40° 08′	30.03	762.7	65.1	18.4	88	s.			6		5		n.			5	sse.	fair.
S. S. Schiedam, N. 49° 42′. W. 12° 25′	30.23	770.4	60.1	15.6	85	nw.			6		8		wnw.	3 h'r	3 h'r	r'gh	nw.	rainy.
S. S. Zaandam, New York, N.Y	29.85	758.2	59.0	15.0	86	se.			3		3		se.	0	0			clear.
S. S. W. A. Scholten, N. 47° 19′, W. 46° 55′	29.68	753.9	53.6	12.0	94	sew.			4		10		sw.	13 h'r	13 h'r	5	se.	raining.
S. S. Valencia, Curacoa, W.I†	29.95	760.7	85	29.4	76	e.			4		3		ene.	0	0			fine.
S. S. State of Nebraska, N. 41° 10′. W. 67° 03′*†	29.96	761.0	48	8.9							0			0	0	sm'h		clear.
S. S. Thingvalla, N. 44° 16′, W. 57° 23′.			50.9	10.5		nnw.			4		2		nnw.	2 h'r	2 h'r	mod.	nw.	clear.
S. S. Romano, off Boston Light, Mass						se.			5		6		se.	0	0	sm'h		
S. S. Salerno, Hull, Eng *†	30.02	762.5	46	7.8		nw.			2		10?		w.	0.1	3.			clear?
S. S. Oregon, N. 52° 23′, W. 53° 18′	29.33	745.0	40	4.4		w.			5		8		w.			long	n.	cloudy.
S. S. Quebec, N. 50° 46′, W. 58° 13′	29.63	752.6	42	5.6		w.			4		0			16 h'r	16 h'r	mod.	w.	clear.
S. S. Texas, Quebec, Canada			46	7.8	77	s.			3				s.	0	0	sm'h		cloudy.
S. S. Olbers, N. 4° 30′, W. 43° 15′	30.06	763.5	82	27.8	91	se.			3		6		se.	0	0	sm'h		fair.
S. S. Daniel Steinmann, N. 50° 44′ W. 21° 17′†	30.48	774.2	61	16.1		wsw.			3		9		calm	0	0	light	n.	cloudy.
S. S. Adriatic, Mersey river, Eng*†	30.04	763.0	69	20.6		n.			4				n.			mod.	nw.	overcast.
S. S. Celtic, New York, N.Y†	29.81	757.2	55	12.8		se.			4		10		se.	2 h'r	2 h'r			raining.
S. S. Germanic, N. 48° 38′, W. 40° 12′*†	30.03	762.7	64	17.8		sse.			6		5		ssw.	0	0	r'gh	sse.	hazy.
S. S. Republic, N. 46° 56′, W. 39° 45′ *†	30.03	764.0	66	18.9		sw.			6		3		sw.	7 h'r	7 h'r	h'vy	sw.	d. clouds.
S. S. Assyrian Monarch, N. 48° 04′, W. 25° 08′	30.53	775.4				ssw.			5		fg.			0	0	mod.	ssw.	foggy.
Bk. Arda, N. 35° 48′, W. 20° 30′†	30.41	772.4				ne.			4		6?		ne.	0	0	mod.	ne.	clear?
Bg. Alpheus Marshall, N. 11° 29′, W. 23° 54′*†	29.93	760.2	83	28.3	96	ne.			4		3		ese.	0	0	mod.	ne.	clear.
Bk. Ariadne, N. 46° 28′, W. 47° 07′	29.71	754.6	57	13.9	100	se.			2		fg.			12 h'r	12 h'r	h'vy	sse.	raining.
Bg. Abbie Clifford, N. 38° 35′, W. 67° 35′†	29.88	758.9	62	16.7		e.			1		2		s.	0	0	small	ne.	
Schr. Arthur Burton, Gay Head, Mass †	29.93	760.2				s.			5		8		s.	0	0	sm'h	ne.	threatening.
Schr. Abbie H. Gheen, N. 39° 52′, W. 73° 00′†	29.86	758.4	63	17.2		se.			7									stormy.
S. S. Antonio Lopez, Santander, Spain *	30.17	766.3	53.5	11.9	86	wnw.			4		9			6 h'r	6 h'r	mod.	wnw.	squally.
Schr. Adda Doane, N. 30° 41′, W. 66° 36′*†	30.04	763.0				ssw.			2		3		w.	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Bk. Adelaide, N. 6° 30′, W. 29° 58′*†	30.06	763.5	81	27.2		ne.			1		10		ene.	4 h'r	4 h'r	long	s.	raining.
Bg. Belle of the Bay, Galveston, Texas †	29.87	758.7				ssw.			5		6		ssw.	0	0			threatening.
Bk. Ceylon, N. 22° 45′, W. 39° 18′†	30.15	765.8	83	28.3	83	e.			4		6		ese.	½ h'r	½ h'r	mod.	e.	fair.
Schr. C. R. Flint, N. 13° 56′, W. 56° 04′ †	29.99	761.7	86	30.0		e.			2		4		ese.	0	0	sm'h	ese.	fair.
Bk. Don Justo, N. 43° 20′, W. 62° 30′			50	10.0		ne.			1		0			1 h'r	1 h'r	mod.	ne.	clear
S. S. D. J. Foley, N. 33° 29′, W. 74° 00′ *†	29.96	761.0	80	26.7	87	ssw.			2		3		sw.	0	0	sm'h		clear.
Bkt. David A. Preston, N. 41° 03′, W. 72° 30′†	29.92	760.0				se.			6		10		se.	0	0	sm'h		stormy.
Bk. Diamant, N. 44° 05′, W. 41° 34′	30.06	763.4	68.9	20.5	99	sse.			8		9		ssw.	2 h'r	2 h'r	6	se.	cloudy.
S. Dynomene, N. 27° 50′, W. 21° 10′	30.23	767.8	75	23.9	81	ene.			5		7			light	light	mod.	nne.	misty.
S. David Stewart, N. 33° 24′, W. 71° 09′†	29.94	760.5	87	30.6		ssw.			5		5		sw.			mod.	wsw.	fair.
S. E. J. Spicer, N. 49° 08′, W. 8° 23′	30.31	769.9	54	12.2	87	nnw.			6		10		nnw.	rain	rain	mod.	nnw	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	29.91	759.7	85	29.4		s.			2		3		s.	0	0			fine.
U. S. Fish Com. S. S Fish Hawk, Woods Holl, Mass†	29.98	761.5	53	11.7	86	sse.			3		10		se.	0	0			cloudy.
S. Gatherer, N. 39° 41′, W. 33° 40′*	30.35	770.9	74	23.3	82	sse.			7		6?		se.	0	0	chop	sse.	clear.?
Bg. George, N. 22° 58′, W. 68° 50′*†	30.05	763.3	80	26.7		e.			3		8			0	0	mod.	e.	clearing.
Bk. Galeon, N. 23° 13′, W. 33° 17′†	30.16	766.1	79	26.1		e.			4		2		e.	0	0	sm'h	ne.	blue sky.
Bk. Grey Eagle, N. 5° 22′, W. 27° 50′						calm			0		2			2 h'r	2 h'r	short	se.	fair.
Bk. Hattie G. McFarland, New York, N.Y.†	29.80	756.9	65	18.3		ene.			4		10		se	8 h'r	8 h'r			stormy.
S. Hedwig, N 21° 25′, W. 34° 28′	30.20	767 1	82.2	27.9	81	e.			3		3		e.	½ h'r	½ h'r	3	ne	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	30.03	762.7				sw.			2		0			0	0			clear.
Bk. Ibis, N. 31° 40′, W. 79° 45′*	29.96	761.0	81	27.2		sw.			4		2		nw.	0	0	sm'h	sw.	clear.
Schr. Jennie N. Huddell, Wilmington, N.C.†	29.91	759.7	95	35.0		s.			1		0			0	0			clear.
Bk. John H. Pearson, N. 36° 31′, W. 2° 25′						baff			1				ne.	0	0	r'gh	sw.	clear.
Schr. Jas Slater, N. 21° 22′, W. 59° 03′†	30.07	763.8				ne.			2		2		e.	0	0	light	ne.	
Bg. Josefa, N. 45° 32′, W. 53° 20′†	29.73	755.1				nw.			7		8		nw.	1 h'r	1 h'r	r'gh	nw.	cloudy.
Bkt. Kryolith, N. 43° 53′, W. 61° 47′*†	29.90	759.4				nw.			3					0	0	mod.		clear.
Bk. Lady Hincks, N. 24° 40′, W. 51° 36′ *†	30.10	764.5												shr's	sh'rs			squally.
Bg. Lilian, N. 10° 00′, W. 58° 30′ †	30.02	762.5	84	28.9		e.			2		8		e.	0	0	mod.	e.	squally.
Bg. L. & W. Armstrong, N. 32° 19′, W. 70° 30′ *†	29.98	761.5				calm			0		1		s.	0	0	sm'h	nnw.	hazy.
S. S. Madrid, Taganrog, Russia †	29.80	756.9	69	20.6	85	sw.			1		4		sw.	0	0			fair.
Bk. Matilda C. Smith, N. 40° 00′, W. 54° 50′*†	29.95	760.7				nw.			4		4		nw.	4 h'r	4 h'r	r'gh	var.	clearing.
Bk. Matthias, N. 38° 11′, W. 71° 49′ *†	29.94	760.5	64	17.8		se.			6		10		sse.	0	0	2–4	e.	
Bk. National Eagle, N. 40° 42′, E. 18° 40′						w.			3		8		sw.	0	0	rg'h	s.	cloudy.
Bk. Orpheus, N. 40° 04′, W. 65° 51′	30.00	762.0	66	18.9		calm			0	cs	0	sw.		0	0	sm'h		fair.
S. S. Radnorshire, N. 49° 13′, W. 4° 19′						nnw.			7		8		nnw.	sq 'lls	sq'lls	r'gh	nnw.	threatening.
Schr. Rollin Sanford, Milton, Floridaf	29.96	761.0				wsw.			2		5		wsw.	0	0			fair.
Bg. Rising Sun, N. 33° 35′, W. 63° 37′ †	30.03	762.7	80	26.7		sw.			3		1		sw.	0	0	mod.	sw.	clear.
Bk. Rosalie, N. 28° 56′, W. 19° 39′*†	30.23	767.8				e.			6		3		ese.	½ h'r	½ h'r	light	ne.	clear.
Bk. Saga, Elsinore, Denmark *†	29.47	748.5	55	12.8		nne.			2		10		nne.	rain	rain	sm'h		rain & fog.
S. Salisbury, N. 40° 03′, W. 51° 00′	29.81	757.2	76.1	24.5	86	nnw.			6		4 k		nnw.	0	0	cross	var.	fair.
Bgt. Sunlight, N. 32° 55′, W. 72° 50′ †	29.97	761.2				sw.			2		1			0	0	short	nw.	hazy.
Bk. Samuel B. Hale, N. 34° 30′, W. 50° 15′*†	30.10	764.5				nw.			4				nw.	0	0	short	e.	clear.
Bk. Sunbeam, N. 40° 35′, W. 53° 34′ †	29.89	759.2	70	21.1	80	n.			6		8		n.	1 h'r	1 h'r	cross	var.	cloudy.
Bk. Scud, N. 24° 47′, W. 57° 05′ *†	30.07	763.8	84	28.9		wsw.			3		2		n.	0	0	mod.	n.	fine.
Bk. St. Lawrence, N. 16° 50′, W. 56° 49′ *†	29.98	761.5				ese.			4				sse.			light	se.	fine.
S. S. Tower Hill, N. 43° 51′, W. 54° 48′						nw.			6		5?		w.			high	w.	cloudy.?
Schr. Viola Reppard, N. 33° 12′, W. 77° 00′			82	27.8		nw.			4		6		nw.			sm'h		fair.
Schr. Walter L. Plummer, Tenerife, Canary Ids. *†	30.20	767.1				ne.			3		5		ne.					fair.
S. S. Maasdam, N. 49° 39′, W. 3° 10′	30.11	764.8	58	14.4		nw.			4							sm'h		clear.
Bk. Childwall, N. 6° 39′, W. 21° 41′*	29.88	758.9	77	25.0		sw.			5		7		sw.	0	0	light	sw.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.07	763.8	76.5	24.7	86	s.			1		3		s.					blue sky.
H. M. S. Boadicea, off Simon's Bay, Cape Colony	30.16	766.1	63	17.2	83	s.			1		2		sw.			1	s.	blue sky.
H. M. S. Opal, Ascension Island, Africa	30.05	763.3	78	25.6	82	se.			3		4		ese.					d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	30.13	765.3	56	13.3	81	ne.			2		7							foggy.
H. M. S. Tyne, S. 3° 50′, W. 14° 35′	30.06	763.5	75	23.9	77	se.			3		9					3	sse.	misty.
H. P. M. S. Benge, Mossamedes, Benguela	30.00	762.1	72.5	22.5	76	wnw.			3		8		wnw.	1 h'r	1 h'r	2		d. clouds.
U. S. S. Brooklyn, S. 38° 19′, W. 48° 14′*	29.99	761.7	61	16.1	87	wsw.	8	3.6			8		wsw.	0	0	mod	wsw.	fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.10	764.5	56	13.3	94	ene.			1		2		e.			sm'h		fair.
S. S. Sirius, S. 6° 33′, W. 33° 39′	30.05	763.3				se.			4		3		se.	0	0	long	se.	clear.
Bk. Aureola, S. 8° 06′, W. 34° 45′ †	29.98	761.5	94	34.4		se.			2		3		se.	0	0	mod.	se.	clear.
Bk. E. L. Pettingill, S. 33° 38′, W. 46° 19′*†	30.20	767.1	65	18.3		s.			2		7		ssw.	12 h'r	12 h'r	sm'h	s.	cloudy.
Bg. John Wesley, Natal, Brazil*†	29.98	761.5	80	26.7		sse.			4		3		sse.	0	0			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.13	765.3				ene			1		2			0	0			clear.
S. S. Menadoza, S. 35° 36′, W. 47° 39′ †	30.10	764.5				ssw.			1		2		ssw.	0	0	r'gh	ne.	
Bk. Mohican, S. 28 35′, W. 25° 45′	30.09	764.3	70.5	21.4		ese.			3		2		ese.	1½h'r	1½h'r	long	ssw.	fair.
Bk. Pilgrim, S. 21° 00′, W. 1° 00′ *†	30.20	767.1				e.			3		7		e.	0	0	mod.	ese.	cloudy.
Bgt. Willie, S. 25° 55′, W. 43° 25′*†	30.08	764.0	80	26.7		ne.			4		8		ne.	0	0	mod.	ne.	cloudy.
Bk. Achille F, S. 29° 30′, W. 41° 30′ †	30.13	765.3	70	21.1		nne.			4		5		nnw.	0	0	mod.	ne.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 35° 00′, E. 140° 15′	30.00	762.0	71?	21.7?	95	nnw.			3		2		nw.			2	ne.	blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.87	758.7	82	27.8	91	s.			1		8							d. clouds.
H. M. S. Cleapatra, N. 28° 30′, E. 122° 30′			73	22.8	76	nne.			3		4					3	nne.	d. clouds.
H. M. S. Flying Fish, Che Foo, China	30.02	762.5	68	20.0	60	ssw.			3		0					1	sw.	blue sky.
H. M. S. Magpie, N. 5° 07′, E. 114° 48′	29.86	758.4	79.5	26.4	91	wsw.			3		0					4	nw.	blue sky
H. M. S. Zephyr, N. 32° 44′, E. 129° 49′	30.00	762.0	70	21.1		nw.			1		2	e.						blue sky.
H. P. M. S. Tamega, Canton, China	29.95	760.8	79.7	26.5	84	se.			2		10			1 h'r	1 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.11	764.8	62.5	16.9	91	calm			0		0			light	light			clear.
U. S. S. Essex, N. 33° 33′, E. 127° 00′	30.05	763.3	69	20.6	67	ene.			3		2					sm'h		clear.
U. S. S. Hartford, Punta Arenas, Costa Rica*	29.80	756.9	77	25.0	95	ne.			1		2			0	0			clear.
U. S. S. Juniata, N. 14° 48′, E. 113° 35′	29.79	756.7	75	23.9	100	ese.			5		5		se.	h'vy	h'vy	r'gh	se.	fair.
U. S. S. Monocacy, Roze Island, Corea	30.13	765.3	63	17.2	67	nnw.			1		0							clear.
U. S. S. Pensacola, N. 28° 30′, E. 147° 15′ *	29.97	761.2	79	26.1	91	ese.			3		2		ese.	0	0	mod.	ese.	clear.
U. S. S. Ranger, Mare Island, Cal	29.99	761.7	55	12.8	81	wnw.			2		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.06	763.5	66	18.9	95	n.			2		0			2.20	55.9			clear.
S. S. Oceanic, N 39° 20′, W. 142° 00′	30.48	774.2	64	17.8	78	sw.			4		6			0	0	3	sw.	fair.
S. S. City of Chester, San Francisco, Calf	29.98	761.5	56	13.3	69	nw.			2									clear.
S. S. Oregon, San Francisco, Cal.†	29.94	760.5	55	12.8	100	nnw.			2									clear.
S. S. Dakota, N. 43° 45′, W. 124° 53′†	30.13	765.3	58	14.4	80	nnw.			4		0			0	0	mod.	nw.	foggy.
S. S. Orizaba, N. 34° 08′, W. 119° 12′ *†	29.80	756.9	65	18.3	68	sw.			6					0	0	long	sw.	light haze.
S. S. State of California, N. 45° 41′, W. 124° 10′ †	30.11	764.8	55	12.8	87	nnw.			3		5		w.			mod.	w.	fair.
S. S. Queen of the Pacific, Portland, Oregon †	30.05	763.3	54	12.2	94	se.			1		7			10 h'r	10 h'r			overcast.
S. S. City of New York, N. 17° 43′, W. 159° 20′ †	30.03	762.7	79	26.1	78	e.			5		5?		e.	0	0	mod.	e.	cloudy.?
S. S. City of Pekin, Hong Kong, China †	29.96	761.0	76	24.4	82	ne.			5		10		e.	0	0			overcast.
S. S. City of Tokio, N. 34° 55′ E. 138° 24′			75	23.9	72	ne.			6		8		ne.	0	0	small	ne.	cloudy.
S. S. City of Rio de Janeiro, N. 37° 40′, W. 178° 15′†	30.35	770.9	64	17.8	67	n.			5		2		nne.	0	0	mod.	n.	clear.
S. S. Colima, N. 35° 15′, W. 121° 39†	29.96	761.0	58	14.4	76	nnw.			5		5		nw.	0	0	r'gh	nw.	fair.
S. S. Grenada, N. 7° 15′, W 80° 15′ †	29.92	760.0	78	25.6	91	wsw.			1		10		se.	2 h'r	2 h'r	mod.	sw.	
S. S. San Blas, N. 8° 08′, W. 83° 50′†	29.84	757.9	82	27.8		baff			3		10		se.	rain	rain	mod.	s.	squally.
S. E. B. Sutton, N. 11° 00′, W. 119° 30′*†	29.91	759.7	80	26.7	91	nnw.			2		8		nw.	4 h'r	4 h'r	r'gh	var.	cloudy.
S. S. Strathleven, N. 33° 34′, E. 129° 38′	30.04	763.0	73.5	23.1	68	nne.			5		0			0	0	3	ne.	blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Storm King N. 7° 37′, W. 115° 25′*†	29.94	760.5	.....	.....	.....	s.	.....	.....	6	.....	6?	.....	s.	2 h'r	2 h'r	r'gh	var.	overcast.?
U. S. S. Palos, Canton, China	29.97	761.2	78	25.6	86	ene.	.....	.....	1	.....	10	.....	ene.	.....	.....	.....	.....	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 42′, E. 156° 24′	29.95	760.7	78.3	25.7	91	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Mutine, S. 6° 30′, W. 81° 00	30.03	762.7	64	17.8	.....	se.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Nelson, Sydney, N. S. W	29.49	749.0	57	13.9	82	n.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast
U. S. S. Iroquois, Callao, Peru	30.06	763.5	62	16.7	88	se.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, S. 29° 35′, W. 72° 04′*	29.94	760.5	55	12.8	93	s.	.....	.....	4	.....	10	.....	.....	.....	.....	mod.	s.	overcast.
U. S. S. Onward. Callao, Peru *†	30.12	765.0	61	16.1	88	se.	.....	.....	1	.....	10	.....	s.	.....	.....	sm'h	.....	cloudy.
U. S. S. Wachusetts, S. 21° 16′, W. 71° 09′*	30.04	763.0	63	17.2	94	e.	.....	.....	1	.....	10	.....	e.	.....	.....	sm'h	.....	overcast.
S. S. Australia, Sydney, N. S W	29.91	759.7	60	15.6	88	nnw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Sydney, Sydney. N S. W*†	30.27	768.8	61	16.1	77	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
Bk. Godeffroy, S. 54° 45′, W. 80° 17′	29.82	757.4	41.4	5.2	94	wnw.	.....	.....	5	.....	9	.....	wnw.	rain	rain	mod.	var.	rainy
S. Sovereign of the Seas, S. 17° 46′, W. 91° 52′*†	30.14	765.5	65	18.3	89	nw.	.....	.....	1	.....	8	.....	.....	0	0	h'vy	sw.	cloudy.
S. David Crocket, S 56° 31′, W. 78° 53′*	29.81	757.*	43	6.1	96	n.	.....	.....	5	.....	9	.....	nw.	0	0	sm'h	nw.	gloomy.
S. Armenia, S. 3° 20′, W. 124° 10′*	29.86	758.4	76	24.4	91	ese.	.....	.....	4	.....	5?	.....	ese.	0	0	mod.	var.	cloudy.?
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.04	763.0	66	18.9	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	mod.	sse.	overcast.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.98	761.5	80	26.7	82	s.	.....	.....	3	.....	6	ese.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	80	26.7	91	sse.	.....	.....	4	.....	3	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab, Turkey	29.93	760.2	91.5	33.1	53	nw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Benledi, N. 28° 30′, E. 33° —*	29.81	757.2	83.5	28.6	64	nnw.	.....	.....	4–5	.....	0	.....	.....	0	0	mod.	nnw.	hazy.
Bk. Bore, S. 26° 23′ E. 46° 46′*†	30.61	777.5	77	25.0	.....	sse.	.....	.....	4	.....	5	.....	sse.	1 h'r	1 h'r	r'gh	sse.	fair.
S. Frank N. Thayer, S. 22° 06′, E. 61° 52′*†	30.16	766.1	73.5	23.1	76	ene.	.....	.....	4	.....	1	.....	ene.	0	0	mod.	e.	blue sky.
Bk. Great Surgeon, S. 39° 45′, E. 33° 20′ *†	29.92	760.0	59	15.0	.....	n.	.....	.....	7	.....	10	.....	n.	1 h'r	1 h'r	h'vy	n.	threatening.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 3, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Clouds. Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours			30.06	763.6	79.2	26.2	67	ne.			1		7			0.276	7.0	very cloudy	Roziere.
Algiers			29.97	761.2	67.3	19.6	69	nw.			4		0			0.028	0.7	clear	Thève.
La Calle			29.92	760.0	68.7	20.4	80	nnw.			4		5			0.039	1.0	cloudy	Fonfrède.
Tunis			29.99	761.8	70.5	21.4	72	n.			2		4			0.157	4.0	cloudy	Delord.
Saida			30.06	763.6															Pérès.
Tebessa			30.01	762.2	68.0	20.0	64	n.			3		4			0.205	5.2	cloudy	St. Martin.
Geriville					57.2	14.0	47	n.			2		3			0.035	0.9	pretty fair	Forfert.
Laghouat			30.01	762.2	72.7	22.6	25	n.			4		2			0	0	fair	Abraham.
Biskra			29.98	761.6	84.2	29.0	32	se.			2		0			0	0	clear	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			20.88	758.9	59.5	15.3	83	sw	9	4.0			10			0	0	overcast	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.72	754.9	29.81	757.1	68.0	20.0	50	nw.	14	6.3			10			0	0	squally	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.35	745 6	29.90	759.4	57.6	14.2	69	ne.			1		8			0.701	17.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.08	738.5	29.84	757.9	53.6	12.0	65	w.	8.1	3.6			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.00	736.6	29.87	758.6	58.6	14.8	71	s.			2		9 ks		n.	0.063	1.6		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.53	724.7	29.93	760.3	61.7	16.5	69	nw.			2		10			0.106	2.7		Prof. A. Gottschling.
Kremsmunster, Obs'y	28 54	725.0	29.88	758.9	53.6	12.0	62	w.			2		3			0	0	fair	The Staff.
Lemberg	28.88	733.6	29.85	758.2	58.5	14.7	60	sw.			3		3			0.008	0.2		Dr. T. Stanecki.
Pola	29.75	755.6	29.86	758.4	65.3	18.5	70	ese.			4		8			0.118	3.0		I. R. Hydrographic Office.
Szathmar	29.45	748.0	29.91	759.6	60.8	16.0	67	w.			3		4			0.433	11.0		Joseph Midlinszky, S. J
Szegedin	29.61	752.2	29.89	759.3	58.6	14.8	80	s.			1		10			0	0		Karl St[illegible]cel.
Trieste	29.81	757.1	29.91	759.6	61.5	16.4	60	n.			2		9			0.976	24.8		Royal Academy.
Vienna	29.20	741.7	29.91	759.7	57.2	14.0	47	w.			3		8			0	0		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.48	748.8	29.58	751.3	46.6	8.1	70	n.	10	4.5			5			0.015	0.4	blue sky	W. Boswell.
Armagh, Observatory	29.41	747.0	29.65	753.1	46.0	7.8	84	nw.	8	3.6			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.51	749.5	46.1	7.8	84	wnw.	25	11.2			10					raining	John Hartnup.
Bolton, Sharples	28.96	735.6	29.49	749.0	44.8	7.1	92	nw.	1	0.4			9					raining	Thomas Mackereth.
Bradford, Yorkshire	29.08	738.6	29.47	748.5	47.5	8.6	80	nw.			1		7			0.20	5.1	raining	McLandsborough&Preston
Cardington	29.41	747.0	29.52	749.8	50.0	10.0	84	w.			0.6		10					overcast	John McLaren.
Chatham, School M. E.	29.43	747.5	29.60	751.8	49.6	9.8	84	sw.			1		10					drizzling	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.52	749.8	29.75	755.6	54.6	12.6	90	w.			6		10					raining	The Staff.
Fort Napier, Natal	27.87	707.9	30.09	764.3	74.0	23.3	43	e.			2		5					d. clouds	C. Stares, A.H.C.
Freetown, Sierra Leone	29.67	753.6	29.90	759.4	82.0	27.8	91	se.			5		6					raining	J. W. Smith.
Galway, Queen's College	29.71	754.6	29.75	755.6	47	8.3	85	w.			2		10			0.08	2.0	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	71.0	21.7	85	nw.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.36	745.7	29.56	750.8	50.3	10.2	68	nne.			3		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.40	746.7	29.57	751.1	48.8	9.3	89	sw.			3		10					raining	The Staff.
Guernsey	29.46	748.3	29.75	755 6	53.0	11.7	97	w.			6		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.53	750.0	29.57	751.1	48.6	9.2	89	wsw.	12	5.4			10					raining	The Staff.
Leicester, Museum	29.24	742.7	29.50	749.3	46.8	8.2	90	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.97	761.2	75.0	23.9	88	sw.			3		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.13	765 3	81.5	27.5	74	e.			1		5					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.00	736.6	29.53	750.0	45.2	7.3	92	ssw.			3		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.33	745.0	29.56	750.8	47.3	8.5	96	wsw.			4		10					raining	The Staff.
Plymouth	29.60	751.8	29.68	753.9	55.0	12.8	85	w.			6		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.56	750.8	29.66	753.4	46.1	7.8	82						5					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.88	758.9	29.94	760.5	81.8	27.7	57	ne.			1		10					misty	W. H. Lyne.
Sheffield	29.19	741.4	29.47	748.5	50.1	10.1	86	nw.			3		6			0.58	14.7	d. clouds	W. F. Cooper.
Silloth Rectory	29.48	748.8	29.51	749.5	53.7	12.1	67	n.			2		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.50	749.3	47.0	8.3	79	wsw.	6	2.7			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					48.3	9.1	96	sw.			0.5		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.68	753.9	29.76	755.9	56	13.3	87	nw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.84	757.9	29.87	758.7	48.7	9.3	91	n.	21	9.4			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.04	763.0	74.5	23.6	78	sw.	5.0	2.2			10 n		sw.	0	0	hazy	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	29.78	756.4	29.82	757.4	38.0	3.3		calm	0	0			10 n			0.020	0.5	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.68	753.9	29.72	754.9	49	9.4	87	n.	12	5.4		0	8 n		n.	0.760	19.3	clearing	H. J. Cundall, C. E.
Chatham, N. B*	29.74	755.4	29.80	756.9	34	1.1	100	nw.	3	1.3			fg			0.15	3.8	dense fog	G. A. Blair.
Cornwall, Ontario	29.55	750.6	29.75	755.6	43.3	6.3	95	sw.			1	2 cs	4 s			0.286	7.3		Jas. Smith, M. A.
Dalhousie, N. B.	29.74	755.4	29.79	756.7	39.0	3.9		n			1	0	7 s			0	0	d. clouds	H. A. Johnson.
Edmonton, N. W. T *	27.70	703.6			30	−1.1	57	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.69	754.1	29.71	754.6	43	6.1	83	sw.	12	5.4			8 k		sw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.35	745.5	30.24	768.1	23	−5.0	92	s.	4	1.8		8 k	0	nw.		0	0	fair	James Stewart.
Fredericton, N. B.	29.78	756.4	29.84	757.9	37.0	2.8	90	n.	4	1.8			10 s			0.340	8.6	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	29.79	756.7	29.84	757.9	40	4.4	92	n.	12	5.4			10 s		n.	0.62	15.7	cloudy	J. Chipman Seeley
Granton, Ontario	28.88	733 5	30.01	762.2	37.0	2.8	100	w.	2	0.9		0	0			0.09	2.3	blue sky	Jas. Grant.
Halifax, N. S*	29.54	750.3	29.67	753.6	49	9.4	93	n.	9	4.0			10 k			1.110	28.2	cloudy	A. Allison.
Hamilton, Ontario	29.55	750.6	29.94	760.5	48.7	9.3	89	nw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.52	749.8	29.85	758.2	49	9.4	71	w.	7	3.1		0	0			0.62	15.7	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	29.48	748.8	29.52	749.8	54.5	12.5	97	s.			3		10 n			1.75	44.4		C. H. Rigby.
London, Ontario	29.10	739.1	29.96	761.0	38.5	3.6	93	calm			0	0	0			0.090	2.3	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.71	703 8	30.10	764.4	25	−3.9	73	calm	0	0		0	0			0	0	smoky	John Ewart.
Minnedosa, N. W. T	28.16	715.3	30.15	765.8	25	−3.9	84	w.	10	4.5		0	8 ks		w.	0	0	smoky	Rev. J. M. Wellwood.
Montreal, Quebec*	29.58	751.3	29.79	756.7	41	5.0	89	sw.	8	3.6		0	8 ks		w:	0.25	6.3	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.55	750.6	29.78	756.4	40.1	4.5	99	sw.					10 s			0	0	foggy	A. McGill, M. A.
Parry Sound, Ontario*	29.17	740.9	29.88	758.9	36	2.2	89	nw.	7	3.1		2 k	0	nw.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.11	739.4	29.85	758.2	44.7	7.1	61	nw.			2	0	0			inap.	inap.	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.43	747.5	30.10	760.1	36	2.2	72	w.	7	3.1		5 cs	5 ks	w.		0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.27	743.4	29.97	761.2	45	7.2	88	w.	9	4.0		0	0			0.30	7.6	clear	[illegible] Morgan
Port Stanley, Ontario	29.33	745.0	29.99	761.7	42	5.6	80	w.	10	4.5		0	0			0.18	4.6	clear	[illegible] Payne.
Qu Appelle, N. W. T	27.75	704 8	30.09	764.3	31	−0.6	52	sw.	8	3.6		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.42	747.3	29.78	756.4	42	5.6	100	s.	6	2.7			10 ks		sw.	0.10	2.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.32	744.7	29.79	756.7	38	3.3	79	w.	6	2.7			10 s		w.	0	0	cloudy	W. H. McInnes.
St. Andrews, N. B.	29.72	754.9	29.77	756.1	38	3.3	90	ne.	11	4.9			10 n			0.77	19.6	cloudy	
St. John, N. B	29.66	753.4	29.81	757.2	40.6	4.8	94	nw.	12	5.4			10 n			0	0	foggy	G. Hutchinson.
Saint John's, N. F	29.70	751.4	30.04	763.0	47	8.3	100	s.			2		10 s			0	0	cloudy	J. Higgins.
St. Pierre, N. F			29.76	756.0	50.0	10.0		se.			5					1.189	30.2		The Commandant.
Saugeen, Ontario*	29.19	741.4	29.91	759.7	42	5.6	83	w.	22	9.8		5 k	0	n.		0	0	fair	
Stratford, Ontario	28.74	730.0	29.99	761.7	36.4	2.4	95	w.	2.0	0.9		0	0			0.076	1.9	blue sky	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrument, error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
S. W. Point, Anticosti	29.75	755.6	29.78	756.4	42	5.6	89	se.			2	5 ck	0	w.		0	0	fair	Miss Grace Pope.
Sydney, C. B.	29.48	748.8	29.54	750.3	51	10.6	96	n.	15	6.7			10 n			1.63	41.4	cloudy	A. C. Hill, C. E.
Toronto, Ontario*	29.55	750.6	29.94	760.5	43	6.1	83	w.	10	4.5		0	0			0.19	4.8	clear	Magnetic Observatory.
Woodstock, Ontario	28.92	734.6	30.02	762.5	37.4	3.0	89	nw.	8	3.6		0	0			0.22	5.6	blue sky	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.73	755.1	29.80	756.9	45	7.2	96	nw.	12	5.4			10 k		n.	1.26	32.0	cloudy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.24	768.1	30.27	768.8	64.0	17.8	92	ne.	12.8	5.7		0	5 k			0	0	dull	I. Garfelt.
Springbo' Fontein	27.87	707.9			69	20.6	36									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.95	760.7	30.03	762.7	57.6	14.2	91	e.			1	0	0					clear	Samuel Redolez.
Iquique	29.98	761.6	30.01	762.3	63.3	17.4	73	sw.			3							cloudy	Rafael Moreno.
Niebla	29.61	752.1	29.72	754.8	44.6	7.0	85	e.			1	1 c	0	e.		0.579	14.6		Federico Kühling.
Punta Caldera	29.98	761.5	30.07	763.7	55.4	13.0	88	se.			2	0	8 s		sw.			cloudy	Manuel Tobar.
Punta Corona	29.88	759.0	30.07	763.8				se.			5	0	6 s		se	0	0	fair	Francisco Alvarado.
Valparaiso	29.84	758.0	29.98	761.6	57.2	14.0	91	n.			1	10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.34	643.6																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.08	764.0	30.10	764.6	61.9	16.6	81	nne.	0.7	0.3			0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.51	749.6	29.56	750.8	52.2	11.2	86	nw.	7	3			10						Oversergent Fischer.
Fanoe	29.53	750.1	29.55	750.6	52.2	11.2	81	s.			4		8						Overloerer Lauridsen.
Godthaab, Greenland	29.06	738.1	29.10	739.2	45.9	7.7	60	calm			0		4						S. Kleinschmidt.
Jacobshavn, Greenland	29.23	742.5	29.28	743.7	41.4	5.2		e.			4		8					raining	
Stykkisholm, Iceland	29.88	759.0	29.93	760.1	42.1	5.6	74	e.			6		0						A. O. Thorlacius.
Thorshavn	29.84	758.0	29.87	758.6	46.2	7.9	82	ne.	9	4			7						Overloerer Bergh.
Vestervig	29.47	748.6	29.56	750.9	49.8	9.9	79	ese.			2		8						Loerer Oesterhol.
Egyptian.																			
Cairo	29.78	756.5			88.2	31.2		ne.	10.5	4.7			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.56	750.8	30.21	767.2	56.7	13.7	96	wsw.			1		10			0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.40	746.8	29.95	760.8	47.5	8.6	97	se.			1		5		nw.	0.008	0.2	cloudy	M. Nicot, Director.
Avignon, Normal School	29.93	760.3	30.01	762.3	61.5	16.4	47	nnw.			1		5		w.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.37	746.0	29.93	760.1	53.1	11.7	63	sw.			2		8 kn		sw.	0.217	5.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.49	749.0	29.75	755.7	52.5	11.4	85	wsw.			4		10		wsw.	0.028	0.7	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.0	29.95	760.6	46.9	8.3	92	s.			2		2		ne.	0.02	0.5	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.9	30.10	764.6	56.8	13.8	85	w.			1		10			0.004	0.1	covered	M. Rayet, Director.
Bourges, Normal School	29.47	748.6	30.07	763.7	53.6	12	76	wsw.			6		kn		wsw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.72	755.0	29.97	761.2	56.8	13.8	88	w.			4		10		w.	0.031	0.8		M. de Kermarée, Dir.
Caen, Normal School	29.71	754.7	29.78	756.5	55.0	12.8	81	sw.			2					0.16	4.		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.51	749.6	29.83	757.7	51.4	10.8	76	ssw.			6		5		w.	0.043	1.1	cloudy	M. Jadot, Director.
Charleville, Normal School	29.28	743.7	29.80	756.9	46.0	7.8	94	wsw.			4		10					raining	M. Noel, Director.
Clermont-Ferrand Obs'y	28.68	728.5	30.04	763.0	54.3	12.4	50	w.			2		8			0	0		M. Allnard, Director.
Cluny, Normal School	29.18	741.1	30.05	763.3	54.9	12.7	47	sw.			2				sw.	0.205	5.2		M. de Villemontée, Dir.
Commercy, Normal School	29.03	737.3	29.88	758.9	52.2	11.2	72	w.			4		5 n	w.	w.	0.283	7.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.39	695.7	29.92	759.9	54.5	12.5	54	sw.			1		1 n	n.		0	0		M. Jarach, Director.
Gréasque, du Rhone	28.79	731.2	29.91	759.6	57.0	13.9	37	nw.			8		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.2	29.91	759.8	57.9	14.4	34	nw.			1		kn		wnw.	0.04	1.		M. Ablard, Directoor.
Guéret, Normal School	28.33	719.6	29.92	759.9	47.3	8.5	86	sw.			1		n		sw.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.67	753.5	29.94	760.5	53.2	11.8	83	w.			2		10		w.	0.28	7.	covered	M. Ollitrault, Director
Lescar, Normal School	29.59	751.6	30.16	766.0	58.1	14.5	74	w.			1		10			0.051	1.3	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.1	29.99	761.7	55.8	13.2	77	wnw.			3		10		nw.	0.382	9.7	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.2	30.04	763.0	51.1	10.6	55	wnw.			1		5 k		w.	0.189	4.8	cloudy	M. André, Director.
Mans, Normal School	29.61	752.2	30.04	763.0	52.7	11.5	76	w.			4		10		w.			light rain	M. Richard, Director.
Marseille, Observatory	29.70	754.4	29.97	761.3	59.2	15.1	33	nw.			5		1		nw.	0	0		M. Stephan, Director.
Montlouis	24.81	630.2	29.65	753.2	42.4	5.8	44	e.	9.4	4.2			6		ne.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.90	759.5	30.00	762.1	61.2	16.2	50	w.			4		2	s.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.12	739.6	29.91	759.6	51.4	10.8	61	ssw.			2		kn		w.	0.185	4.7		M. Hasse, Director.
Nantes, Observatory	29.84	758.0	30.01	762.2	56.5	13.6	84	sw.			1		10 n;kn		n	0	0		M. Larocque, Director.
Perpignan, Observatory	29.99	761.7	30.10	764.5	62.6	17.0	36	nw.	18.6	8.3			1		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.20	538.5			23.4 — 4.8			n.			1		5		n.	0.433	11.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.24?	742.7?	30.30?	769.5?	64.4	18	63				3		0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.07	636.7			30.7 — 0.7		100	w.			6		10			0.067	1.7	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	57.2	14.0	82	ssw.			2		10		sw.	0.189	4.8	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	756.9	29.98	761.4	54.3	12.4	95	w.			2		10		w.	0.008	0.2	covered	M. Brotier, Director.
Rodez, Normal School	28.05	712.5	30.21	767.3	50.0	10	86	nw.			4		10		se.			raining	M. Seger, Director.
Rouen, Normal School	29.71	754.7	29.76	755.9	53.6	12	90	wsw.			4		10	w.		0.031	0.8	covered	M. Mouillot, Dir.
St. Lô	29.66	753.4	29.80	757.0	54.1	12.3	90	w.			2		10		w.	0.134	3.4	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.68	753.9	29.85	758.1	49.8	9.9	93	sw.			1		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.45	748.1	30.18	766.6	57.2	14.0	58	w.			2		8	nw.		0	0	very cloudy	M. Baillard, Director.
Tours	29.78	756.3	29.95	760.8	55.8	13.2	77	sw.			2		10		wsw.			raining	M. de Tastes.
Versailles, Observatory	29.35	745.4	29.84	757.8	49.3	9.6	92	w.			4		10			0.413	10.5	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.06	763.5	30.21	767.3	59.0	15.0	76	w.	9.8	4.4			6 k		w.	0.449	11.4		M. Cartier, Director.
German.																			
Ansbach	28.44	722.3	29.89	759.2	50.0	10.0	65	sw.			2		7	sw.		0.079	2.0		Prof. Jnedt.
Bamberg	29.03	737.4	29.87	758.8	52.0	11.1	70	w.			2		10 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.59	751.6	29.73	755.2	51.8	11.0	85	w.			4		10			0.102	2.6		Dr. Lensch.
Breslau	29.29	744.0	29.82	757.4	54.3	12.4	50	wsw.			4		10			0	0		Royal University Obs'y.
Carlsruhe	29.45	747.9	29.91	759.6	50.4	10.2	73	sw.			5		10	sw.		0.138	3.5		Albert Senz.
Cassel	29.02	737.0	29.73	755.1	52.2	11.2	66	sw.			5		8	w.		0.012	0.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.46	748.2	29.82	757.5	54.5	12.5	56	wsw.			1		7			0.055	1.4		Physical Society.
Friedrichshafen	28.52	724.4	29.94	760.4	52.5	11.4	67	sw.			3		4	sw.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.58	751.2	29.67	753.5	52.5	11.4	76	wsw.			3		7	w.		0.283	7.2		E. Preiler.
Kiel	29.60	751.8	29.61	752.2	53.2	11.8	74	wsw.			2		4			0.138	3.5		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.36	745.8	29.78	756.4	54.7	12.6	66	wsw.			2		6	w.		0	0		H. Leppig, Asst.
Magdeburg	29.54	750.3	29.72	755.0	55.9	13.3	63	wsw.			3		10	w.		0	0		Weather Observatory.
Memel	29.51	749.5	29.56	750.7	53.8	12.1	87	w.			5		10 k						Issermann.
Munich	28.09	713.4	29.94	760.5	48.7	9.3	67	nw.			2		9	nw.		0.012	0.3		Central Station.
Neufahrwasser	29.58	751.2	29.59	751.6	54.3	12.4	76	sw.			3		10			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.32	744.6	29.84	757.9	52.9	11.6	55	sw.			4		5	sw.		0	0		Dicknether.
Stuttgart	28.94	735.0	29.83	757.7	53.2	11.8	52	w.			4		7	w.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	29.59	751.5	29.61	752.1	51.8	11.0	77	wnw.			5	c	8 s			0.287	7.3		Profs. Brandes & Reimer
Greek.																			
Athens	29.63	752.7	30.00	762.1	83.1	28.4		s.			1.0		9			inap.	inap.	smoky	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.82	757.4	29.87	758.7	84.9	29.4	74	sw.	23.0	10.3			0			0	0	blue sky	
Deesa	29.35	745.5	29.82	757.3	91.1	32.8	43	nne.	8.0	3.6			2	ne.		0	0	d. clouds	
Bombay	29.83	757.7	29.87	758.7	81.1	27.3	87	wsw.	11.0	4.9			5	wsw.	wnw.	0	0	d. clouds	
Poona, Yarrowda	28.01	711.3	29.86	758.3	80.3	26.8	71	w.	13.0	5.8			6			0	0	d. clouds	
Trichinopoly	29.58	751.4	29.86	758.5	79.1	26.2	77	wnw.	inap.	inap.			10			0.43	10.9	overcast	
Bellary	28.33	719.6	29.81	757.2	76.0	24.4	86	w.	4.0	1.8			10	se.		0.06	1.5	overcast	
Belgaum	27.32	693.9	29.86	758.6	74.8	23.8	81	sw.	9.0	4.0			8	e.	w.	0	0	d. clouds	
Lahore	29.11	739.4	29.84	758.0	88.1	31.2	44	sw.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.92	734.6	29.80	757.0	86.8	30.4	56	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.28	743.6	29.82	757.5	95.1	35.1	27	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.79	731.2	29.82	757.4	87.0	30.6	46	calm	3.0	1.3			3		w.	0	0	d. clouds	
Jubbulpore	28.54	724.8	29.87	758.7	88.4	31.3	49	nne.	2.0	0.9			0			0	0	blue sky	
Lucknow	29.45	748.0	29.82	757.5	86.1	30.1	53	calm	0	0			0			0	0	blue sky	
Allahabad	29.51	749.4	29.82	757.3	84.0	28.9	67	calm	0	0			0			0	0	blue sky	
Patna	29.62	752.2	29.80	756.9	87.0	30.6	65	nne.	2.0	0.9			0			0	0	d. clouds	
Hazaribagh	27.83	706.8	29.82	757.4	83.3	28.5	51	nw.	3.8	1.7			1			0	0	d. clouds	
Cuttack	29.75	755.5	29.83	757.6	84.5	29.2	74	calm	0	0			7			0	0	d. clouds	
Calcutta, Alipore	29.79	756.7	29.82	757.3	84.8	29.3	83	sse.	3.0	1.3			2			0	0	blue sky	
Dhubri	29.69	754.2	29.81	757.2	82.2	27.9	80	calm	0	0			0			0	0	d. clouds	
Chittagong	29.75	755.5	29.84	757.8	82.5	28.1	89	wsw.	2.2	1.0			6			0	0	blue sky	
Sibsagar	29.48	748.6	29.81	757.2	83.3	28.5	79	ne.	1.0	0.4			0			0	0	d. clouds	
Jeypore	28.44	722.3	29.85	758.3	90.7	32.6	43	ene.	1.2	0.5			4		ne.	0.23	5.8	d. clouds	
Zanzibar	30.02	762.5			80.7	27.1	72	nnw.	5.5	2.5			4		ssw.	0	0	d. clouds	
ITALIAN.																			
Udine	29.47	748.4	29.87	758.7	61.7	16.5	57	e.	3.8	1.7			7			0.028	0.7		Prof. Giovanni Olodig.
Milan	29.38	746.2	29.89	759.3	52.9	11.6	83	ne.	6.9	3.1			9		sse.	0.051	1.3		Prof. G.V.Schiapparelli
Padua	29.74	755.3	29.85	758.1	63.0	17.2	62	ese.	6.9	3.1			9		s.	0.102	2.6		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.1	29.89	759.1	55.0	12.8	66	sw.	1.8	0.8			5		n.	0.138	3.5		Prof. F. F. Denza.
Genoa	29.66	753.4	29.85	758.3	59.5	15.3	58	n.	4.9	2.2			0		se.	0	0		Prof. G. M. Garibaldi.
Mondovi	27.99	711.0	29.91	759.7	49.1	9.4	78	n.			2		10			0.091	2.3		Prof. D. C. Bruno.
Pesaro	29.80	756.8	29.84	758.0	65.1	18.4	69	ne.	6.9	3.1			8		sw.	0.012	0.3		Prof. Luigi Guidi.
Florence	29.62	752.3	29.87	758.7	59.0	15.0	87	nw.			6		10			0.035	0.9		Prof. Costantino Pittoi
Leghorn	29.73	755.1	29.82	757.3	63.5	17.5	62	w.	4.9	2.2			10		w.	0.209	5.3		Prof. P. Monte.
Rome	29.74	755.5	29.92	759.9	67.3	19.6	72	sw.	6.3	2.8			10			0	0		Prof. P. Tacchini.
Lecce	29.74	755.4	29.99	761.8	72.5	22.5	57	s.	12.5	5.6			10		s.	0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.9	29.97	761.2	72.0	22.2	66	ssw.	1.8	0.8			9		sw.	0.598	15.2		Prof. D. Conti.
Cagliari	29.73	755.2	29.92	760.0	68.4	20.2	52	nw.			2		9			0.256	6.5		Prof. A. Pacinotti.
Palermo	29.71	754.7	29.96	761.0	68.4	20.2	64	wsw.	0.7	0.3			10			0.035	0.9		Prof. G. Caccatore.
Syracuse	29.93	760.2	29.97	761.3	73.0	22.8	74	ssw.	16.1	7.2			10		sw.	0.039	1.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	748.0	29.97	761.1	65.1	18.4	83	sw.	0	0			10		ssw.	0.728	18.5	raining.	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.14	765.5	30.17	766.4	52.9	11.6	99	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.12	765.0	30.16	766.0	52.2	11.2	85	ssw.	4.5	2.0		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.08	764.0	30.18	766.5	62.7	17.1	91	ene.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.01	762.2	30.02	762.5	74.9	23.8	75	e.			2	0	7 s			0.288	7.3	fair	G. Miyanohaza.
Kanazawa	30.02	762.5	30.12	765.1	63.1	17.3	74	se.	7.9	3.5		0	1 s			0	0	fair	S. Endo.
Kioto	29.96	761.1	30.14	765.5	66.0	18.9	79	nne.	4.3	1.9		0	2 s			0	0	clear	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	69.9	21.1	90	wnw.	5.6	2.5			10 s			0.40	10.2	overcast	K. Kusunose.
Minaka	30.02	762.5	30.05	763.2	74.1	23.4	83	ne.			2	2	10 s		e.	2.730	69.5	overcast	K. Masusaki
Miyako	30.10	764.0	30.21	767.4	52.9	11.6	94	wsw.	1.7	0.7		0	0			0	0	clear	Honno & Naganka.
Nagasaki, I. M. Obs'y	29.84	757.9	30.03	762.7	70.5	21.4	75	se.	0.9	0.4			10 s			0.550	14.0	overcast	S. Takehayasu.
Niigata	30.10	764.5	30.14	765.5	59.6	15.3	83	ne.	5.2	2.3		0	0			0	0	clear	Satoo & Tomikawa.
Nobiru	30.19	766.9	30.21	767.3	51.7	10.9	90	ssw.	4.2	1.9		0	0			0	0	clear	Yoshino & Midzushina.
Numazu	30.18	766.6	30.22	767.5	61.5	16.4	85	ne.			1	0	0			0	0	clear	R. Kaneda.
Osaka	30.10	764.4	30.11	764.9	66.9	19.4	79	ne.	9.7	4.3			10 s			0	0	cloudy	H. Omura.
Sakai	30.08	763.9	30.09	764.1	63.2	17.3	83	ne.			2	0	7 ks		n.	0.023	0.6	fair	Yamawchi&Sakamoto.
Shimonoseki	29.92	759.9	30.06	763.6	70.7	21.5	79	calm			0		10 ks		wsw.	0.358	9.1	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.16	766.1	30.24	768.0	56.9	13.8	90	ese.	3.0	1.3		0	0			0	0	clear	The Staff.
Wakayama	30.05	763.2	30.10	764.5	71.1	21.7	73	calm	0	0		0	7ck;s			0.041	1.0	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	72.8	22.7	74	se.	8.0	3.6			10n;ks			0	0	overcast	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.00	762.0	57.2	14.0	89	n.	0.9	0.4		3 c	4 ck	se.	se.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.67	752.2	29.87	758.7	77.0	25.0	95	ese.	15.4	6.9			10 n		s.	2.008	51.0		F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.60	751.7	29.60	751.7	49.3	9.6		ssw.			4					0.508	12.0		
Groningen	29.54	750.2	29.59	751.6	47.5	8.6		sw.			4					0.189	4.8		
Helder	29.51	749.5	29.51	749.5	48.6	9.2		sw.			4					1.591	40.4		
Hellevoetsluis	29.60	751.8	29.60	751.8	48.4	9.1	93	sw.			4					0.799	20.3		
Utrecht	29.55	750.6	29.60	751.8	47.3	8.5	91	ssw.			4		10			0.740	18.8	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.2			79.7	26.5	75	nne.	0	0			4			0	0		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.51	749.6	29.58	751.2	50.7	10.4	68	nnw.	9	4			2			0.063	1.6		
Brono	29.52	749.7	29.56	750.7	44.2	6.8	77	w.			6		10			0.197	5.0	light rain	
Christiania	29.45	748.0	29.60	751.7	45.3	7.4	60	sw.	4	2			0			0	0		
Gjæsvær	29.50	749.2	29.52	749.8	30.0	— 0.8		ese.			2		10						
Lodingen	29.43	747.5	29.48	748.7	40.8	4.9	68	n.			2		10			0.043	1.1		
PORTUGUESE.																			
Angra, Azores					69.1	20.6	85	sse.	15.0	6.7			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.32	770.1	30.41	772.3	72.0	22.2	47	ene.	6.3	2.8			3		n.	0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.0	30.34	770.6	63.0	17.2	35	nne.	16.8	7.5			3			0	0		The Staff.
Ponta Delgada, Azores	30.54	775.7	30.61	777.5	70.9	21.6	45	ese.	6.9	3.1			5			0	0		
Saint Paul de Loando	29.78	756.3	29.98	761.4	76.3	24.6	90	w.	1.3	0.6			3			0	0		
San Salvador, Congo	28.13	714.5	29.96	761.0	79.0	26.1	64	nw.			1		10			0.787	20.0		
Serra da Estrella	25.51	647.9	30.30	769.6	46.4	8.0	64	ne.	3.1	1.4			5			0	0		
RUSSIAN.																			
Akmolinski	28.76	730.4	29.80	757.0	62.4	16.9	62	wnw.	9	4		4 ck	0			0	0	light clouds	Major K. Lasarew.
Archangel	29.48	748.7	29.50	749.2	42.6	5.9	81	w.	4	2			10			0	0	light clouds	Capt. Sseliwerstow
Ashurada	30.12	765.1	30.03	762.7	78.4	25.8	76	nnw.	9	4		0	1 s			0	0		
Astrakhan	29.94	760.4	29.87	758.0	77.7	25.4	63	ssw.	7	3		0	8 s			0	0		Capt. Wisganow.
Baku	30.02	762.5	29.97	761.3	76.1	24.5	83	ssw.	22	10		0	0			0	0	light clouds	
Barnaul	29.32	744.6	29.80	756.9	63.9	17.7	30	sw.	4	2			9			0.035	0.9	rain & fog	Meteorological Obs'y
Bielosersk	28.98	736.1	29.45	748.0	43.0	6.1	100	nw.	4	2			10			0.016	0.4		
Dorpat	29.26	743.1	29.50	749.2	52.3	11.3	87	w.	4	2			10 ks			0.303	7.7		Observatory.
Ekaterinburg	28.72	729.4	29.65	753.0	62.6	17.0	63	sw.	4	2			10			0	0		Meteorological Obs'y.
Elisawetgrad	29.50	749.3	29.94	760.4	68.7	20.4	42	w.	7	3		0	4 k			0	0		
Irkutsk	28.33	719.5	29.95	760.8	52.0	11.1	59	calm			0		9						
Kasalinsk					74.8	23.8	32	w.	18	8		0	0						
Kasan	29.07	738.3	29.33	744.9	56.1	13.4	91	ene.	4	2			10 n			0.185	4.7	raining	Observatory.
Kem	29.43	747.4	29.48	748.7	45.5	7.5	60	w.	4	2		0	7 k			0	0		
Kertch	29.59	761.7	30.01	762.3	70.0	21.1	42	wnw.	4	2		0	0			0	0		Lagorio & Sastyren.
Kieff	29.26	743.1	29.88	758.0	60.8	16.0	54	w.	21	5		0	8ks;n			0	0		Observatory.
Koslov	28.95	735.4	29.44	747.8	57.4	14.1	84	wnw.	16	7			10 s			1.614	41.0		
Liban	29.47	748.4	29.49	749.0	51.1	10.6	85	ene.	2	1			7			1.205	30.6		E. Quaas.
Lugan	29.61	752.0	29.81	757.1	67.5	19.7	47	wsw.	45	20			7			0	0		Meteorological Obs'y.
Moscow	29.01	736.8	29.47	748.5	57.6	14.2	72	nnw.	6.7	3.0		0	7 ks			0.154	3.9		Meteorological Obs'y
Nikolaiev	29.89	759.2	29.96	761.0	70.7	21.5	55	sw.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.80	756.9	29.89	759.1	42.8	6.0	91	calm	0	0		0	4 n						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Pekin, China	29.97	761.2	30.11	764.8	63.0	17.2	50	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.80	756.8	30.13	765.3	81.1	27.3	30	calm	0	0		0	0			0	0		
Petrozavodsk	29.29	743.9	29.48	748.9	40.6	4.8	65	se.	7	3		0	3 ks			0	0		Dr. Bergmann.
Pinsk	29.31	744.5	29.80	757.0	56.5	13.6	54	wsw.	18	8		0	8 k			0	0		
Poti	29.91	759.6	29.94	760.4	80.1	26.7	90	ssw.	4	2		0	0			0	0		
St. Petersburg	29.49	749.0	29.51	749.6	48.0	8.9	83	ene.	4	2			10 n			0	0		Central Physical Obs'y.
Samarkand	27.71	703.9	30.13	765.3	68.2	20.1	67	calm	0	0		0	0			0	0		
Semipalatinsk	29.26	743.3	29.90	759.4	68.9	20.5	23	calm	0	0			4			0	0		Major Lasarew
Sevastopol	29.84	757.8	30.04	763.0	70.9	21.6	66	n.	4	2		0	1 s			0	0		
Starol Bykhov	29.19	741.3	29.73	755.2	55.2	12.9	65	w.	13	6			9 kn			0.106	2.7		
Tashkend Laboratory	28.50	723.9	30.11	764.7	76.6	24.8	43	calm	0	0		0	3 ks			0	0	light clouds	Terch, A. M
Tiflis	28.62	726.9	29.96	760.9	84.6	29.2	40	calm	0	0		0	0			0	0		Physical Observatory.
Vernoe	27.55	699.8	29.99	761.8	64.8	18.2	55	calm	0	0			9 n			0	0		
Viatka	28.80	731.5	29.41	747.1	55.0	12.8	99	se	2	1			10			0.406	10.3		
Warsaw	29.35	745.4	29.76	756.0	55.0	12.8	50	sw.	18	8		0	7 k			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.50	749.3	29.79	756.7	42.4	5.8	100	e.	4	2			10			0.402	10.2	raining.	M. O. Marks.
SCOTTISH.																			
North Unst																			Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.80	756.9	29.90	759.5	66.9	19.4	56	wsw.	7.6	3.4		0	2			0.118	3.0		Antonio Molins.
Bilbao, Met. Obs'y	30.20	767.1	30.26	768.6	59.2	15.1	83	nw.	1.6	0.7			10			0.500	12.7	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.26	692.5	30.25	768.3	55.4	13.0	55	n.	5.6	2.5		0	3			0.059	1.5	light clouds	Domingo Martin.
Madrid, Royal Obs'y	28.00	711.3	30.23	767.9	61.3	16.3	43	n.	6.0	2.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.00	762.0	30.15	765.9	71.8	22.1	44	nnw.	1.6	0.7		0	3	se.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.54	759.3	30.30	769.6	51.8	11.0	93	e.	17.2	7.7			10 n		w.	0.024	0.6	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.40	746.7	30.30	769.7	55.9	13.3	87	calm	0	0			10			0.020	0.5	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	762.9	30.10	764.6	76.4	24.7	87	ese.	3.4	1.5		cs	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.00	759.4	29.96	760.9	80.2	26.8	82	wnw.	22.0	9.8		2 c	6 kn			0.118	3.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.5	30.28	769.0	68.0	20.0	31	n.	9.4	4.2		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.96	761.0	30.05	763.3	80.6	27.0	88	calm	0	0		4 cs	3 k	se.	se.	0.079	2.0	d. clouds	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.49	749.1	29.53	750.1	42.1	5.6	73	calm			0		0			0	0		
Umea	29.49	749.0	29.54	750.3	46.8	8.2	55	nnw.			2		1			0	0		
Hernosand	29.51	749.6	29.56	750.9	49.6	9.8	54	e.			2		2			0	0		
Stockholm	29.36	745.8	29.54	750.3	46.0	7.8	72	n.			2		10			0.083	2.1		
Wisby	29.43	747.5	29.49	749.0	52.2	11.2	85	nne.			4		10			0.465	11.8		
Sub-series.																			
Upsala	29.43	747.5	29.52	749.7	45.5	7.5	65	n.	8.5	3.8			4	wnw.	w.	0.004	0.1		H.H. Hildebrandesson.
SWISS.																			
Geneva	28.59	726.1	30.02	762.5	52.5	11.4	49	s.			1		10			0.004	0.1	covered	The Observatory.
TURKISH.																			
Constantinople			30.01	762.3	75.7	24.3	61	nne.	15	6.5			4		sw.	0	0		The Observatory.
Valona			30.13?	765.2?	72.0	22.2		se.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.3	81.5	27.5	68	ne.			2		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.61	675.9			73	22.8	51	calm			0	5 c		w.		0	0		Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.89	759.2	29.97	761.2	49	9.4	71	w.	1	0.4		0	fg.			1.70	43.2	clear	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.03	762.7	34	1.1	79	w.	11	4.9		0	1 k		w.	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.78	629.4	29.68	753.9	58	14.4	72	se.	18	8.0		0	5 s			0.04	1.0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.16	766.1	27	— 2.8	56	sw.	1	0.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.10	764.5	72.5	22.5	87	sw.	8	3.6		4 k	0	w.		0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	51	10.6	80	n.	1	0.4		0	0			0.12	3.0	clear	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	75.0	23.9	83	sw.	1	0.4		6 k	fg.	w.		0	0	fair	Louis Duane.
Baltimore, Maryland	30.04	763.0	30.09	764.3	54	12.2	66	n.	2	0.9			10 s		w.	0.37	9.4	cloudy	Geo. W. Fenger.
Barnegat City, New Jersey	30.01	762.2	30.03	762.7	53.0	11.7	80	n.	7	3.1		0	0			0.86	21.8	clear	G. A. Hill.
Behring Id., Behring Sea																			Geo. Chernick.
Bennett, Fort, Dakota	28.64	727.4	30.26	768.6	21.0	— 6.1	87	calm	0	0		hz.	2 s; hz			0	0	light haze.	A. Pritchard.
Benton, Fort, Montana	27.32	693.9	30.23	767.8	27	— 2.8	77	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.37	720.6	30.25	768.3	30.0	— 1.1	80	e.	5	2.2		0	sk			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	48.0	8.9	86	n.	2	0.9		0	2 ks		nw.	0.82	20.8	clear	J. T. Eiker.
Boise City, Idaho	26.83	681.5	29.69	754.1	48	8.9	93	sw.	2	0.9			10 n			0.23	5.8	light rain	B. E. Light.
Boston, Massachusetts	29.80	756.9	29.96	761.0	42.0	5.6	93	n.	4	1.8		0	hz.			1.51	38.4	clear	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	78.0	25.6	88	s.	10	4.5		c	3 ks		s.	0	0	clear	John McGlone.
Buffalo, New York	29.18	741.2	29.94	760.5	52.3	11.3	64	sw.	16	7.2		0	hz.			0.64	16.3	clear	Wm. Finn.
Buford, Fort, Dakota	28.16	715.3	30.21	767.3	22	— 5.6	73	ne.	1	0.4		0	1 s			0	0	clear	A. Schneider.
Cairo, Illinois	29.76	755.9	30.16	766.1	56.1	13.4	82	ne.	10	4.5			10 s		ne.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.76	755.9	29.99	761.0	52.3	11.3	96	ne.	6	2.7		0	1 s		ne.	inap.	inap.	clear	O. D. Stewart.
Cape Henry, Virginia	30.01	762.2	30.03	762.7	64.0	17.8	73	ne.	16	7.2		0	0			0.66	16.8	clear	A. K. Alderson.
Cape May, New Jersey	30.01	762.2	30.04	763.0	54.0	12.2	66	ne.	8	3.6		0	0			0.13	3.3	clear	Wm. Bolton.
Cape Mendocino, California	29.07	738.4	29.76	755.9	52	11.1	93	nw.	20	8.9			fg.		nw.	0.17	4.3	light fog	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	80.0	26.7	88	sw.	3	1.3		0	1 k		sw.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.97	761.2	30.03	762.7	78.0	25.6	88	w.	8	3.6		8 c	0	w.		0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.03	762.7	73.0	22.8	84	w.	4	1.8		10 cs	fg.	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.08	764.0	71.0	21.7	94	sw.	5	2.2		0	9 ks		sw.	0.02	0.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.68	611.6	30.10	764.5	40.2	4.6	92	s.	10	4.5			fg.			0	0	dense fog	E. McGovern.
Chicago, Illinois	29.42	747.3	30.13	765.3	42.0	5.6	65	w.	2	0.9		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	57	13.9	80	n.	10	4.5		hz	0			0.31	7.9	clear	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.12	765.0	55.0	12.8	86	nw.	2	0.9		1 c	0	w.		0.23	5.8	clear	L. Dunne.
Cleveland, Ohio	29.30	744.2	30.04	763.0	46.8	8.2	70	sw.	10	4.5		1 k	0			0.03	0.8	clear	J. B. Newlin.
Coleman City, Texas																			T. J. Kenan.
Columbus, Ohio	29.22	742.2	30.08	764.0	46	7.8	76	nw.	1	0.4		0	fg.			0.12	3.0	clear	D. Outhbertson.
Concho, Fort, Texas	27.95	709.9	29.90	759.4	69.0	20.6	97	e.	10	4.5			10 s		se.	2.44	62.0	cloudy	C. E. King.
Custer, Fort, M. T.	26.88	682.7	30.12	765.0	34	1.1	72	sw.	3	1.3		10 cs	0	s.		0.01	0.3	cloudy	T. Gibson.
Davenport, Iowa	29.50	749.3	30.16	766.1	40	4.4	65	nw.	8	3.6		hz.	hz.			0	0	dense haze.	R. R. Martin.
Davis, Fort, Texas	28.09	637.3	29.94	760.5	60	15.6	93	n.	4	1.8			10 s		se.	0.31	7.9	cloudy	J. Williams.
Dayton, Washington T'y	28.15	715.0	29.94	760.5	34.0	1.1	88	ne.	3	1.3		0	0			0.03	0.8	clear	D. Moore.
Deadwood, Dakota	25.48	647.2	30.16	766.1	41.9	5.5	86	calm	0	0			10 s			0.02	0.5	cloudy	F. Des Willson.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	57	13.9	74	n.	11	4.9		0	0			0.18	4.0	clear	F. W. Mixer.
Denver, Colorado	24.78	629.4	30.04	763.0	47.0	8.3	80	nw.	10	4.5			10 s		nw.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.23	767.8	40	4.4	82	n.	5	2.2		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.05	763.3	43.0	6.1	74	sw.	6	2.7		0	0			0.09	2.3	clear	E. R. Brace.
Dodge City, Kansas	27.49	698.2	30.12	765.0	53	11.7	80	ne.	12	5.4			10 s		ne.	0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.48	748.8	30.20	767.1	38.3	3.5	63	nw.	1	0.4		0	fg			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.49	749.0	30.25	768.3	30	— 1.1	67	w.	13	5.8		0	0			0	0	clear	N. B. Conger.
Eastport, Maine	29.76	755.9	29.83	757.7	39.5	4.2	89	n.	8	3.6			10 s		nw.	0.88	22.4	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	30.05	763.3	53	11.7	86	n.	13	5.8			10 s		n.	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.15	664.2	29.89	759.2	62.0	16.7	90	e.	4	1.8			10 n		e.	0.59	15.0	light rain	J. O'Dowd.
Erie, Pennsylvania	29.27	743.4	30.00	762.0	48	8.9	77	sw.	6	2.7		4 k	0	w.		0.29	7.4	fair	C. A. Shaw.
Escanaba, Michigan	29.47	748.5	30.14	765.5	30.0	— 1.1	78	w.	7	3.1		0	1 s			0	0	clear	George Heathcote.
Galveston, Texas	29.95	760.7	29.99	761.7	80.2	26.8	91	s.	12	5.4		4 cs	4 ks		sw.	0	0	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.40	746.7	30.07	763.8	41.0	5.0	78	ne.	4	1.8		hz.	0			0	0	dense haze.	Wm. H. Fallon.

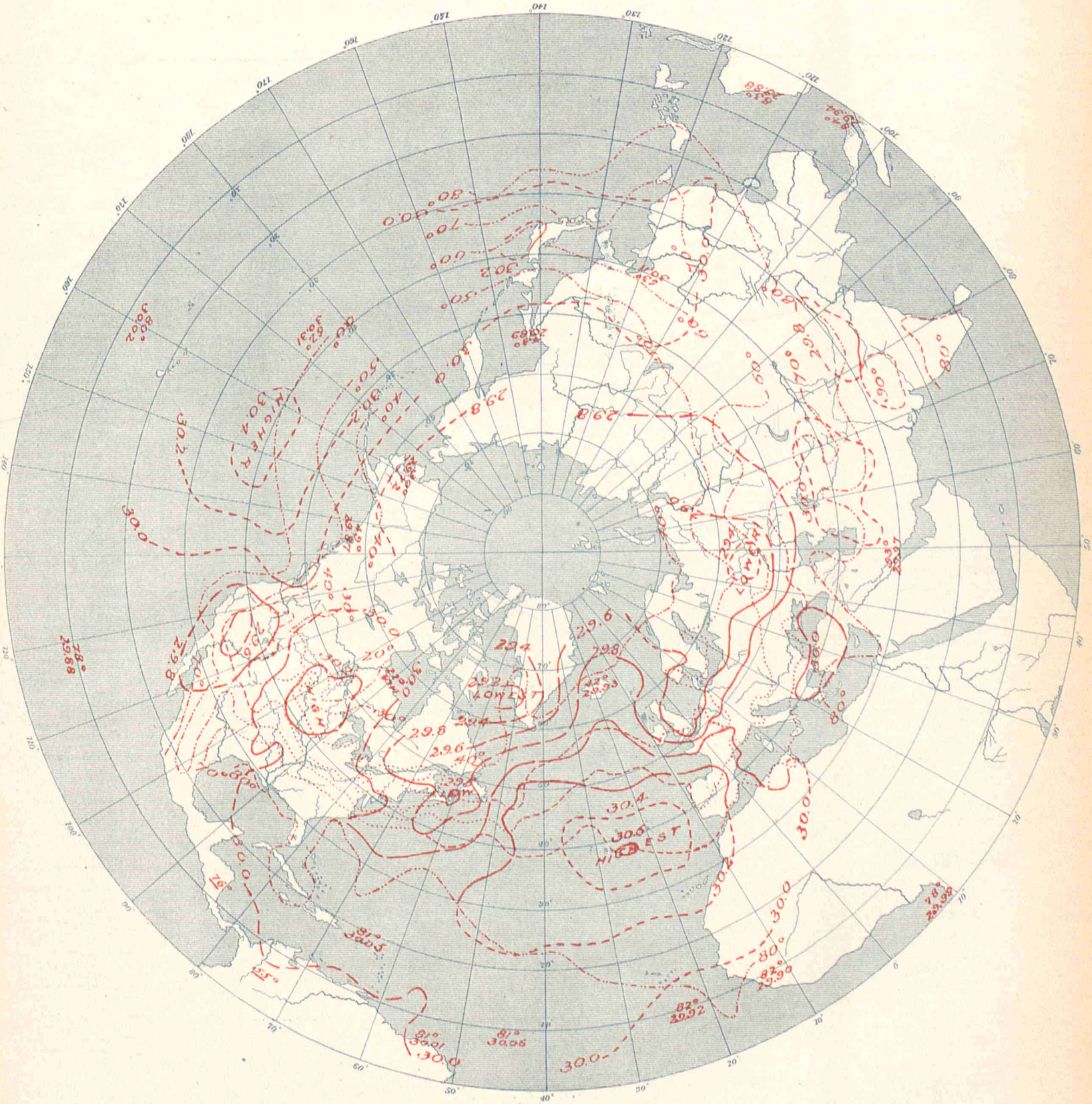
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.01	635.2	29.71	754.6	59.5	15.2	75	se.	6	2.7			10 s			0.56	14.2	cloudy	Chas. A. Read.
Hatteras, North Carolina	29.98	761.5	29.99	761.7	72.0	22.2	97	ne.	8	3.6		6 k	0	n.		0.03	0.8	fair	R. M. Crawford
Helena, Montana	25.79	655.1	30.09	764.3	38	3.3	73	n.	5	2.2		0	0			blank	blank	clear	T. H. Jones.
Huron, Dakota	28.85	732.8	30.28	769.1	27.3	— 2.6	69	nw.	3	1.3		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.11	764.8	45.4	7.4	93	calm	0	0			fg.			0.03	0.8	dense fog	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	79.3	26.3	90	s.	15	6.7		0	4 ks		s.	0	0	fair	I. A. Reed.
Jacksonville Florida	30.09	764.3	30.13	765.3	78.0	25.6	89	sw.	1	0.4		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.52	749.8	30.18	766.6	45.0	7.2	80	nw.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	80	26.7	79	e	3	1.3		0	3 k		e.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	67.5	19.7	81	e.	15	6.7		0	2 k		e.	0.56	14.2	clear	Wesley Blake.
Knoxville, Tennessee	29.00	736.6	30.04	763.0	68.2	20.1	95	sw.	1	0.4			10 s		sw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.25	768.3	35	1.7	69	n.	8	3.6		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.29	744.0	30.19	766.8	47	8.3	77	n	1	0.4		7k;cs	0	sw.		0	0	fair	T. S. Outram.
Lewiston, Idaho	29.06	738.1	29.91	759.7	47.0	8.3	93	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.69	754.1	30.01	762.2	68.5	20.3	93	calm	0	0			10 s			0	0	cloudy	W. U. Simonz.
Los Angeles, California	29.34	745.2	29.74	755.4	59	15.0	75	se.	9	4.0		0	5 s		s.	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.09	764.3	54	12.2	86	n.	10	4.5		1 cs	0	w.		0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.34	745.2	30.03	762.7	61.5	16.4	84	calm	0	0		0	0			0.73	18.5	clear	Jno. Healy.
Mackinaw City, Michigan	29.39	746.5	30.06	763.5	40.0	4 4	65	nw	20	8.9		0	7 ks		nw.	0.03	0.8	fair	D. B. Notson.
Macon, Fort, North Carolina	29.99	761.7	30.00	762.0	76.0	24.4	97	w.	1	0.4		1 cs	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.58	649.7	30.12	765.0	31	— 0.6	41	se.	4	1.8		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.39	746.5	30.13	765.3	33.0	0.6	68	w.	8	3.6		0	4 k		w.	inap.	inap.	fair	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.08	764.0	64	17.8	100	calm	0	0			10 n			2.80	71.1	thund'r st'm	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.14	765.5	38	3.3	72	n.	9	4.0		0	sk.			0	0	clear	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.06	763.5	30.10	764.5	76	24.4	86	calm	0	0		8 c	hz.	n.		0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.86	758.4	30.10	764.5	77	25.0	85	sw.	3	1.3		4 cs	0			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.24	742.7	30.26	768.6	16	— 8.9	83	n.	5	2.2		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.55	598 2	29.89	759.2	20.0	— 6.7	100	nw.	36	16.1		0	0			0.35	8.9	clear	S. W. Beall.
Nashville, Tennessee	29.52	749.8	30.10	764.5	63.0	17.2	93	nw.	4	1.8			10 n		w.	0.31	7.9	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.89	759.2	30.01	762.2	43	6.1	93	n.	4	1.8		0	0			1.41	35.8	clear	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	49	9.4	77	calm	0	0		0	0			1.75	44.4	clear	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	76.5	24.7	88	sw.	1	0.4		0	7ks;fg		sw.	0	0	fair	M. Herman.
New York, New York	29.85	758.2	30.03	762.7	50.2	10.1	76	w	3	1.3		0	fg.			0.72	18.3	clear	H. J. Penrod.
Norfolk, Virginia	29.98	761.5	30.01	762.2	63.0	17.2	81	ne.	3	1.3		hz.	0			0.20	5.1	clear	Wm. Davis.
North Platte, Nebraska	27.25	692.1	30.21	767.3	46.6	8.1	83	e.	4	1.8			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.95	760.7	29.99	761.7	48	8.9	93	calm	0	0			10 s			inap.	inap.	cloudy	J. Dascomb
Omaha, Nebraska	29.07	738.4	30.27	768.8	42.0	5.6	82	n.	3	1.3		0	fg.			0	0	clear	A. Pollak
Oswego, New York	29.56	750.8	29.89	759.2	48.0	8.9	77	sw.	6	2.7		0	hz.			0.78	19.8	clear	J. G. Linsley
Palestine, Texas	29.46	748.3	30.02	762.5	76.0	24.4	90	s.	12	5.4		0	6 ks		s.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	75.3	24.1	94	sw.	4	1.8		3 c	0	w.		0	0	clear	M. McGauran.
Philadelphia, Pa	29.95	760.7	30.05	763.3	52	11.1	86	nw.	1	0.4		0	0			0.49	12.4	clear	T. F. Townsend.
Pike's Peak, Colorado	17.86	453.6	30.14	765.5	23	— 5.0	80	sw.	26	11.6		4 ck	0	w		0	0	fair	H. Hall.
Pittsburg, Pennsylvania	29.25	742.9	30.07	763.8	51.0	10.6	80	sw.	1	0.4		0	8 s		w	0.34	8.6	cloudy	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.33	745.0	30.02	762.5	38.8	3.8	85	w.	8	3.6		0	0			0.04	1.0	clear	M. H. Perry
Portland, Maine	29.86	758.4	29.91	759.7	42	5.6	82	w.	2	0.9		0	0			0.76	19.3	clear	W. W. Eichelberger.
Portland, Oregon	29.85	758 2	29.92	760.0	50.0	10.0	93	calm	0	0		0	3 s			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.47	621.5	29.63	752.6	51.5	10.8	61	s	11	4.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	29.92	760.0	29.95	760.7	48.5	9.2	77	calm	0	0		0	8 ks		w.	1.63	41.4	cloudy	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.32	744.7	29.68	753.9	60	15.6	44	n.	14	6.3		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.68	753 9	29.92	760.0	78.0	25.6	81	se.	6	4.0		0	7 s		se.	0	0	fair	Fred. Belford.
Roseburg, Oregon	29.34	745.2	29.90	759.4	53.7	12.1	77	n.	2	0.9		0	9 s		nw.	0	0	cloudy	J. J. Nunry.
Sacramento, California	29.54	750.3	29.62	752.3	54.0	12.2	86	ne.	4	1.8		0	2 s			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.56	750.8	30.18	766.6	49.3	9.6	83	n.	5	2.2		5 cs	sk.			0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.69	754.1	29.72	754.9	30	— 1.1	94	w.	11	4.9			10 s		w.	0.09	2.3	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.39	746.5	30.26	768.6	33.5	0.8	65	calm	0	0		0	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.35	745 5	30.25	768.3	19	— 7.2	84	sw.	2	0.9		0	2 s			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.38	644.6	29.78	756.4	51.4	10.8	74	e.	4	1.8			10 n			0.33	8.4	light rain	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.67	753.6	29.74	755.4	61.0	16.1	65	sw.	8	3.6		0	4 k		sw.	0	0	fair	F. R. Day.
Sanford, Florida	30.05	763.5	30.11	764.8	73.5	23.1	94	sw.	3	1.3		0	fg.			0	0	dense fog	J. B. Marbury.
Sandusky, Ohio	29.38	746.2	30.07	763.8	46.5	8.1	72	w.	5	2.2		0	0			0.04	1.0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	53.0	11.7	66	nw	8	3.6		0	0			0.42	10.7	clear	B. A. Blundon
San Francisco, California	29.61	752.1	29.68	753.9	55.0	12.8	86	w.	1	0.4		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones
Savannah, Georgia	29.99	761.7	30.08	764.0	80	26.7	80	w.	8	3.6		5 c	0			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26 43	671.3	30.13	765.3	26	— 3.3	88	e.	6	2.7		0	sk.			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.74	755.4	29.98	761.5	75.5	24.2	84	s.	3	1.3		0	8 ks		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly.
Sitka, Alaska	29.80	756.9	29.87	758.7	49	9.4	80	se.	16	7.2			10 n		se.	0.51	13.0	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.52	749.8	30.00	762.0	68.8	20.4	90	e.	4	1.8			10 s		s.	0	0	cloudy	J. B. Campbell
Smithville North Carolina	29.97	761.2	30.01	762.2	77.0	25.0	97	w.	7	3.1		1 c	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.76	705.1	29.84	757.9	36.8	2.7	82	n.	1	0.4		0	sk.			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.49	749.0	30.18	766.6	44.5	6.9	68	n.	8	3.6		4 ck	0	w		0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	20.87	682.5	29.90	759.4	65.0	18.3	90	sw.	1	0.4			10 s		sw.	0.06	1.5	cloudy	Louis Dorman.
Tatoosh Id., Wash. Ter	29.89	759.2			50.0	10.0	98	e.	13	5.8		0	0			0	0	clear	R. Connor.
Thomas, Camp, Arizona					55	12.8	57	s.			2	0	9 s			0	0	cloudy	R. C. Lord.
Toledo, Ohio	29.33	745.0	30.03	762.7	43.5	6.4	78	w.	8	3.6		0	0			0.03	0.8	clear	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	30.13	765.3	30.15	765.8	39	3.9	65	s.	5	2.2		0	0			0.07	1.8	clear	Samuel Applegate.
Verde, Fort, Arizona					64	17.8	42	s.			1	0	2 s			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.78	756.4	30.04	763.0	75.0	23.9	90	s.	5	2.2		0	4 s		sw.	0	0	fair	James Kenealy.
Visalia, California																			O. D. Stewart
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.97	761.2	30.09	764.3	53.3	11.8	80	calm	0	0			10 s		nw.	0.26	6.6	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.09	662.7	30.02	762.5	47.5	8.6	80	e.	14	6.3			10 s		e.	0	0	cloudy	F. H. Brandenburg.
Williamsport, Pa																			B. F. Hough.
Wilmington, N. Carolina	29.97	761.2	30.03	762.7	77.0	25.0	90	sw.	1	0.4		5 c;ck	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.93	734.8	30.26	768.6	34.5	1.4	75	ne.	6	2.7		hz.	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.47	748.5	29.62	752.3	60.5	15.8	52	e.	2	0.9		0	1 s		s.	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		n.			2		10 n		n.	0.40	10.2	raining	W. H. Jackson.
Bogota, U. S. C.	22.06	560.2			55.4	13.0	71	calm	0	0			9s;4ks		w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.03	762.7	78.0	25.6	92	calm	0	0		9 cs	1 s		ne.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	81	27.2	82	e.			2	0	5 k		e.	0.100	2.5		Dr. O. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	77	25.0	89	calm			0		10 ks		calm	0.06	1.5	cloudy	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.					76	24.4	90	ne.			1		5 ks		ne.	0	0		Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory B. A.	30.07	763.8	30.14	765.5	21.5	— 5.8	93	nw.	17	7.6		1 c	0	nw.		0	0		Fortesque & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 40° 37′, E. 22° 57′	30.02	762.5	76	24.4	73	ssw.			1		10	ssw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.01	762.2	78	25.6	84	wsw.			2		1	wsw.						blue sky.
H. M. S. Flamingo, N 49° 43′, W. 54° 38′	29.94	760.5	47	8.3	85	e.			3		6	e.				2	var.	squally.
H. M. S. Iris, Port Said, Egypt	29.98	761.5	79	26.1	91	nnw.			1		1							blue sky.
H. M. S. Orontes, N 47° 20′, W. 60 52′	30.08	764.0	56	13.3	87	wsw.			6		9					4	wsw.	squally.
H.P. M. S. Duoro, St. Thomas, W. I	29.99	761.7	77.9	25.5	97	sse.			1		10		sw.	4 h'r	4 h'r	2	sw.	showery.
U. S. Navy Yard, Portsmouth, N. H *	29.89	759.2	50	10.0	86	nw.	5	2.2			0			1.50	38.1			clear.
U. S. S. Alliance, St. Johns, N.B.	29.83	757.7	43	6.1	92	n			3		10			light	light			foggy.
U. S. S. Jamestown, N. 20° 21′, W. 43° 26′	30.18	766.6	81	27.2	91	ese.			4		8		se.			sm'h		cloudy.
U. S. S. Kearsarge, N. 36° 26′ W. 60 26′	30.27	768.8	65	18.3	63	nnw.			4		0					sm'h		clear
U. S. S. Lancaster, N. 36° 17′, W. 6° 19′	30.28	769.1	64	17.8	94	ne.			2		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I.			50	10.0	86	sw.			2		2		calm			sm'h		fair.
U. S. S. Portsmouth, Newport, R I	29.98	761.5	46	7.8	92	nw.			1		2		sw.					clear.
U. S. S. Powhatan, Sydney, C.B	29.56	750.8	53	11.7	93	nnw.			3		10		nnw.					rainy.
U.S. S. Quinnebaug, Leghorn, Italy	29.94	760.5	64	17.8	73	wsw.			2–3		8		wsw.					cloudy
U. S. S. Pinta, N. 42° 27′. W. 70° 30′	29.56	761.0	45	7.2	84	wnw.			1		2		calm			long	ne.	clear.
U. S. S. Saratoga, N. 40° 53′, W. 73° 41′	30.01	762.2	51	10.6	100	wnw.			2–3		8?		wnw.	h'vy	h'vy	sm'h	wnw.	clear.?
U. S. S. Swatara, N. 42° 57′, W. 66° 29′	29.81	757.2	49	9.4	93	nw.			6		10		calm	h'vy	h'vy	long	nw.	raining.
U. S. S. Vandalia, Boston, Mass †	29.96	761.0	44	6.7	92	wnw.			1		5							hazy.
S. S. British Princess, N. 50° 38′ W. 30° 20′			60	15.6		nw.			3		10		nw.	o	o	high	wsw.	cloudy.
S. S. Lord Clive, N. 47° 53′, W. 41° 20′						ne.			1		5		w.	4 h'r	4 h'r	cross	var.	fine.
S. S. Lord Gough, N. 45° 50′, W. 54° 20′	29.78	756.4	52	11.1		sse.			7		10		sse.	o	o	mod.	se.	cloudy.
S. S. Ohio, Philadelphia, Pa †	30.03	762.7	50	10.0	93	nw.			2		0			2 h'r	2 h'r			clear.
S. S. Nova Scotian, off Sal'ees, Ireland			48	8.9		w.			5		10		nw.			sli't	wsw.	light rain.
S. S. Prussian, N. 50° 10′, W. 42° 16′	30.30	769.6	57	13.9		nw.			3		4		w.	4 h'r	4 h'r	cross	nw.	fair.
S. S. Scandinavian, Boston, Mass	29.97	761.2	43	6.1		nw.			1		0			7 h'r	7 h'r			misty.
S. S. Jason, N. 45° 34′, W. 51° 24′			55.4	13.0		var.			4–6		8 n					4	sw.	gloomy.
S. S. Alvo, N. 22° 20′, W. 74° 24′			80	20.7		ne.			5–6		8		ene.	2 h'r	2 h'r	long	e.	fine.
S. S. Ailsa, N. 38° 39′, W. 73° 56′ *†	30.177	766.3?	61	16.1	82	nw.			3		2		nw.	o	o	mod.	con.	fair.
S. S. Avilla, N. 18° 11′, W. 76° 28′ *†	30.07	763.8	84	28.9		ne.			2		3		ne.	rain	rain	sm'h		
S. S. Assyria, N 40° 21′, W. 68° 47′	29.93	760.2	50	10.0	?	nw			6		8		nw.	1 h'r	1 h'r	mod.	con.	clearing
S. S. Dorian, Malaga, Spain	30.12	765.0																fine.
S. S. Furnesia, N. 44° 32′, W. 49° 11′†	30.20	767.1	52	11.1	86	sse.			5		3		sse.	o	o	mod.	sw.	fair.
S. S. Jerome, N. 3° 51′ W. 48° 07′ *	29.82	757.4	81	27.2		ese.			2		7		se.	o	o	sli't	nne.	fair.
S. S. Landaff City, N. 51° 14′, W. 7° 05′			55	12.8		nw.			6		10		w.	o	o	high	wnw.	squally.
S. S. Cephalonia, N. 44° 39′, W. 45° 33′	30.23	767.8	60	15.6	82	ne.			2		9		ese.	1 h'r	1 h'r	mod.	ese.	overcast.
S. S. Bothnia, N. 49° 41′, W. 30° 28′	30.157	765.8?	64	17.8	89	nw.			4		8		nw.	5 h'r	5 h'r	mod	nw.	gloomy.
S. S. Samaria, Liverpool, Eng *	29.53	750.0	52	11.1		nnw.			6		8		nnw.	o	o			cloudy.
S. S. France, N. 47° 57′, W. 28° 28′*†	30.30	769.6	64.4	18		w.			4		10		sw.	rain	rain	sm'h	sw.	overcast.
S. S. Olinde, Rodrignes, N. 31° 05′ W. 34° 55′ *†	30.31	769.9	78	25.6		e.			4		3		se.	sh'rs	sh'rs	mod.	se.	clear
S. S. Arizona. N. 49° 22′, W. 37° 11′	30.30	769 6	56	13.3		w.			3		5		wnw.	o	o	r'gh	w	fair
S. S. Wyoming, N. 50° 39′ W. 18° 24′	30.18	766.6	57	13.9		w.			5		9		wnw.	o	o	long	w.	hazy.
S. S. Bohemia, Hamburg, Germany*†	29.65	753.1				w.			3–4		5?		w.	2 h'r	2 h'r			cloudy.
S. S. Frisia, N. 48° 35′, W. 36° 42′	30.32	770.1				ene.			3		5?		e.	4 h'r	4 h'r	r'gh	nw.	cloudy.?
S. S. Gellert, Hamburg, Germany	29.68	753.9	50	10.0	86	sw.			3		10		w.	7 h'r	7 h'r			covered.
S. S. Silesia, N. 46° 05′, W. 49° 45′			53	11.7		s.			6		10		s.	o	o		s.	covered.
S. S. Rhaetia, N. 50° 41′, E. 0° 34′	29.62	752.4	53	11.7	93	nnw.			4		10		nnw.	8 h'r	8 h'r	sm'h	nne.	raining.
S. S. Hevelius, N. 50° 30′, W. 1° 04′ †	29.57	751.1	56	13.3		w.			8				w.	12 h'r	12 h'r	high	w.	raining.
S. S. Rio Grande, N. 28° 03′, W. 91° 41′†	30.06	763.5	81	27.2		sse.			3		1		sse.	o	c	light	se.	clear.
S. S. Chalmette, Algiers, La†	30.10	764 5	76	24.4		se.			2		3		se.	o	o			clear.
S. S. New York, N. 28° 00′, W. 87° 45′*†	30.16	766.1	82	27.8		sw.			3		3		sw.	o	o	sm'h		clear.
S. S. Lone Star, N. 24° 27′, W. 81° 20′ *†	30.09	764.3	83	28.3		e.			2		3		e.	o	o	sm'h		clear.
S. S. Alleghany, Boston, Mass †	29.95	760.7	46	7.8		calm			0		0			12 h'r	12 h'r			hazy.
S. S. Archimede, N. 33° 59′, W. 37° 08′†	30.35	770.9	78	25.6		ssw.			3		6		sw.	2 h'r	2 h'r		ssw.	cloudy.
S. S. City of Merida, N. 23° 14,′ W. 83° 29′ *†	30.10	764.5	88	31.1		ese.			3		1		ese.	o	o	mod.	ese.	fine.
S. S. City of Washington, N. 39° 02, W. 74° 16′*†	30.05	763.3	60	15.6		n.			3		2		nw.	1 h'r	1 h'r	high	nw.	fine.
S. S. Canada, N. 44° 40′, W. 48° 00′			54	12.2		s.			3		10		calm	o	o	mod	nne.	overcast.
S. S. Denmark, N. 43° 42′ W. 43° 45′†	30.25	768.3	66	18.9		ene.			4		10		e.	o	o	sli't.	se.	cloudy.
S. S. Egypt, Mersey river, Eng			52	11.1		nnw.			5		5		nnw.	4 h'r	4 h'r			fair.
S. S. Grecian, Montreal, Canada	29.80	756.9	45	7.2	92	ssw.			3		10		wsw.	5 h'r	5 h'r			clear.
S. S. England, Mersey river, Eng						nnw.			6		8		nnw	sq'll	sq'll			squally.
S. S. Erin, London, Eng			50	10.0		nw.			4		10		nw.	o	o			overcast.
S. S. The Queen, N. 41° 55′, W. 51° 25′	30.04	763.0	70	21.1		ese.			4		2		sse.	o	o	mod.	se.	clear.
S. S. America, N. 48° 40′ W. 37° 25′*	30.29	769 4	59.0	15.0	70	w.			4		3		w.			mod.	sw.	clear.
S. S. Donau, N. 49° 33′, W. 8° 01′	29.98	761.5				wnw.			6		8		wnw.	2 h'r	2 h'r	r'gh	wnw.	cloudy.
S. S. Elbe, N. 49° 45, W. 15° 55′	30.17	766.4	59.9	15.5	94	nw.			5		10		nw.	2 h'r	2 h'r	long	nw.	cloudy.
S. S. Habsburg, N. 49° 52′, W. 34° 15′	30.26	768.6				wnw.			5		8		wnw.	1 h'r	1 h'r	r'gh	w.	cloudy.
S. S. Hohenstaufen, N. 21° 16′ W. 23° 42′	30.09	764.3	77.0	25.0		e.			5		6		ene.	light	light	mod.	ene.	fair.
S. S. Orinoco, New York, N. Y †	30.08	764.0				ww.			3		0			4 h'r	4 h'r			clear.
S. S. Main, N. 46° 40′, W. 48° 17′	30.18	766.6	50.0	10.0		sse.			4		8		s.	o	o	mod	sse.	cloudy.
S. S. Oder, N. 52° 29′, E 3° 22′			52.7	11.5		wnw.			5		10		nw.	5 h'r	5 h'r	cross	wnw.	cloudy
S. S. Ohio, Bremerhaven, Germany						sw.			6		9		sw.	6 h'r	6 h'r			rainy.
S. S. Salier, N. 45° 39′, W. 51° 20′*	29.93?	760.2?	57.2	14.0		se.			5		10		wsw.	o	o	cross	se.	covered.
S. S. Strassburg, N. 40° 17′ W 68° 03′	29.92	760.0	55.0	12.8	81	nw.			4		10		nw.	5 h'r	5 h'r	4	sw.	cloudy.
S. S. City of Augusta, Savannah, Ga†	30.18?	766.6?				nw.			2		2		nw.					clear.
S. S. Muriel, Saint Thomas, W.I	30.01	762.2	84	28.9		e.			3		0			o	o	sm'h		clear.
S. S. Belgenland, N. 41° 04′. W. 67° 29′†	29.87	758.7	56	13.3	?	nw.			5		8		nw.	3 h'r	3 h'r	r'gh	sw.	cloudy.
S. S. Rhynland, N. 45° 30′ W. 52° 06′	30.00	762.0	54	12.2		s.			6		8		s.	3 h'r	3 h'r	high	n.	rainy.
S. S. Pennland, Jersey City, N.J			54	12.2	87	n.			2		4		n	o	o			fair.
S. S. Switzerland, N. 50° 28′, W. 22° 56′ *†	30.13	765 3				ssw.			3		10		ssw.	4 h'r	4 h'r	mod	sw.	light rain.
S. S. Vaderland, Antwerp, Belgium			50	10.0		wsw.			5		10		w.	5 h'r	5 h'r			raining.
S. S. Waesland, Antwerp, Belgium	29.69	754.1	50	10.0		ssw.			5		10		sw.	14 h'r	14 h'r			rainy.
S. S. P. Caland, N. 49° 16′ W. 33° 15′	30.24	768.1	61.9	16.6	85	nw.			3		7		wnw.			5	sw.	fair.
S. S. Schiedam, N. 49° 38′, W. 17° 58′			64.8	18.2	82	wsw.			5		9		w.	o	o	long	w.	cloudy.
S. S. Zaandam, New York, N. Y	30.08	764.0	58.6	14.8	82	sw.			3–4		4		w.	o	o			fair.
S. S. W. A. Scholten, N. 45° 28′, W. 51° 58′	29.99	761.7	53.6	12.0	97	sse.			7		10		se.	o	o	5	sse.	
S. S. Valencia, Puerto Cabello, Venezuela *†	29.98	761.5	82	27.8	83	calm			0		2		ese.	o	o			
S. S. State of Nebraska, N. 40° 26′ W. 73° 20′			53	11.7		n.								8 h'r	8 h'r	sm'h		
S. S. Thingvalla, N. 42° 36′, W. 62° 30′†	29.79?	756.7?	57.2	14.0		wsw.			3		10		wsw.	3 h'r	3 h'r	cross	wsw.	covered.
S. S. Romano, Boston, Mass						se.			4		4		se.	10 h'r	10 h'r			
S. S. Salerno, Hull, Eng			46	7.8		sw.			1		10		sw.	0.4	10.			raining.
S. S. Oregon, N. 53° 58′, W. 45° 53′	30.03	762.7	46	7.8		wsw.			5		6		wsw.			long	wsw.	fair.
S. S. Quebec, N. 49° 05′, W. 63° 11′	29.79	756.7	42	5.6		n.			1		8		w	8 h'r	8 h'r	sm'h		cloudy.
S. S. Texas, St. Lawrence river *†	29.71	754.6	50	10.0	100	se.			4		6		se.	o	o	sm'h		fair.
S. S. Olbers, N. 7° 44′, W. 45° 31′	30.06	763.5	81	27.2	96	ne.			4		6		ne.	10 h'r	10 h'r	sm'h		fair.
S. S. Daniel Steinmann, N. 50° 52′, W. 26° 45′†	30.08	764.0	62	16.7		w.			6		9		w.	2 h'r	2 h'r	h'vy	w.	squally.
S. S. Adriatic, off Mine Head, Ireland*†	29.77	756.1	63	17.2		nw.			6				nw.			mod.	n.	overcast.
S. S. Celtic, New York, N.Y†	30.05	763.3	58	14.4		sw.			3		0			5 h'r	5 h'r			clear.
S. S. Germanic, N 46° 21′, W. 47° 55′ *†	30.21	767.3	51	10.6		sse.			6		7		ssw.	o	o	short	ssw.	hazy.
S. S. Republic, N. 49° 02′ W. 31° 12′*†	30.28	769.1	60	15.6		nw.			4		8		nnw.	6 h'r	6 h'r	mod.	w.	d. clouds.
S. S. Iowa, N. 42° 57′, W. 66° 22′ †	29.86	758.4	50	10.0		nnw.			5		8		nnw.	12 h'r	12 h'r	cf'd		cloudy.
S. S. Assyrian Monarch, N. 48° 00′, W. 31° 46′	30.32	770.1				nw.			5		fg.			2 h'r	2 h'r	mod.	wsw.	foggy.
Bk. Arda, N. 33° 27′. W. 22° 07′†	30.41	772.4				ne.			3		5?		ne.	o	o	mod.	ne.	clear.?
Bk. Alpheus Marshall, N. 9° 44′, W 23° 10′*†	29.92	760.0	82	27.8	91	ne.			1		4		s.	2 h'r	2 h'r	mod.	var.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 47° 00′, W. 45° 28′			50	10.0	79	e.			2		9		e; sse.	3 h'r	3 h'r	h'vy	var.	cloudy.
Bg. Abbie Clifford. N. 37° 50′, W. 66° 12′†	29.87	758.7	72	22.2		nw.			3		2		w.	½h'r	½h'r	h'vy	sw.	
Schr. Arthur Burton, Dutch Island, R. I						calm			0		2		calm	8 h'r	8 h'r	sm'h		clear
Schr. Abbie H. Gheen, off Egg Harbor, N. J			61	16.1		nw.			4									clear.
S. S. Antonio Lopez, N. 43° 35′, W. 8° 39′*	30.32	770.1	61.5	16.4	74	wnw.			4		4			3 h'r	3 h'r	mod.	wnw.	fair.
Schr. Adda Doane, N. 30° 00′, W. 64° 36′*†	30.12	765.0				ssw.			2		3		sw.	2 h'r	2 h'r	sm'h		clear.
Bk. Adelaide, N. 5° 59′, W. 29° 02′			81	27.2		sw.			2		10		ene.	14 h'r	14 h'r	mod.	sse.	raining.
Bg. Belle of the Bay, Galveston, Texas†	29.98	761.5				sse.			5		5		ssw.	o	o			fair.
Bk. Ceylon, N. 20° 42′, W. 38° 45′†	30.15	765.8	82	27.8	87	ene.			5		5		e.	light	light	r'gh	e.	squally.
Schr. Clotilde, Sandy Hook, N. J						w.			4		2		w.	7 h'r	7 h'r			clear
Schr. C. R. Flint, N. 12° 14′, W. 56° 32′†	29.99	761.7	86	30.0		ene.			3		10		ne.	4 h'r	4 h'r	sm'h	ne.	thnd'r storm.
Bk. Don Justo, N. 42° 30′, W. 64° 15′			60	15.6		nw.			5		fg.		nw.	3 h'r	3 h'r	h'vy	sse.	foggy.
S. S. D. J. Foley, N. 30° 03′, W. 73° 45′*†	30.15	765.8	83	28.3	83	w.			2		3		w.	o	o	sm'h		clear.
Bkt. David A. Preston, New York, N. Y						w.			3		o			4 h'r	4 h'r	sm'h		
Bk. Diamant. N. 45° 20′, W. 39° 28′	30.34	770.7	64.4	18.0	96	ene.			2		10		sw.	2½h'r	2½h'r	5	sw.	covered.
S. Dynomene, N. 24° 20′, W. 23° 20′	30.15	765.8	74.5	23.6	86	ene.			6		7			h'vy	h'vy	r'gh	ne.	misty.
S. David Stewart, N. 33° 51′, W. 71° 57′†	30.08?	764.0?	74	23.3		ne.			6		6		ne.			mod.	ne.	fair.
S. E. J. Spicer. N. 46° 45′, W. 12° 25′	30.25	768.3	59	15.0	100	wsw.			6		10		w.	rain	rain	mod.	nw.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.02	762.5	85	29.4		s.			2		3		s.	o	o			fine.
S. Festina Lente, off Point Metis, Canada	29.70	754.4	41	5.0		ssw.			3		10		wsw.	o	o	sm'h		overcast.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	30.00	762.0	54	12.2	80	ene.			1		1		calm	1.24	31.5			clear.
S. Gatherer, N. 42° 29′, W. 31° 20′*	30.47	773.9	72	22.2	85	sse.			4		3		sse.	o	o	sm'h	ssw.	clear.
Bg. George, N. 24° 40′, W. 69° 05′*†	30.11	764.8	80	26.7		e.			2		2			o	o	sm'h		fair.
Bk. Galeon, N. 22° 55′, W. 35° 30′ †	30.19	766.8	79	26.1		e.			4		2		e.	light	light	light	ene.	blue sky.
Bk. Grey Eagle, N. 4° 39′, W 26° 50′ *†	29.87	758.7				sw.			2		5		sw.	6 h'r	6 h'r	short	sse.	fair.
Bk. Hattie G. McFarland, New York, N. Y.†	30.01	762.2	60	15.6		nw.			4		0			10 h'r	10 h'r			clear.
S. Hedwig, N. 21° 00′, W. 36° 43′	30.19	766.9	79.5	26.4	85	ene.			5		3		ene.	o	o	3	ene.	fine.
Bk. Ibis, N. 33° 00′, W. 77° 40′*	30.05	763.3	82	27.8		wsw.			4		4		nw.	o	o	mod.	sw.	fair.
Bk. John H. Pearson, N. 36° 30′, W. 3° 11′						sw.			1					o	o	sm'h		clear.
Schr. Jas. Slater, N. 22° 25′, W. 59° 51′†	30.15	765.8				se.			3		2		calm	½h'r	½h'r	light	ene.	
Bg. Josefa, N. 45° 40′, W. 56° 15′†	29.77	750.1				sse.			8		10		sse.	3 h'r	3 h'r	r'gh	sse.	raining.
Bkt. Kryolith, N. 43° 06′, W. 63° 00′ *†	29.70	754.4				nne.			6		10			rain	rain	h'vy		hazy.
Bk. Lady Hincks, N. 25° 10′, W. 52° 26′ *†	30.20	767.1												sh'rs	sh'rs			
Bg. Lilian, N. 12° 00′, W. 58° 40′†	30.03	762.7	86	30.0		ene.			3		9			o	o	mod.	ene.	cloudy.
Bg. L. & W. Armstrong, N. 34° 06′, W. 71° 26′ *†	29.98	761.5				wnw.			2		2		wnw.	½ h'r	½ h'r	sm'h	w.	fine.
S. S. Madrid, Taganrog, Russia†	29.86	758.4	65	18.3	84	sw.			6		2		ssw.	o	o			fair.
Bk. Matilda C. Smith, N. 40° 30′, W. 52° 25′						sse.			5		4		s.	o	o	r'gh	var.	fine.
Bk. Matthias, N. 38° 31′, W. 68° 08′*†	29.95	760.7	68	20.0		nnw.			4		8		n.	½ h'r	½ h'r	3	w;nw	threatening.
Bk. National Eagle, N. 40° 38′, E 18° 45′						s.			5		8		s.	o	o	r'gh		cloudy.
Bk. Orpheus, N. 40° 07′, W. 67° 33′	29.95	760.7	62	16.7		nnw.			4		10 k		nnw.	o	o	mod.		cloudy.
S. S. Radnorshire, N. 45° 55′, W. 7° 52′						wnw.			8		10		wnw.	sq'lls	sq'lls	r'gh	wnw.	threatening.
Schr. Rollin Sanford, Milton, Fla.†	30.18	766.6				nnw.			2		5		nnw.	o	o			fair.
Bg. Rising Sun, N. 32° 16′, W. 61° 42′ †	30.13	765.3	82	27.8		ssw.			4		1		ssw.	o	o	mod.	ssw.	clear
Bk. Rosalie, N. 25° 49′, W. 21° 23′*†	30.23	767.8				e.			5		0			1¼h'r	1¼hr	mod.	ne.	clear.
Bk. Saga, Elsinore, Denmark*†	29.54	750.3	54	12.2		nne.			2		10		nne.	16 h'r	16 h'r	sm'h		cloudy
S. Salisbury, N. 38° 09′, W. 48° 08′	30.14	765.6	72.5	22.5	91	e.			3		3 k		e.	o	o	mod.	e.	clear.
Bgt. Sunlight, N. 34° 43′, W. 73° 54′†	29.98	761.5				n.			2		2			½ h'r	½ h'r	r'gh	w.	hazy.
Bk. Samuel B. Hale, N. 34° 13′, W. 47° 40′*†	30.25	768.3				wsw.			3		hz.			o	o	short	var.	clear.
Bk. Sunbeam, N. 41° 20′, W. 52° 00′ †	30 12	765.0	72	22.2	71	sse.			6		o			o	o	mod.	e.	clear.
Bk. Scud, N. 24° 17′, W. 57° 05′*†	30.15	765.8	86	30.0		se.			3		1		se.	o	o	light	nne.	fine.
Bk. St. Lawrence, N. 13° 56′, W. 56° 35′*†	29.90	759.4				e.			5				sse			long	ne.	squally.
S. S. Tower Hill, N. 42° 37′, W. 59° 50′*†	29.85	758.2				sw.			4		3		w.			mod.	wnw.	fair.
Schr. Viola Reppard, N. 35° 16′, W. 74° 35′ †	30.02	762.5	80	26.7		ne.			2		4		ne.			small	ne.	fair.
Schr. Walter L. Plummer, N. 28° —′, W. 16° 10′*†	30.25	768.3				ne.			5		2		ne.			mod.	ne.	clear.
S. S. Maasdam, N. 51° 21′, E 2° 51′	29.72	754.9	55	12.8		w.			3							sm'h		rainy.
Bk. Childwall, N. 5- 28′, W. 18° 49′*	29.92	760.0	80	26.7		s.			4		7		ssw.	o	o	light	sw.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.07	763.8	76.2	24.6	80	ne.			2		3	ne.						blue sky
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.09	764.3	70	21.1	66	ese.			5		1	e.				1	e.	blue sky
H. M. S. Opal, Ascension Island, Africa	30.05	763.3	79	26.1	82	ese.			2		6	ese.						d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	30.27	768.8	53	11.7	93	se.			2		8	se.						d. clouds.
H. P. M. S. Bengo, S. 14° 28′, E. 12° 07′	30.00	762 1	70.7	21.5	82	wnw.			2		10			5 h'r	5 h'r	2		overcast.
U. S. S. Brooklyn, S. 37° 46′, W. 45° 48′*	30.11	764.8	57	13.9	81	sw.	13	5.8			2		sw.	0.02	0.8	mod.	sw.	fair.
U. S. S. Nipsic, Montevideo, Uruguay *	30.21	767.3	57	13.9	81	e.			2		5		e.			sm'h		fair.
S. S. Sirius, S. 10° 03′, W. 35° 50′	30.08	764.0				ese.			2		2		ese.	o	o	mod.	se.	clear.
Bk. Aureola, S. 8° 20′, W. 34° 25′†	30.00	762.0	94	34.4		se.			2		2		se.	o	o	mod.	se.	clear
Bk. E. L. Pettingill, S. 33° 57′, W. 48° 12′*†	30.35	770.9	63	17.2		s.			3		o			o	o	sm'h		clear.
Bg. John Wesley, Natal, Brazil*†	29.96	761.0	79	26.1		s.			3		o			o	o			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.16	766.1				e.			2		o			o	o			clear.
S. S. Menadoza, S. 33° 41′, W. 45° 23′†	30.25	768.3				ssw.			3		8		ese.	o	o	mod	ne.	
Bk. Mohican, S. 30° 10′, W. 25° 20′	29.93	760.2	68.5	20.3		nw.			4		8		wsw.	o	o	long	ssw.	cloudy.
Bk. Pilgrim, S. 20° 27′, W. 2° 10′*†	30.20	767.1				se.			1		3		ese.	o	o	mod.	ese.	clear.
Bgt. Willie, S. 26° 45′, W. 43° 55′*†	30.07	763.8	78	25.6		calm			0		o			o	o	mod.	ne.	clear.
Bk. Achille F, S. 29° —′, W. 40° 30′†	30.09	764.3	70	21.1		nw.			2		4		nw.	o	o	light	ne.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.17	766.3	70	21.1	90	e.			2		o							blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.94	760.5	84	28.9	87	se.			3		10							d. clouds.
H. M. S. Cleopatra, N. 26° 24′, E. 120° 42′	29.94	760.5				ne.			4		4					4	ne.	d clouds.
H. M. S. Flying Fish, N. 37° 40′, E. 123° 05′	30.09	764.3	68	20.0	84	sse.			2		o					1	s.	blue sky.
H. M. S. Magpie, N. 4° 14′, E. 112° 55′	29.88	758.9	82.8	28.2	79	wsw.			2		o					3	sw.	blue sky.
H. M. S. Zephyr, N. 32° 44′, E. 128° 35′	30.02	762.5	72	22.2		calm			0		6							d. clouds.
H. P. M. S. Tamega, Canton, China	29.99	761.8	77.9	25.5	84	calm			0		0			4 h'r	4 h'r			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.25	768.3	65.5	18.6	73	e.			3		o			o	o			clear.
U. S. S. Essex, N. 32° 22′, E. 128° 25′	30.00	762.0	75	23.9	86	nne.			4		8					sm'h	nne.	cloudy.
U. S. S. Hartford, Punta Arenas, Co-ta Rica *.	29.83	757.7	77	25.0	91	nne.			1		5			o	o			fair.
U. S. S. Juniata, N. 18° 03′, E. 114° 47′	29.98	761.5	81	27.2	100	ese.			3		2		e.	h'vy	h'vy	long	se.	fair.
U. S. S. Monocacy, Ross Island, Corea	30.09	764.3	65	18.3	84	nnw.			2		2		calm					clear.
U. S. S. Pensacola, N. 29° 39°, E. 146° 11′ *.	30.00	762.0	80	26.7	82	e.			2-3		2		e.	mod.	mod.	long	sw.	clear.
U. S. S. Ranger, Mare Island, Cal			61	16.1	77	sw.			1		o			o	o			clear.
U. S. S. Richmond, Yokohama, Japan	30.23	767.8	68	20.0	74	ene.			2		2		e.	o	o			clear.
S. S. Oceanic, N. 39° 21′, W. 147° 14′	30.50	774.7	65	18.3	100	sw.			4		5			o	o	3	sw.	clear.
S. S. City of Chester, San Francisco, Cal†	29.68	753.9	54	12.2	80	calm			0									clear.
S. S. Dakota, N. 47° 43′, W. 124° 55′			59	15.0	82	nnw.			4		o			o	o	mod.	nw.	foggy.
S. S. Orizaba, N. 32° 40′, W. 117° 14′*†	29.72	754.9	63	17.2	78	s.			5				sw.	o	o	long	sw.	cloudy.
S S State of California, Portland, Oregon†	29.95	760.7	50	10.0	87	calm			0		5		nw.					fair.
S. S. Queen of the Pacific, N. 42° 52′, W. 124° 50′†	29.95	760.7	57	13.9	94	n.			7		8			3 h'r	3 h'r	h'vy	nw.	cloudy.
S. S City of New York, N. 12° 45′, W. 161° 00′†	30.02	762.5	80	26.7	82	e.			5		o			o	o	mod.	e.	clear.
S. S. City of Pekin, Hong Kong, China†	30.01	762.2	78	25.6	86	ene.			2		10		ne.	o	o			overcast.
S. S. City of Tokio, N. 35° 40′, E. 139° 20′			63	17.2	89	ne.			3		10		ne.	12 h'r	12 h'r	sm'h		rainy.
S.S. City of Rio de Janeiro, N. 37° 32′, W. 173° 57′†	30.31	769.9	62	16.7	66	ne.			5		2		ne.	o	o	mod.	nne.	clear.
S. S. Colima, N. 31° 35′, W. 119° 09′†	29.79	756.7	61	16.1	71	wnw.			5		4		nw.	o	o	r'gh	nw.	clear.
S. S. Granada, N. 8° 44′, W. 84° 04′†	29.87	758.7	79	26.1	86	nw.			1		8		nw.	1 h'r	1 h'r	light	sw.	

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. San Blas, N. 7° 36′, W. 79° 43′†	29.92	760.0	77	25.0	.....	baff	.....	.....	3	.....	10	.....	w.	rain	rain	mod.	.....	raining.
S. E. B. Sutton, N. 10° —′, W. 119° 00′*†	29.88	758.9	78	25.6	95	sw.	.....	.....	6	.....	10	.....	sw.	0	0	h'vy	var.	squally.
S. Storm King. N. 6° 55′, W. 113° 48′*†	29.95	760.7	.....	.....	.....	s.	.....	.....	3	.....	3	.....	s.	0	0	sm'h	var.	clear.
U. S. S. Palos, Canton, China	29.98	761.5	76	24.4	82	calm	.....	.....	0	.....	8	.....	calm	.....	.....	.....	.....	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.94	760.5	79.3	26.3	87	sse.	.....	.....	4	.....	9	.....	.....	.....	.....	sm'h	.....	showery.
H. M. S. Mutine, S. 8° 20′, W. 80° 00′	29.91	759.7	66	18.9	.....	sse.	.....	.....	1	.....	10	.....	.....	.....	.....	1	sse.	overcast
H. M. S. Nelson, Sydney, N. S. W	29.45	748.0	51	10.6	86	w	.....	.....	1–3	.....	0	.....	.....	.....	.....	.....	.....	
U. S. S. Iroquois, Callao, Peru	30.06	763.5	62	16.7	88	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, S. 32° 04′, W. 72° 04′*	30.01	762.2	58	14.4	88	n.	.....	.....	3	.....	8	.....	.....	.....	.....	sm'h	n.	cloudy.
U. S. S. Onward, Callao, Peru*†	30.13	765.3	61	16.1	88	se.	.....	.....	3	.....	10	.....	se.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, S. 23° 32′, W. 70° 41′*	30.12	765.0	62	16.7	88	e.	.....	.....	1	.....	5	.....	ene.	.....	.....	sm'h	.....	fair.
S. S. Australia, Sydney, N. S. W*†	30.09	764.3	68	20.0	79	nnw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Sydney, Sydney, N. S. W *†	30.14	765.5	65	18.3	68	n.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	clear.
Bk Godeffroy, S. 53° 49′, W. 80° 54′	30.00	762.0	41.2	5.6	91	wnw.	.....	.....	3	.....	10	.....	.....	6 h'r	6 h'r	long	var.	raining.
S. Sovereign of the Seas, S. 16° 49′, W. 92° 04′*†	30.15	765.8	66	18.9	94	se	.....	.....	1	.....	10	.....	sw.	0	0	h'vy	sw.	cloudy.
S. David Crockett, S. 56° 53′, W. 73° 49′*	29.99	761.7	41	5.0	82	w.	.....	.....	4	.....	8	.....	w.	5 h'r	5 h'r	long	w.	showery.
S. Armenia, S. 5° 40′, W 125° 00′*	29.83	757.7	77	25.0	86	e.	.....	.....	4	.....	2	.....	e.	0	0	mod.	se.	clear.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.04	763.0	66	18.9	.....	se.	.....	.....	3	.....	.....	.....	.....	.....	.....	mod.	sse.	overcast.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.99	761.7	79	26.1	86	wnw.	.....	.....	1	.....	6	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761.7	78	25.6	91	var.	.....	.....	.....	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M S. Woodlark, Shat el Arab R., Turkey	29.97	761.2	92.5	33.6	49	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Benledi, N. 30° —′, E. 32° 30′	.....	.....	.....	.....	.....	ne.	.....	.....	2–3	.....	0	.....	.....	0	0	sm'h	.....	
Bk. Bore, S. 27° 18′ E. 43° 59′*†	30.62	777.7	77	25.0	.....	sse.	.....	.....	3	.....	0	.....	.....	0	0	long	sw.	clear.
S. Frank N. Thayer, S. 22° 23′, E. 60° 12′*†	30.22	767.6	75	23.9	77	ese.	.....	.....	3	.....	5	w.	.....	0	0	mod	e.	d. clouds
Bk. Great Surgeon, S. 39° 28′. E. 38° 46′*†	30.32	770.1	56	13.3	.....	sw.	.....	.....	6	.....	4	.....	sw.	2 h'r	2 h'r	r'gh	sw.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 4, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ALGERIAN.																			
Nemours			30.13	765.4	70.9	21.6	84	n.			2		6			0	0	cloudy	Roziere.
Algiers			30.00	761.9	72.0	22.2	38	wsw.			6		0			0.083	2.1	clear	Thève.
La Galle			29.91	759.6	61 9	16.6	81	nw.			4		5			0.217	5.5	cloudy	Fonfréde.
Tunis			29.96	761.0	68.0	20.0	62	nnw.			4		5			0.217	5.5	cloudy	Delord.
Saida			30.13	765.3															Pérès.
Tebessa			30.02	762.6	54.7	12.6	96	n.			1		4			0.906	23.0	cloudy	St. Martin.
Geriville					53.6	12.0	54	n.			2		1			inap.	inap.	very fair	Forfert.
Laghouat			30.07	763.7	70.5	21.4	29	nw.			2		3			0.165	4.2	pretty fair	Abraham.
Biskra			30.03	762.8	76.3	24.6	40	ne.			1		4			0.512	13.0	cloudy	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.75	755.6	53.0	11.7	87	w.	6	2.7			7 k			0.340	8.6	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.55	750.6	29.64	752.8	58.6	14.8	80	n.	13	5.8			2			0.13	3.3	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.21	741.9	29.75	755.6	61.5	16.4	41	sw.			4		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.89	733.9	29.65	753.0	56.8	13.8	65	e.	6.3	2.8			5			0	0		Dr. Wierzbiski
Eperies	28.83	732.2	29.69	754.1	57.6	14.2	70	calm			0	cs	3 s		n.	0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.35	720.1	29.74	755.5	60.4	15.8	51	nw.			5		2			0.146	3.7		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.16	715.3	29.47	748.5	56.8	13.8	77	ene.			2		1			0.138	3.5	clear	The Staff.
Lemberg	28.76	730.4	29.73	755.1	55.8	13.2	72	e.			2		9			0	0		Dr. T. Stanecki.
Pola	29.63	752.7	29.74	755.4	63.5	17.5	63	ssw.			5		8			0.563	14.3		I. R. Hydrographic Office.
Szathmar	29.25	743.0	29.71	754.6	56.3	13.5	82	w.			3		4			0.492	12.5		Joseph Midlinszky, S. J
Szegedin	29.48	748.9	29.76	755 9	59.7	15.4	68	w.			1		9			0.654	16.6		Karl Stuncel.
Trieste	29.68	753.9	29.78	756.4	61.2	16.2	70	s.			1		10			0.181	4.6		Royal Academy.
Vienna	28.91	734.2	29.61	752.1	55.6	13.1	81	se.			3		8			0.063	1.6		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.83	757.7	29.93	760.2	48.0	8.9	97	nw.	19	8.5			5			0.005	0.1	squally	W. Boswell.
Armagh, Observatory	29.78	756.4	30.02	762.5	51.1	10.6	71	n.	4	1.8			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.87	758.7	52.3	11.3	66	nnw.	23	10.3			6					d. clouds	John Hartnup.
Bolton, Sharples	29.29	744.0	29.82	757.4	50.4	10.2	65	n.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.80	756.9	50.7	10.4	71	ne.			6		8			0.01	0.3	d. clouds	McLandsborough & Preston.
Cardington	29.53	750 0	29.64	752.8	53.4	11.9	68	n.			9.0		8					overcast	John McLaren.
Chatham, School M. E.	29.32	744 7	29.49	749.0	48.1	8.9	96	n.			2		10					raining	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.69	754.1	29.91	759.7	53.9	12.2	74	nw.			6		5					d. clouds	The Staff.
Fort Napier, Natal	27.85	707.4	30.08	764.0	89.0	31.7	63	nw.			2							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.72	754.9	29.95	760.7	79.0	26.1	91	sw.			3		1					raining	J. W. Smith.
Galway, Queen's College	29.97	761.2	30.01	762.2	52	11.1	73	nw.			1		3			0.01	0.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.18	766.6	30.23	767.8	67.0	19.4	89	w.			4		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.74	755.4	29.95	760.7	52.1	11.2	53	nw.			2		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.36	745.7	29.53	750.0	50.0	10.0	82	nnw.			7		10					raining	The Staff.
Guernsey	29.51	749.5	29.80	756.9	55.0	12.8	62	nnw.			4		7					d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.54	750.3	29.58	751.3	53.2	11.8	61	n.	34	15.2			9					threatening.	The Staff.
Leicester, Museum	29.44	747.8	29.69	754.1	50.5	10.3	81	n.			5		10					raining	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	73.2	22.9	91	nw.			3		9			0.09	2.3	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.13	765.3	85.5	29.7	70	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.25	742.9	29.78	756.4	51.4	10.8	78	nne.			4		10					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.46	748.3	29.69	754.1	52.3	11.3	66	nnw.			7		6					d. clouds	The Staff.
Plymouth	29.77	756.1	29.85	758.2	55.9	13.3	69	nnw.			5		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.84	757 9	29.94	760.5	47.7	8.7	76						3					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.80	756.9	29.86	758.4	79.2	26.2	53	calm			0		7					misty	W. H. Lyne.
Sheffield	29.51	749.5	29.79	756.7	51.3	10.7	98	n.			2		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	29.89	759.2	29.92	760.0	55.2	12.9	67	n.			4		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.85	758.2	51.0	10.6	69	n.	17	7.6			6			blank	blank	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					53.7	12.1	71	n.			3.3		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.95	760.7	30.02	762.5	57	13.9	69	nw.			7		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.08	764.0	30.11	764.8	54.5	12.5	67	n.	8	3.6			2					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.57	751.1	29.96	761.0	70.9	21.6	80	sw.	7.4	3.3			10 n		sw.	0.76	19.3	drizzling	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	29.73	755.1	29.77	756.1	38.0	3.3		sw.	18	8.0		5 ck	0	w.		inap.	inap.	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.79	756.7	39	3.9	65	w.	14	6.3		0	2 s			0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.74	755.4	29.81	757.2	37	2.8	69	w.	12	5.4		5 ck	5 k	w.	w.	0.01	0.3	fair	G. A. Blair.
Cornwall, Ontario	30.03	762.7	30.23	767.8	31.0	— 0.6	79	nw.			2	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	29.69	754.1	29.74	755.4	37.0	2.8		nw.			3	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T *	27.44	697.0			28	— 2.2	66	s.	2	0.9		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.78	756.4	29.81	757.2	36	2.2	89	w.	38	17.0		2 cs	5 ks	w.	w.	0.32	8.1	fair	J. McWilliams.
Fort Garry, Manitoba*	29.20	741.7	30.08	764.0	27	— 2.8	88	s.	17	7.6			10 n			0	0	misty	James Stewart.
Fredericton, N. B	29.88	758.9	29.95	760.7	35.2	1.8	70	nw.	13	5.8		9 c	0			0.060	1.5	fair	Prof. Thos. Harrison
Grand Manan, N. B	29.96	761.0	30.01	762.2	40	4.4	79	w.	17	7.6		2 k	0	n.		0.02	0.5	fair	J. Chipman Seeley
Granton, Ontario	29.29	744.0	30.46	773.7	28.0	— 2.2	100	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.79	756 7	29.93	760.2	40	4.4	73	nw.	10	4.5		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.94	760.5	30.35	770.9	32.9	0.5	90	sw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.93	760.2	30.28	769.1	32	0.0	78	nw.	8	3.6		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.74	755.4	29.78	756.4	45.0	7.2	72	w.			5	2 k	0	w.		0	0		C. H. Rigby.
London, Ontario	29.56	750.8	30.53	775.4	27.8	— 2.3	98	calm			0	1 c	2 ks			0	0	fair	E. B. Reed.
Medicine Hat, N. W. T	27.45	697.2	29.77	756.1	35	1.7	56	calm	0	0		0	0			0	0	smoky	John Ewart.
Minnedosa, N. W. T	28.66	712.7	30.03	762 7	31	— 0.6	92	ne.	3	1.3			sk.			0	0	dense smoke	Rev. J. M. Wellwood.
Montreal, Quebec*	29.98	761.5	30.20	767.1	35	1.7	75	w.	13	5.8		0	0			0.07	1.8	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.02	762.5	30.25	768.3	31.3	— 0.4	89	w.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.62	752.3	30.35	770.9	32	0.0	78	nw.	8	3.6		5 k	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.58	751.3	30.35	770.9	33.7	0.9	87	nw.			1	5 ck	0			0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.55	750.6	30.26	768.6	46	7.8	83	e.	6	2.7			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.66	753.4	30.39	771.9	33	0.6	100	nw.	3	1.3		0	0			0	0	clear	R. Morgan
Port Stanley, Ontario	29.72	754.9	30.41	772.4	28	— 2.2	96	n.	3	1.3		5 ck	0	nw.		0	0	fair	M. Payne.
Qu Appelle, N. W. T	27.65	702.3	29.94	760.5	38	3.3	49	calm	0	0		0	0			0	0	smoky	Leslie Gordon.
Quebec, Quebec*	29.66	753 4	30.03	762.7	34	1.1	85	s.	16	7.2		8 k	0	w.		0.16	4.1	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.82	757.4	30.30	769 6	32	0.0	78	w.	7	3.1			10 ks		nw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	29.85	758.2	29.91	759.7	36	2.2	80	nw.	9	4.0		0	0			0.04	1.0	clear	
St. John, N. B	29.81	757.2	29.96	761.0	36.2	2.3	76	w.	20	8.9		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.52	749.8	29.78	756.4	48	8.9	85	w.			2	0	2 s			0.72	18.3	clear	J. Higgins.
St. Pierre, N. F			29.65	753.0	49.3	9.6		calm			3					0.039	1.0		The Commandant.
Saugeen, Ontario*	29.62	752.3	30.35	770.9	47	8.3	83	nw.	13	5.8			10 ks			0	0	cloudy	
Stratford, Ontario	29.13	739.9	30.42	772.7	28.7	— 1.8	97	calm	0	0		2 c;cs	0			0	0	blue sky	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian—Continued.																			
S. W. Point, Anticosti	29.33	745.0	29.37	746.0	35	1.7	96	nw.			7		10 n		nw.	0.34	8.6	stormy	Miss Grace Pope.
Sydney, C. B.	29.68	753.9	29.74	755.4	45	7.2	68	w.	16	7.2		0	0			0	0	clear	[illegible], C. E.
Toronto, Ontario*	29.99	761.7	30.39	771.9	34	1.1	89	n.	6	2.7		0	8 ks		w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.33	745.0	30.45	773.4	31.1	— 0.5	84	w.	5	2.2		2 cs	0			0	0	hazy	Prof. N Wolverton, M.A.
Yarmouth, N.S.*	29.94	760.5	30.01	762.2	42	5.6	65	nw.	25	11.2		0	2 k		nw.	0.01	0.3	fair	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.21	767.3	63.0	17.2	91	calm	24.1	10.8			9 n			0.010	0.3	hazy	I. Garfelt.
Springbok Fontein	27.91	708.9			76	24.4	35									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.3	30.01	762.3	56.7	13.7	86	e.			2		10					misty	Samuel Redolez.
Iquique	29.96	761.0	29.99	761.7	62.1	16.7	73	sw.			3							cloudy	Rafael Moreno.
Niebla	29.50	749.2	29.60	751.9	47.8	8.8	86	nw.			1	0	4		w.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.91	759.8	30.00	762.0	56.7	13.7	79	nw.			3		10 n		ne.			cloudy	Manuel Tobar.
Punta Corona	29.83	757.7	30.02	762.5				n.			2		10			0.268	6.8	cloudy	Francisco Alvarado.
Valparaiso	29.93	760.3	30.08	763.9	57.2	14.0	88	ne.			2	0	4					clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.34	643.6																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.08	764.1	30.11	764.7	59.5	15.3	94	n.	3.8	1.7			0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.55	750.5	29.60	751.7	53.6	12.0	72	sse.	11	5			3						Oversergent Fischer.
Fanoe	29.55	750.5	29.57	751.0	52.3	11.3	71	ene.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.78	756.3	29.82	757.4	33.3	0.7	80	s.			3		8						S. Kleinschmidt.
Jacobshavn, Greenland	29.53	750.1	29.58	751.3	32.7	0.4		s.			6		10					snowing	
Stykkisholm, Iceland	29.72	754.9	29.76	756.0	44.6	7.0	81	s.			6		10					raining	A. O. Thoriacius.
Thorshavn	29.92	760.0	29.95	760.6	45.0	7.2	83	sw.	13	6			7						Overloerer Bergh.
Vestervig	29.50	749.3	29.59	751.6	50.5	10.3	72	ne.			2		1						Loerer Oesterbol.
Egyptian.																			
Cairo	29.85	758.1			91.8	33.2		e.	7.8	3.5			0			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.21	742.0	29.86	758.5	50.9	10.5	90	wsw.			2		10			0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.13	740.0	29.69	754.0	50.4	10.2	97	se.			4		5		nw.	0.102	2.6	cloudy	M. Nicot, Director.
Avignon, Normal School	29.65	753.0	29.72	755.0	60.8	16.0	77	sw.			1		8		s.	0.087	2.2	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.03	737.4	29.58	751.4	50.7	10.4	60	wsw.			3		8 kn		wnw.	0.559	14.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.18	741.1	29.44	747.8	48.4	9.1	89	w.			2		10		wnw.	0.421	10.7	raining	M. Frère Eugène Marlè.
Besançon, Normal School	28.78	731.0	29.66	753.3	46.4	8	97	s.			1		10		s.	0.16	4.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.60	751.7	29.85	758.3	55.2	12.9	69	nw.			1		8			0.480	12.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.11	739.4	29.67	753.5	47.3	8.5	86	w.			6		10		w.	0.51	13.	raining	M. Malet, Director.
Brest, Naval Observatory	29.71	754.7	29.96	760.9	55.4	13.0	74	n.			4		6		n.	0.256	6.5		M. de Kermarée, Dir.
Caen, Normal School	29.52	749.9	29.60	751.7	53.2	11.8	78	nw.			4		10		n.	0.134	3.4	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.19	741.4	29.50	749.4	47.7	8.7	83	s.			6		5		w.	0.591	15.0	cloudy	M. Jadot, Director.
Charleville, Normal School	28.91	734.4	29.46	748.3	46.8	8.2	72	sw.			4		10			0.669	17.0	raining	M. Noel, Director.
Clermont-Ferrand Obs'y	28.38	720.9	29.72	754.9	55.8	13.2	33	sw.			2		8			0.528	13.4		M. Allnard, Director.
Cluny, Normal School	28.86	733.1	29.71	754.7	53.1	11.7	60	sw.			6				sw.	0.042	16.3		M. de Villemontée, Dir.
Commercy, Normal School	28.68	728.5	29.55	750.6	48.2	9	88	w.			6		8 kn	w.	w.	1.18	30.	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.27	692.7	29.83	757.7	45.0	7.2	83	calm			0		10 n			0.83	21.		M. Jarach, Director.
Gréasque, du Rhone	28.62	727.0	29.72	755.0	58.1	14.5	78	w.			4		10		sw.	0.079	2.0	raining	M. Kina, Director.
Grenoble, Normal School	29.02	737.0	29.79	756.6	47.5	8.6	81	ene.			1		kn		e.	0.28	7.		M. Ablard, Directoor.
Guéret, Normal School	28.19	715.9	29.76	756.0	47.3	8.5	72	w.			6		n		w.	0.965	24.5		M. Delorme, Dir.
Lamballe, Normal School	29.42	747.3	29.70	754.3	53.6	12	95	nw.			6		5		nw.	0.47	12.	cloudy	M. Olliitrault, Director
Lescar, Normal School	29.32	744.7	29.88	759.0	56.3	13.5	77	nne.			1		10			0.386	9.8	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.77	756.2	29.87	758.8	59.0	15.0	52	nnw.			3		5	n.	n.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.68	728.5	29.73	755.1	53.6	12.0	45	nw.			2		8 kn		w.	0.185	4.7	very cloudy	M. André, Director
Mans, Normal School	29.39	746.5	29.70	754.3	52.7	11.5	86	wnw.			4		8		wnw.	0.532	13.5	very cloudy	M. Richard, Director
Marseille, Observatory	29.48	748.9	29.76	755.8	59.5	15.3	85	wsw.			2–3		10		wsw.	0.280	7.1		M. Stephan, Director.
Montlouis	24.85	631.3	29.70	754.3	38.3	3.5	75	se.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.61	752.2	29.74	755.0	58.6	14.8	61	ssw.			2		10	wnw.				light rain	M. Galzin, Director.
Nancy	28.78	731.1	29.56	750.8	46.0	7.8	91	ssw.			2		kn			0.311	7.9		M. Hasse, Director.
Nantes, Observatory	29.68	753.8	29.84	757.9	56.5	13.6	57	nw.			2		8n; kn; k		nw.	0.669	17.0		M. Larocque, Director.
Perpignan, Observatory	29.72	754.9	29.83	757.7	59.0	15.0	66	nw.	15.0	6.7			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.5			25.2	— 3.8		w.			4–6		5			0.976	24.8	cloudy	M. Vausseuat, Director.
Privas, Normal School	28.72	729.6	29.78	756.5	62.8	17.1	26	w.			1		2	nw.	nw.	0	0	slightly cl'dy	M. Taillieu.
Puy de Dôme Obs'y, Summit	24.80	630.0			31.3	— 0.4	96	wnw.			8		5 k		wnw.	0.472	12.0		M. Allnard.
Rochefort, Naval Obs'y	29.78	756.3	29.81	757.1	59.7	15.4	64	wnw.			2		2		wnw.	0	0	¼ covered	Lt. E. Decanne, Director.
Roche-sur-Yon, N. School	29.59	751.6	29.80	757.0	56.1	13.4	100	nw.			2		2		nw.	0.059	1.5	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.75	704.9	29.92	759.9	49.6	9.8	97	w.			8		10		e.	0.63	16.	covered	M. Seger, Director.
Rouen, Normal School	29.47	748.6	29.52	749.8	50.7	10.4	90	w.			1		10	nnw.		0.622	15.8	covered	M. Mouillot, Dir.
St. Lô	29.61	752.2	29.76	755.9	50.0	10	93	nw.			2		5		n.	1.193	30.3	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.36	745.8	29.53	750.0	48.0	8.9	82	sw.			2		8	wnw.	w.	0.425	10.8	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.21	741.8	29.93	760.1	50.0	10.0	86	wsw.			2		10	nw.		0.157	4.0	covered	M. Baillard, Director.
Tours	29.52	749.9	29.70	754.4	52.9	11.6	75	w.			1		5	w.	nw.	0.559	14.2	rainy	M. de Tastes.
Versailles, Observatory	29.06	738.2	29.56	750.7	49.6	9.8	81	w.			2		10			0.358	9.1	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.80	756.8	29.95	760.6	54.1	12.3	93	n.	7.8	3.5			10 kn		nw.	1.520	38.6	raining	M. Cartier, Director.
German.																			
Ansbach	28.15	715.0	29.61	752.0	43.9	6.6	85	sw.			2		10	sw.		0.122	3.1		Prof. Jnedt.
Bamberg	28.71	729.2	29.54	750.3	48.4	9.1	77	sw.			1		10 k		w.	0.138	3.5		Prof. Dr. Hoh.
Berlin	29.42	747.2	29.56	750.8	55.4	13.0	60	s.			2		10			0.020	0.5		Dr. Lensch.
Breslau	29.12	739.6	29.64	752.9	58.5	14.7	50	se.			4		3			0	0		Royal University Obs'y.
Carlsruhe	29.17	740.9	29.63	752.5	44.2	6.8	90	sw.			3		10	sw.		0.650	16.5	raining	Albert Senz.
Cassel	28.80	731.5	29.51	749.6	49.6	9.8	74	sw.			4		8	s.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.18	741.2	29.54	750.4	47.8	8.8	66	sw.			2		9			0.331	8.4		Physical Society.
Friedrichshafen	28.28	718.2	29.70	754.4	44.6	7.0	79	sw.			8		10	wsw.		0.043	1.1		Wilhelm, Chief Tel.
Hamburg	29.43	747.4	29.52	749.7	49.1	9.5	88	ene.			1		10			0.012	0.3		E. Preller.
Kiel	29.51	749.5	29.52	749.9	50.4	10.2	79	ese.			2		10			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.12	739.7	29.54	750.2	55.8	13.2	62	ssw.			3		9	ssw.		0.138	3.5	sprinkling	H. Leppig, Asst.
Magdeburg	29.32	744.8	29.51	749.5	53.8	12.1	66	sse.			2		10	s.		0.004	0.1		Weather Observatory.
Memel	29.63	752.6	29.68	753.8	54.3	12.4	78	nw.			4		7 k						Issermann.
Munich	27.77	705.4	29.61	752.0	51.3	10.7	66	nw.			4		10	nw.		0	0		Central Station.
Neufahrwasser	29.65	753.2	29.67	753.6	57.6	14.2	57	sw.			2		1			0	0		A. Lothes.
Neustadt, Palatinate	29.00	736.7	29.52	749.8	48.4	9.1	75	s.			1		3	sw.		0.224	5.7		Dicknether.
Stuttgart	28.64	727.5	29.53	750.1	49.6	9.8	64	w.			2		9	w.		0.067	1.7		Prof. Dr. Schoder.
Wustrow	29.50	749.2	29.52	749.9	54.1	12.3	72	se.			3		10 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.58	751.3	29.95	760.6	85.3	29.6		s.			1.5		7			0	0	smoky	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.81	757.1	29.86	758.4	86.6	30.3	71	wsw.	25.0	11.2			0			0	0	blue sky	
Deesa	29.34	745.2	29.80	757.0	88.4	31.3	59	sse.	1.0	0.4			6	s.		0	0	d. clouds	
Bombay	29.84	758.0	29.88	759.0	83.3	28.5	83	wsw.	6.0	2.7			9	sw.	wsw.	0	0	d. clouds	
Poona, Yarrowda	28.02	711.6	29.85	758.3	84.3	29.1	54	nw.	4.0	1.8			9			1.13	28.7	d. clouds	
Trichinopoly	29.58	751.2	29.85	758.3	86.5	30.3	61	wnw.	0.2	0.1			10			0	0	overcast	
Bellary	28.34	719.8	29.79	756.7	84.0	28.9	63	se.					10			0	0	gloomy	
Belgaum	27.36	695.0	29.92	759.9	72.8	22.7	92	wsw.	6.0	2.7			10	e.	w.	1.62	41.1	d. clouds	
Lahore	29.06	738.1	29.79	759.7	88.1	31.2	48	calm	0	0			0			0	0	blue sky	
Roorkee	28.86	733.1	29.75	755.5	88.2	31.2	28	w.	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.24	742.6	29.78	756.5	95.1	35.1	23	w.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.78	731.1	29.81	757.2	88.5	31.4	43	e.	4.0	1.8			2	w.		0	0	d. clouds	
Jubbulpore	28.51	724.2	29.85	758.2	87.1	30.6	46	ne.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.40	746.8	29.78	756.3	89.1	31.7	58	nnw.	4.0	1.8			0			0	0	blue sky	
Allahabad	29.48	748.9	29.79	756.7	84.5	29.2	56	calm	0	0			0			0	0	blue sky	
Patna	29.58	751.3	29.76	755.9	87.0	30.6	60	wnw.	2.3	1.0			2	wnw.	wnw.	0	0		
Hazaribagh	27.80	706.2	29.60	756.8	82.5	28.1	55	wnw.	5.6	2.5			0			0	0	blue sky	
Cuttack	29.73	755.1	29.81	757.2	85.0	29.4	79	calm	0	0			2			0	0	d. clouds	
Calcutta, Alipore	29.76	755.8	29.78	756.4	84.8	29.3	83	wsw.	2.0	0.9			1			0	0	d. clouds	
Dhubri	29.64	752.8	29.75	755.7	83.3	28.5	72	calm	0	0			0			0	0	blue sky	
Chittagong	29.71	754.6	29.80	756.9	82.2	27.9	86	wsw.	1.5	0.7			3			0	0	d. clouds	
Sibsagar	29.46	748.2	29.79	756.6	83.7	28.7	80	ne.	2.0	0.9			5	e.	e.	0	0	d. clouds	
Jeypore	28.40	721.5	29.82	757.3	92.1	33.4	29	n.	7.0	3.1			2		n.	c	0	d. clouds	
Zanzibar	30.07	763.8			79.3	26.3	79	wnw.	1.9	0.8			7		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.35	745.5	29.76	755.8	56.7	13.7	67	calm	0	0			10			0.429	10.9		Prof. Giovanni Clodig.
Milan	29.11	739.3	29.62	752.4	54.0	12.2	71	e.	11.2	5.0			10	sw.		0	0		Prof. G. V. Schiapparelli
Padua	29.60	751.9	29.71	754.7	54.0	12.2	83	ne.	8.7	3.9			10			0.244	6.2		Prof. Dott. Lorenzoni.
Moncalieri	28.73	729.6	29.63	752.6	53.2	11.8	67	nne.	3.1	1.4			8	ne.		0	0		Prof. F. F. Denza.
Genoa	29.44	747.7	29.63	752.6	63.3	17.4	63	sw.	21.0	9.4			8	sw.		0.276	7.0		Prof. G. M. Garibaldi.
Mondovi	27.78	705.6	29.70	754.3	50.2	10.1	74	nw.			6		7			0	0		Prof. D. C. Bruno.
Pesaro	29.72	754.8	29.76	756.0	66.4	19.1	59	w.	9.4	4.2			9	sw.		0.232	5.9		Prof. Luigi Guidi.
Florence	29.51	749.5	29.76	755.9	65.3	18.5	62	sw.			2		8			0.181	4.6		Prof. Costantino Pittei
Leghorn	29.61	752.1	29.70	754.3	63.7	17.6	61	s.	20.6	9.2			10	sw.		0.197	5.0		Prof. P. Monte.
Rome	29.67	753.7	29.85	758.1	67.5	19.7	53	se.	7.4	3.3			9			0.083	2.1		Prof. P. Tacchini.
Lecce	29.65	753.2	29.91	759.6	69.8	21.0	77	e.	7.4	3.3			10	sse.		0.213	5.4		Prof. C. de Giorgi.
Cosenza	29.04	737.6	29.92	759.9	73.4	23.0	65	sw.	2.5	1.1			10	w.		0.118	3.0		Prof. D. Conti.
Cagliari	29.73	755.1	29.92	759.9	67.6	19.8	57	nw.			2		3			0	0		Prof. A. Pacinotti.
Palermo	29.66	753.3	29.91	759.6	67.3	19.6	86	calm	0	0			10			0.079	2.0		Prof. G. Cacciatore.
Syracuse	29.91	759.7	29.95	760.8	70.2	21.2	80	ssw.	7.4	3.3			10	sw.		0.354	9.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.40	746.8	29.92	759.9	63.0	17.2	75	sw.	1.3	0.6			10	w.		0.535	13.6		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.96	761.1	29.99	761.7	60.7	15.9	95	calm			0		10 k			0.047	1.2	cloudy	H. Hattori.
Awomori	29.96	761.0	29.99	761.7	56.3	13.5	89	se.	2.9	1.3			10s;ks			0	0	overcast	K. Ogawa
Hamamatsu	29.78	756.4	29.88	758.9	64.3	17.9	98	nw.			2		10 n			2.598	66.0	raining	Sekigawa & Yamazaki.
Kagoshima	29.88	759.0	29.89	759.3	67.0	19.4	78	n.			2		10 s			1.146	29.1	overcast	G. Miyanohazu.
Kanazawa	29.84	757.9	29.95	760.6	61.1	16.2	93	ese.	0.8	0.4			10 n			0.596	15.1	raining	S. Endo.
Kioto	29.76	755.8	29.93	760.2	61.9	16.6	95	nnw.	1.1	0.4			10 n			0.660	16.8	light rain	M. Tojima.
Kochi	29.83	757.7	29.85	758.2	67.0	19.4	79	w.	7.1	3.1			10 s			1.92	48.9	overcast	K. Kusunose.
Miasaka	29.89	759.1	29.91	759.8	64.3	17.9	96	ene.			1		10 s		ne.	0.626	15.9	overcast	K. Masusaki
Miyako	29.92	760.0	30.03	762.8	58.5	14.7	91	wsw.	2.1	0.9			10 s			0.464	11.8	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.71	754.6	29.91	759.7	66.1	18.9	85	ne.	1.2	0.5			10 s			0.310	7.9	overcast	S. Takehayasu.
Niigata	29.95	760.7	29.99	761.7	59.6	15.3	96	se.	1.1	0.4			10 n			0.635	16.6	light rain	Satoo & Tomikawa.
Nobiru	30.01	762.1	30.02	762.5	61.8	16.6	93	n.	7.0	3.1			10 s			0.575	14.6	covered	Yoslino & Midzushina.
Numazu	29.88	758.9	29.91	759.8	62.1	16.7	95	nnw.			2		10 n			3.929	99.8	raining	K. Kaneda.
Osaka	29.92	760.0	29.94	760.5	62.1	16.7	96	e.	9.0	4.0			10 n			1.075	27.2	light rain	H. Omura.
Sakai	29.91	759.8	29.92	760.0	63.6	17.6	93	sw.			2		10 ks		w.	1.279	32.5	cloudy	Yamawchi & Sakamoto.
Shimonoseki	29.80	756.8	29.94	760.5	64.0	17.8	94	calm			0		10 ks		e.	0.449	11.4	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.87	758.8	29.95	760.7	59.3	15.2	99	nnw.	11.2	5.0			10 n			2.121	53.9	raining	The Staff.
Wakayama	29.83	757.6	29.88	758.9	62.2	16.8	93	e.	11.8	5.3			10 n			1.295	32.9	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	75.4	24.1	63	ese.	12.5	5.6		1cs;c	5k;ks;n		se	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.38	619.2	30.04	763.0	59.4	15.2	92	sse.	0.9	0.4		4 c	8 ck;n;s			0.055	1.4	overcast	Prof. M. Leal.
Mazatlan	29.73	755.1	29.99	761.7	75.0	23.9	79	nne.	1.6	0.8		7 cs	1 ks	se.		1.260	32.0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.15	740.3	29.15	740.3	51.1	10.6		sse.			4					0.957	24.3		
Groningen	29.41	746.9	29.46	748.3	48.0	8.9		s.			1					0.335	8.5		
Helder	29.41	747.1	29.41	747.1	47.1	8.4		e.			4					0.724	18.4		
Hellevoetsluis	29.21	742.0	29.21	742.0	47.8	8.8	85	se.			4					0.394	10.0		
Utrecht	29.35	745.5	29.40	746.7	45.1	7.3	92	ese.			4		10			0.646	16.4	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.6			80.1	26.7	73	ne.	0	0			8			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.59	751.5	29.65	753.1	49.3	9.6	66	n.	18	8			5			0	0		
Brono	29.51	752.2	29.65	753.2	41.2	5.1	71	nnw.			6		8			0.276	7.0		
Christiania	29.48	748.9	29.63	752.6	45.3	7.4	61	ssw.	5	2			5			0	0		
Gjæsvær	29.69	754.1	29.71	754.7	32.5	0.3		nne.			2		7						
Lodingen	29.63	752.5	29.67	753.7	36.1	2.3	49	ne.			4		0			0	0		
PORTUGUESE.																			
Angra, Azores					69.6	20.9	69	ese.	6.9	3.1			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.33	770.4	30.42	772.6	72.1	22.3	56	ne.	6.9	3.1			5		n.	0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.98	761.4	30.31	769.9	65.1	18.4	76	wnw.	16.8	7.5			8			0.008	0.2	raining	The Staff.
Ponta Delgada, Azores	30.57	776.5	30.64	778.3	73.4	23.0	52	calm	0	0			5			0	0		
Saint Paul de Loando	29.81	757.2	30.01	762.3	75.2	24.0	90	wnw.	1.3	0.6			10			0	0		
San Salvador, Congo	28.16	715.2	30.00	761.9	77.9	25.5	63	s.			2		10			0	0		
Serra da Estrella	25.35	643.8	30.12	765.1	45.0	7.2	100	w.	46.1	20.6			10			2.260	57.4	foggy	
RUSSIAN.																			
Akmolinski	28.52	724.4	29.55	750.6	66.0	18.9	44	sw.	18	8			10 n			0.012	0.3		Major K. Lasarew.
Archangel	29.46	748.3	29.48	748.8	41.5	5.3	74	e.	4	2			9 k			0	0		Capt. Sseliwerstow
Ashurada	30.19	766.7	30.09	764.3	79.3	26.3	79	wnw.	7	3		0	0			0	0		
Astrakhan	30.12	765.1	30.05	763.3	72.5	22.5	44	sw.	4	2		0	7 s			0	0	light clouds	Capt. Wisganow.
Baku	30.10	764.6	30.06	763.4	77.5	25.3	59	n.	9	4		1 c	0			0	0		
Barnaul	29.37	745.9	29.85	758.3	60.1	15.6	68	se.	2	1			10			c	0		Meteorological Obs'y
Bielosersk	29.03	737.4	29.50	749.2	46.1	7.9	96	calm	0	0			10 n			0.248	6.3	raining	
Dorpat	29.28	743.6	29.52	749.7	50.5	10.3	94	ssw.	9	4			10ks;n			0.138	3.5	light rain	Observatory.
Ekaterinburg	28.24	717.3	29.17	740.8	56.1	13.4	84	calm	0	0			10			0.302	9.2		Meteorological Obs'y.
Elissawetgrad	29.24	742.7	29.69	754.0	57.0	13.9	94	ese.	11	5			10 n			1.043	26.5		
Irkutsk	28.35	720.1	29.97	761.1	57.0	13.9	47	e.			2		10			0	0		
Kasalinsk					74.5	23.6	41	w.	18	8		0	1 k						Observatory.
Kasan	29.36	745.7	29.63	752.5	52.9	11.6	73	wsw.	27	12			10 n			blank	blank		
Kem	29.35	745.6	29.41	746.9	41.9	5.5	65	sw.	9	4			10 ks			0	0		
Kertch	29.78	756.4	29.80	757.0	71.4	21.9	73	calm	0	0			10 n			0	0		Lagorio & Sastyres.
Kieff	29.03	737.4	29.66	753.4	51.1	10.6	95	ne.	7	3			10 n			0.571	14.5	raining	Observatory.
Koslov	29.28	743.8	29.78	756.4	59.9	15.5	58	ssw.	9	4		0	8 ks			0	0		
Liban	29.61	752.2	29.64	752.8	52.9	11.6	70	w.	4	2			10			0.106	2.7		E. Quaas.
Lugan	29.67	753.5	29.87	758.6	59.9	15.5	89	ssw.	13	6			10			0.583	14.8		Meteorological Obs'y.
Moscow	29.17	741.0	29.64	752.8	55.4	13.0	58	wnw.	11.2	5.0		0	5 ks			0	0		Meteorological Obs'y
Nikolaiev	29.60	751.8	29.67	753.6	69.4	20.8	82	s.	31	14			10 n			0.059	1.5		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.65	753.1	29.74	755.3	43.9	6.6	90	w.	7	3			10 n						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.96	760.9	30.10	764.5	63.9	17.7	79	sw.	2.2	1.0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.81	757.1	30.14	765.6	81.9	27.7	36	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.24	742.8	29.44	747.8	43.7	6.5	55	nw.	9	4	.....	0	1 s	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.23	742.5	29.72	754.9	56.8	13.8	58	nnw.	4	2	.....	0	8 ks	.....	.....	0.059	1.5	.....	
Poti	29.95	760.8	29.98	761.6	80.4	26.9	79	calm	0	0	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.47	748.6	29.50	749.2	47.7	8.7	87	ene.	4	2	.....	.....	10 n	.....	.....	0.106	2.7	.....	Central Physical Obs'y.
Samarkand	27.72	704.1	30.11	764.8	73.2	22.9	42	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.28	743.7	29.92	759.9	66.4	19.1	35	s.	4	2	.....	.....	2	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.60	751.9	29.81	757.1	74.8	23.8	65	sw	40	18	.....	0	7 a	.....	.....	0	0	.....	
Starot Bykhov	29.15	740.5	29.70	754.4	55.8	13.2	57	nw.	7	3	.....	0	8 k	.....	.....	0.004	0.1	.....	
Tashkend Laboratory	28.49	723.7	30.10	764.6	75.6	24.2	30	n.	9	4	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.63	727.1	29.96	761.0	88.7	31.5	20	s.	2	1	.....	5 cs	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.59	700.8	30.03	762.5	66.2	19.0	57	calm	0	0	.....	0	4 k	.....	.....	0	0	.....	
Viatka	28.85	732.7	29.47	748.6	45.0	7.2	93	wnw.	7	3	.....	.....	10	.....	.....	0	0	.....	
Warsaw	29.30	744.2	29.72	754.8	57.0	13.9	59	sse.	7	3	.....	0	3 k	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.68	753.9	29.97	761.3	41.0	5.0	97	wnw.	2	1	.....	.....	10	.....	.....	0.130	3.3	raining	M. O. Marks.
Scottish.																			
North Unst	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robt. Burnet.
Spanish.																			
Barcelona, Met. Obs'y	29.77	756.1	29.87	758.7	69.4	20.8	56	w.	21.5	9.6	.....	.....	9	.....	.....	0	0	.....	Antonio Molins.
Bilbao, Met. Obs'y	29.90	759.4	29.96	760.9	57.7	14.3	96	nw.	3.6	1.6	.....	.....	10	.....	.....	0.618	15.7	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.98	685.3	29.95	760.7	54.0	12.2	74	w.	8.1	3.6	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.1	30.04	763.0	63.4	17.4	52	w.	16.6	7.4	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	29.88	758.9	30.00	762.0	75.0	23.9	43	nw.	2.2	1.0	.....	4	3	ese.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.18	741.1	29.94	760.4	59.0	15.0	81	e.	10.3	4.6	.....	4 n	8 n	w.	w.	0.854	21.7	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.14	740.1	30.02	762.5	63.0	17.2	78	nw.	7.4	3.3	.....	.....	9	.....	.....	0.673	17.1	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.04	763.1	30.11	764.8	77.0	25.0	84	sse.	3.4	1.5	.....	cs	sk.	ne.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.1	29.87	758.6	80.5	26.9	83	wnw.	24.2	10.8	.....	3 c	5 ks	.....	.....	0.031	0.8	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.21	767.4	30.31	769.9	63.3	17.4	68	wnw.	18.3	8.2	.....	3	3	w.	w.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.95	760.7	30.04	763.0	80.2	26.8	86	calm	0	0	.....	3 cs	3 kn	se.	se.	0.020	0.5	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.45	748.1	29.49	749.1	31.6	— 0.2	92	n	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	
Umea	29.50	749.4	29.56	750.7	38.1	3.4	66	n.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Hernosand	29.52	749.7	29.57	751.0	50.4	10.2	58	n.	.....	.....	4	.....	2	.....	.....	0	0	.....	
Stockholm	29.45	748.1	29.63	752.6	46.2	7.9	63	w.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Wisby	29.55	750.5	29.61	752.0	47.5	8.6	65	nw.	.....	.....	4	.....	3	.....	.....	0.004	0.1	.....	
Sub-series.																			
Upsala	29.48	748.7	29.56	750.9	45.3	7.4	67	nw.	4.5	2.0	.....	.....	2	.....	.....	0.004	0.1	.....	H.H. Hildebrandesson
Swiss.																			
Geneva	28.32	719.3	29.76	756.0	48.6	9.2	63	ssw.	.....	.....	2	.....	10	.....	.....	0.512	13.0	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.92	760.0	81.3	27.4	46	sw.	8	3.5	.....	.....	8	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	30.03?	762.8?	68.9	20.5	.....	se.	.....	.....	1	.....	10	.....	.....	0.04	1.0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.01	762.3	83.1	28.4	70	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.65	676.9	.....	.....	69	20.6	81	calm	.....	.....	0	.....	10 n	.....	sw.	0	0	threatening	Fred L. Kingsbury.
United States.																			
Albany, New York	30.20	767.1	30.28	769.1	42	5.6	57	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.72	754.9	30.39	771.9	31	— 0.6	78	w.	4	1.8	.....	3 cs	4 s	w.	.....	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.94	760.5	40	4.4	67	calm	0	0	.....	0	0	.....	.....	0.36	9.1	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.91	683.5	29.83	757.7	47	8.3	38	se.	12	5.4	.....	.....	10 n	.....	w.	inap.	inap.	light rain	B. O. Lenoir.
Atlanta, Georgia	29.03	737.3	30.22	767.6	64.0	17.8	100	nw.	4	1.8	.....	.....	hz.	.....	.....	0.19	4.8	dense haze	Edward A. Beals.
Atlantic City, New Jersey	30.30	769.6	30.30	769.6	45	7.2	60	n.	0	2.7	.....	7 c	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.99	761.7	30.18	766.6	73.0	22.8	84	calm	0	0	.....	8 k	0	w.	.....	inap.	inap.	cloudy	Louis Duane.
Baltimore, Maryland	30.35	770.9	30.40	772.1	48	8.9	56	n.	6	2.7	.....	8 cs	0	w.	.....	0	0	cloudy	Geo. W. Fenger.
Barnegat City, New Jersey	30.28	769.1	30.30	769.6	46.0	7.8	60	n.	13	5.8	.....	8 c	0	nw.	.....	0	0	cloudy	G. A. Hill.
Behring Id., Behring Sea	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Geo. Chernick.
Bennett, Fort, Dakota	28.38	720.8	30.00	762.0	49.5	9.7	62	se.	15	6.7	.....	3 k	7 s	nw.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.96	684.8	29.87	758.7	44	6.7	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.15	715.0	30.03	763.7	50	10.0	86	se.	11	4.9	.....	.....	10 s	.....	sw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	45.0	7.2	68	n.	27	12.1	.....	0	0	.....	.....	0	0	clear	J. T. Eaker.
Boise City, Idaho	26.99	685.5	29.85	758.2	40	4.4	100	calm	0	0	.....	1 cs	fg.	.....	.....	0.33	8.4	clear	B. E. Light.
Boston, Massachusetts	30.05	763.3	30.21	767.3	41.0	5.0	73	nw.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.03	762.7	78.0	25.6	90	s.	3	1.3	.....	.....	10 ks	.....	s.	0	0	cloudy	John McGlone.
Buffalo, New York	29.60	751.8	30.36	771.1	37.8	3.2	82	w.	9	4.0	.....	0	2 s	.....	sw.	0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.87	707.9	29.92	760.0	44.7	7.1	71	ne.	11	4.9	.....	0	6 s	.....	.....	0	0	fair	A. Schneider.
Cairo, Illinois	29.83	757.7	30.23	767.8	55.6	13.1	79	se.	4	1.8	.....	.....	10 s	.....	sw.	0.04	1.0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.59	751.6	29.79	756.7	54.1	12.3	97	sw.	3	1.3	.....	.....	10 n	.....	.....	inap.	inap.	light rain	O. D. Stewart.
Cape Henry, Virginia	30.26	768.6	30.28	769.1	57.5	14.2	72	n.	25	11.2	.....	7 ck	2 k	w.	n.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.25	768.3	30.28	769.1	45.0	7.2	60	ne.	12	5.4	.....	0	3 s	.....	.....	0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.20	741.7	29.89	759.2	52	11.1	93	n.	12	5.4	.....	.....	fg.	.....	n.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	78.0	25.6	90	nw.	1	0.4	.....	0	3 k	.....	w.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.09	764.3	30.15	765.8	75.0	23.9	97	n.	6	2.7	.....	6 ck	0	s.	.....	0.02	0.5	fair	J. H. Smith.
Charlotte, N. Carolina	29.39	746.5	30.25	768.3	62.0	16.7	60	e.	9	4.0	.....	7 cs	fg.	w.	.....	inap.	inap.	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.24	768.1	63.0	17.2	90	ne.	2	0.9	.....	7 ck	0	n.	.....	0.11	2.8	fair	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	29.95	760.7	38.3	3.5	93	nw.	1	0.4	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	E. McGovern.
Chicago, Illinois	29.63	752.6	30.34	770.6	48.5	9.2	53	e.	6	2.7	.....	10c;cs	0	w.	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.29	769.4	30.31	769.9	52	11.1	59	ne.	26	11.6	.....	3 ck	5 k	.....	nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.69	754.1	30.35	770.9	56.0	13.3	45	ne.	4	1.8	.....	8 c	0	ne.	.....	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.65	753.1	30.39	771.6	39.7	4.3	80	e.	4	1.8	.....	2 k	0	nw.	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. J. Kenan.
Columbus, Ohio	29.51	749.5	30.37	771.4	45	7.2	76	n.	3	1.3	.....	3 cs	3 s	.....	.....	0	0	fair	D. Cuthbertson.
Concho, Fort, Texas	28.11	714.0	30.06	763.5	67.3	19.6	100	se.	8	3.6	.....	.....	10 n	.....	w.	2.15	54.6	light rain	C. E. King.
Custer, Fort, M. T.	26.62	676.1	29.86	758.4	46	7.8	74	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.61	752.1	30.27	768.8	44	6.7	76	e.	9	4.0	.....	10 cs	0	w.	.....	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	30.10	764.5	55	12.8	75	calm	0	0	.....	0	0	.....	.....	0.10	2.5	clear	J. Williams.
Dayton, Washington T'y	27.98	710.7	29.77	756.1	48.0	8.9	96	s.	1	0.4	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	D. Moore.
Deadwood, Dakota	25.21	640.3	29.89	759.2	50.7	10.4	74	sw.	10	4.5	.....	0	4 s	.....	s.	0	0	fair	F. Des Willson.
Delaware Breakwater, Del.	30.31	769.9	30.33	770.4	51	10.6	59	n.	29	13.0	.....	5 k	0	n.	.....	0	0	fair	F. W. Mixer.
Denver, Colorado	24.66	626.4	29.92	760.0	45.5	7.5	88	nw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.30	744.2	30.22	767.6	47	8.3	86	se.	5	2.2	.....	.....	10 n	.....	se.	0.05	1.3	light rain	F. W. Conrad.
Detroit, Michigan	29.70	754.4	30.41	772.4	39.0	3.9	65	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.31	693.7	29.94	760.5	46	7.8	76	nw.	8	3.6	.....	.....	10 n	.....	nw.	0.81	20.6	light rain	J. H. Bryce.
Dubuque, Iowa	29.60	751.8	30.32	770.1	41.3	5.2	70	ne.	1	0.4	.....	.....	10 s	.....	e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.50	749.3	30.26	768.6	39	3.9	73	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	N. B. Conger.
Eastport, Maine	29.92	760.0	29.99	761.7	37.0	2.8	61	nw.	16	7.2	.....	0	0	.....	.....	0.01	0.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	29.95	760.7	49	9.4	100	nw.	20	8.9	.....	.....	10 s	.....	.....	0.86	21.8	cloudy	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.07	763.8	54.0	12.2	93	calm	0	0	.....	0	0	.....	.....	1.44	36.6	clear	J. O'Dowd.
Erie, Pennsylvania	29.69	753.4	30.39	771.9	44	6.7	69	n.	10	4.5	.....	2 c	0	nw.	.....	0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.68	753.9	30.35	770.9	32.0	0.0	98	n.	2	0.9	.....	4cs;ck	2 s	n.	n.	0	0	fair	George Heathcote.
Galveston, Texas	30.06	763.5	30.10	764.5	81	27.2	79	s.	14	6.3	.....	2 cs	3 ks	.....	s.	0	0	fair	E. O'C. Macherney.
Grand Haven, Michigan	29.69	754.1	30.36	771.1	35.0	1.7	79	e.	5	2.2	.....	8 cs	0	w.	.....	0	0	cloudy	Wm. H. Fallon.

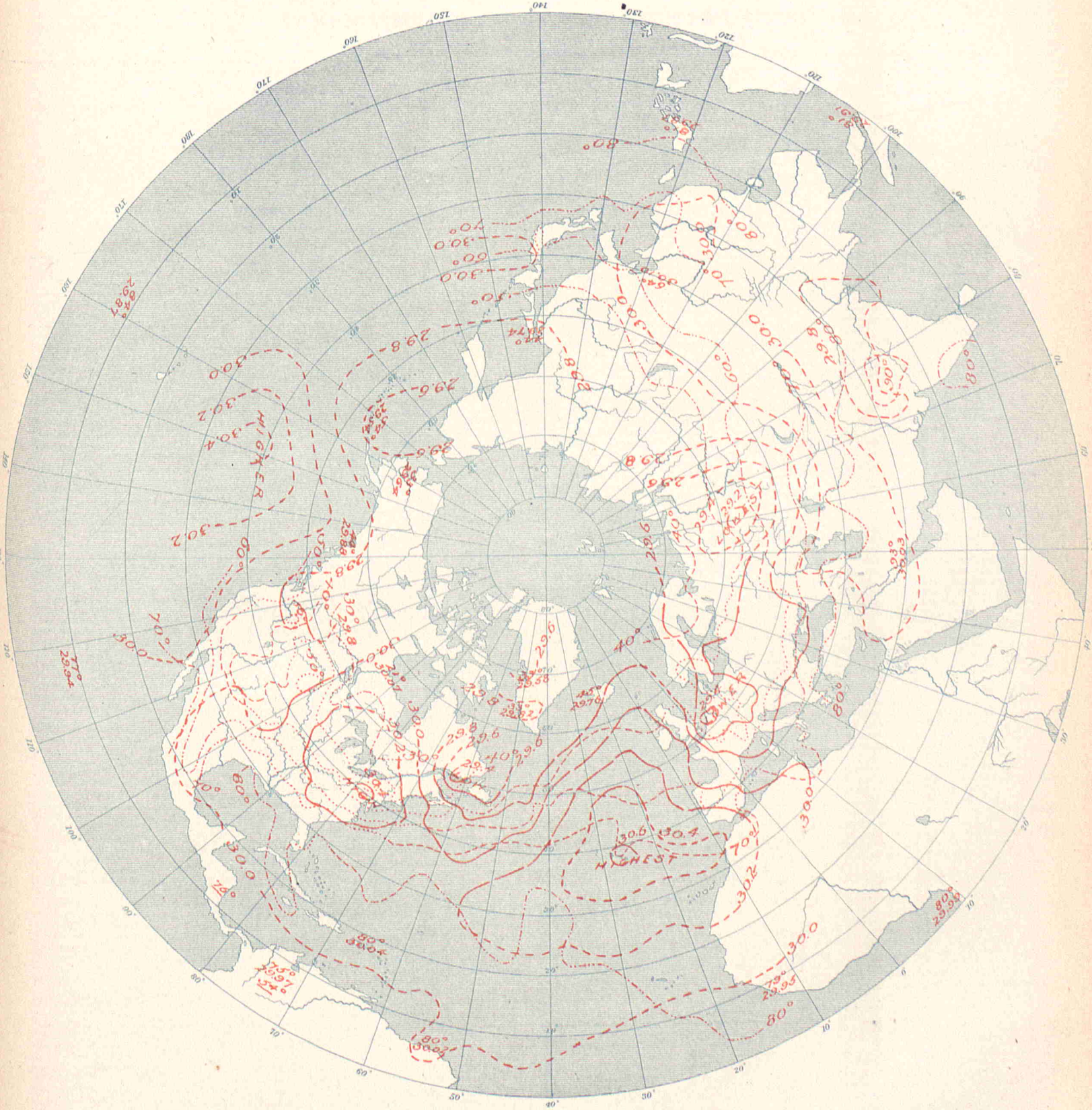
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.24	641.1	29.94	760.5	53.8	12.1	72	se.	2	0.9		2 ck	1 ks	s.		0.30	7.6	clear	Chas. A. Read.
Hatteras, North Carolina	30.20	767.1	30.20	767.1	67.0	19.4	84	ne.	17	7.6		3 k	6 k		ne.	0.06	1.5	cloudy	R. M. Crawford
Helena, Montana	25.56	649.2	29.86	758.4	43	6.1	76	sw.	3	1.3			10 s			0	0	cloudy	J. H. Jones.
Huron, Dakota	28.69	728.7	30.12	765.0	44.5	6.9	83	se.	9	4.0			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.50	749.3	30.30	769.6	45.0	7.2	66	calm	0	0			10 s		w.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.04	763.0	30.07	763.8	78.3	25.7	92	s.	10	4.5		0	2 ks		sw.	0.10	2.5	clear	I. A. Reed.
Jacksonville Florida	30.11	764.8	30.15	765.8	76.0	24.4	85	s	2	0.9		2 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana																			W. B. Lamar.
Keokuk, Iowa	29.58	751.3	30.25	768.3	47.0	8.3	77	e.	12	5.4			10 n		e.	inap.	inap.	light rain	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	82	27.8	74	ne.	6	2.7		0	0			0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.21	767.3	30.23	767.8	65	18.3	67	ne.	32	14.3		0	6 k		ne.	0.01	0.3	fair	Wesley Blake.
Knoxville, Tennessee	29.21	741.9	30.25	768.3	59.8	15.4	84	ne.	5	2.2			9 s			0.47	11.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.52	749.8	30.31	769.9	37	2.8	82	calm	0	0		hz.	5 s			0	0	fair	S. C. Emery.
Leavenworth, Kansas	29.16	740.7	30.06	763.5	50	10.0	86	se.	11	4.9			10 n		se.	0.34	8.6	light rain	T. S. Outram.
Lewiston, Idaho	28.90	734.0	29.75	755.6	53.0	11.7	80	calm	0	0			10 s			0.01	0.3	cloudy	C. E. Butler.
Little Rock, Arkansas	29.80	756.9	30.12	765.0	62.0	16.7	93	e.	4	1.8			10 s			0.03	0.8	cloudy	W. U. Simons.
Los Angeles, California	29.59	751.6	29.99	761.7	54	12.2	93	sw.	6	2.7			10 n		sw.	0.01	0.3	light rain	T. S. Collins.
Louisville, Kentucky	29.70	754.4	30.27	768.8	53	11.7	72	n.	7	3.1			10 s			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.64	752.8	30.34	770.6	57	13.9	51	ne.	6	2.7		0	0			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.69	754.1	30.36	771.1	36.0	2.2	83	sw.	4	1.8		0	5 s			0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.20	767.1	30.20	767.1	67.0	19.4	78	ne.	16	7.2		0	6 k		ne.	0.57	14.5	fair	William Daly.
Maginnis, Fort, Montana	25.29	642.4	29.83	757.7	45	7.2	71	se.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.61	752.1	30.35	770.9	35.0	1.7	79	s.	2	0.9		10 cs	0	w.		0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.15	765.8	63	17.2	100	se.	2	0.9			fg.			1.58	40.1	dense fog	D. T. Flannery.
Milwaukee, Wisconsin	29.60	751.8	30.36	771.1	39	3.9	73	sw.	4	1.8		9 cs	0	w.		0	0	cloudy	W. Line.
Missoula, Fort, Montana																			J. H. Young.
Mobile, Alabama	30.14	765.5	30.18	766.6	74	23.3	90	calm	0	0		0	4 k		w.	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.95	760.7	30.18	766.6	72.5	22.5	90	sw.	1	0.4		4 cs	fg.			0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.14	740.1	30.16	766.1	29	— 1.7	88	se.	10	4.5		hz.	hz.			0	0	dense haze	H. Bessant.
Mt. Washington, N. H.	23.55	598.2	29.89	759.2	8.8	—12.9	100	nw.	60	26.8			fg.		nw.	0.23	5.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.62	752.3	30.20	767.1	59.0	15.0	75	e.	4	1.8		9 cs	0	w.		inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.15	765.8	30.27	768.8	40	4.4	65	nw.	6	2.7		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.24	768.1	30.28	769.1	48	8.9	63	nw.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.12	765.0	30.17	766.3	75.5	24.2	88	se.	1	0.4		3 c	4k;fg		sw.	0	0	fair	M. Herman.
New York, New York	30.13	765.3	30.31	769.9	43.2	6.2	59	calm	0	c		0	fg.			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.27	768.8	30.30	769.6	57.8	14.3	58	n.	16	7.2		4 cs	0	w.		0	0	fair	Wm. Davis.
North Platte, Nebraska	27.05	687.1	30.01	762.2	43.6	6.4	94	e.	6	2.7			10 n			0.26	6.6	light rain	E. F. Brady.
Olympia, Washington T'y	29.72	754.9	29.70	755.9	54.0	12.2	86	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.92	734.6	30.12	765.0	46.0	7.8	97	e.	8	3.6			10 n		e.	0.32	8.1	light rain	A. Pollak
Oswego, New York	29.96	761.0	30.29	769.4	43.0	6.1	51	nw.	10	4.5		4 c	0	nw.		0	0	fair	J. G. Linsley.
Palestine, Texas	29.55	750.6	30.11	764.8	76.0	24.4	90	s.	10	4.5		6 cs	0	sw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	73.1	22.8	97	sw.	4	1.8		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.25	768.3	30.35	770.9	45	7.2	76	nw	8	3.6		3 c	0	w.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	30.04	763.0	20	— 6.7	80	sw.				2 cs	0	w.		0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.58	751.3	30.40	772.1	41.0	5.0	82	nw.	3	1.3			fg.			0	0	dense fog	G. C. Schaeffer.
Poplar River, Montana																			M. J. Wright, jr.
Port Huron, Michigan	29.67	753.6	30.36	771.1	37.0	2.8	82	s.	1	0.4		5 c	0	s.		0	0	fair	M. H. Perry
Portland, Maine	30.10	764.5	30.15	765.8	40.0	4.4	57	nw.	7	3.1		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.73	755.1	29.80	756.9	55.0	12.8	86	calm	0	0			10 s			0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.73	628.1	29.89	759.2	42.0	5.6	51	e.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.16	766.1	30.19	766.8	45.5	7.5	38	nw.	14	6.3		2 k	0	nw.		0	0	clear	C. N. Kitchel.
Punta Rassa, Florida																			W. J. Evans.
Red Bluff, California	29.55	750.6	29.91	759.7	50	13.3	86	n.	2	0.9			10 ks			0	0	cloudy	J. R. Williams.
Rio Grande City, Texas	29.83	757.7	30.07	763.8	78.2	25.7	87	se.	6	2.7		0	5 s		se.	0	0	fair	Fred. Belford.
Roseburg, Oregon	29.31	744.5	29.87	758.7	52	11.1	88	se.	1	0.4			10 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	29.84	757.9	29.92	760.0	54.0	12.2	86	se.	10	4.5		0	5 s			0	0	fair	J. A. Barwick
St. Louis, Missouri	29.63	752.6	30.25	768.3	51.0	10.6	86	e.	9	4.0			10 n		e.	0.05	1.3	heavy rain	J. H. Weber.
St. Michael, Fort, Alaska	29.61	752.1	29.64	752.8	33	0.6	88	se.	21	9.4			10 s		se.	0.01	0.3	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.37	746.0	30.24	768.1	30.0	2.2	79	s	3	1.3		3 cs	0	ne.		0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.19	741.4	30.09	764.3	28	— 2.2	88	se.	1	0.4		sk.	sk.			0	0	dense smoke	C. B. Dilley
Salt Lake City, Utah	25.48	647.2	29.88	758.9	40	7.8	71	se.	4	1.8		0	5 ks		sw.	0.07	1.8	fair	J. Craig.
San Antonio, Texas																			J. H. Davis.
San Diego, California	29.91	759.7	29.98	761.5	62.0	16.7	72	w.	8	3.6		6 k	0	w.		0.03	0.8	fair	F. R. Day.
Sanford, Florida	30.08	764.0	30.14	765.5	75	23.9	85	calm	0	0		5 c	fg.	w.		0	0	fair	J. B. Marbury.
Sandusky, Ohio	29.70	754.4	30.39	771.9	45	7.2	60	sw	7	3.1		0	0			0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.27	768.8	30.30	769.6	47.0	8.3	93	nw.	25	11.2		1 k	0	nw.		0	0	clear	B. A. Blundon
San Francisco, California	29.85	758.2	29.92	760.0	53.5	11.9	90	w.	4	1.8		0	fg.			0	0	clear	N. Gorom.
Santa Fé, New Mexico																			H. U. Jones
Savannah, Georgia	30.05	763.3	30.14	765.5	75.5	24.2	82	nw.	8	3.6		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.15	664.2	29.85	758.2	37	2.8	92	w.	8	3.6			10 s			0.12	3.0	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.80	756.9	30.04	763.0	74.8	23.8	90	s.	4	1.8			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly
Sitka, Alaska	29.81	757.2	29.88	758.9	44.2	6.8	83	w.	3	1.3		0	5 ks		w.	0.60	15.2	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.62	752.3	30.10	764.5	60.5	15.8	93	e.	10	4.5			10 s			0.47	11.9	cloudy	J. B. Campbell.
Smithville North Carolina	30.14	765.5	30.18	766.6	71.0	21.7	84	ne.	14	6.3			10 ks		e.	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.76	705.1	29.84	757.9	50	10.0	80	sw.	1	0.4		0	4 k		w.	0	0	fair	John F. Hemenway.
Springfield, Illinois	29.59	751.6	30.28	769.1	47.5	8.6	71	e.	9	4.0			10 s		w.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.04	686.8	30.06	763.5	60.0	15.6	93	se.	2	0.9		6 ck	0	sw.		0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	29.62	752.3			53.5	11.9	90	sw.	10	4.5			10 n		sw.	inap.	inap.	light rain	R. Connor.
Thomas, Camp, Arizona					50	10.0	36	se.			1	0	0			0.12	3.0	clear	R. C. Lord.
Toledo, Ohio	29.67	753.6	30.37	771.4	40	4.4	65	n.	8	3.6		4 c	sk.	nw.		0	0	fair	A. Buell.
Tucson, Arizona																			J. L. Whiteside.
Unalashka, Alaska	29.52	749.8	29.54	750.3	50	10.0	71	s.	32	14.3		0	0			0.17	4.3	clear	Samuel Applegate.
Verde, Fort, Arizona					49.5	9.7	50	s.			1	0	0			0.04	1.0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.88	758.9	30.14	765.5	74.0	23.3	97	s.	5	2.2			10 s			0	0	cloudy	James Kenealy.
Visalia, California																			O. D. Stewart
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.20	768.6	30.38	771.6	40.4	8.0	65	n	8	3.6		9 cs	0	nw.		0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.98	659.9	29.91	759.7	43	6.1	90	se.	3	1.3			10 s			0.64	16.3	cloudy	F. H. Brandenburg.
Williamsport, Pa																			J. F. Hough.
Wilmington, N. Carolina	30.16	766.1	30.22	767.6	69.0	20.6	84	ne.	9	4.0		1 c	8 s		n.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada																			J. Grover.
Yankton, Dakota	28.77	730.7	30.10	764.5	44.4	6.9	86	se.	7	3.1			10 n			0.02	0.5	light rain	E. H. Thompson.
Yuma, Arizona	29.77	756.1	29.92	760.0	57.3	14.1	62	calm	0	0		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1		10 n		nw.	0.63	16.0	raining	W. H. Jackson.
Bogota, U. S. C.	22.05	560.0			54.0	12.2	74	n.	2	1			10s;h		w.	0	0	cloudy	Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3	76.8	24.9	90	calm	0	0		8 cs	2 s		e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	82	s.			2	5 ck	4 k	e.		0.020	0.5	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.41	747.0	29.97	761.2	75	23.9	89	s.			1	3 ck	2 ks	calm	s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					70	24.4	90	ne.			1		0 ks		se.	0.04	1.0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska																			W. J. Fisher.
York Factory, B. A.	30.01	762.2	30.07	763.8	20.5	— 6.4	93	nw.	9	4.0		1 c	1 s	nw.	nw.	0	0		Forbesque & Wood

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 40° 37′, E. 22° 57′	29.88	758.9	82	27.8	75	sse.			2		8	sse.						d. clouds.
H. M. S. Cockatrice, N. 38° 47′, E. 24° 08′	29.90	759.4	83	28.3		sse.			3		7	ssw.				3	sse.	misty.
H. M. Dockyard, Bermuda, Atlantic	30.00	762.0	79	26.1	86	wsw.			2		7	wsw.						d. clouds.
H. M. S. Flamingo, N. 49° 33′, W. 54° 05′	29.54	750.3	47	8.3	92	ssw.			2		6	s.				5	con.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.98	761.5	81	27.2	91	nne.			2		2							d. clouds.
H. M. S. Orontes, N. 44° 12′. W. 9° 22′	30.02	762.5	61	16.1	94	w.			4–6		7					7	wnw.	squally.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.99	761.7	80.2	26.8	83	sse.			3		9	sw.		3 h'r	3 h'r	4	sw.	showery.
U. S. Navy Yard, Portsmouth, N. H*	30.12	765.0	40	4.4	64	nw.	14	6.3			0			0	0			clear.
U. S. S. Alliance, N. 43° 45′, W. 67° 30′	30.08	764.0	43	6.1	83	nnw.			4–6		2	w.		light	light	r'gh	w.	clear.
U. S. S. Jamestown, N. 21° 22′, W. 46° 00′	30.16	766.1	80	26.7	96	e.			5		8	ese.				sm'h	ese.	fair.
U. S. S. Kearsarge, N. 34° 52′, W. 8° 02′	30.40	772.1	66	18.9	65	nnw.			3		2	nnw.				sm'h		fair.
U. S. S. Lancaster, Tangier, Morocco	30.34	770.6	64	17.8	100	nw.			3		5	nw				sm'h		fair.
U. S. S. New Hampshire, Newport, R. I			45	7.2	68	nw.			5		5	calm				sm'h		fair.
U. S. S. Portsmouth, off Narragansett Pier, R.I.	30.24	768.1	45	7.2	84	nw.			4		2	w.						clear.
U. S. S. Powhatan, Sydney, C.B	29.75	755.6	45	7.2	84	sw.			3		5	wsw.						fair
U. S. S. Quinnebaug, Leghorn, Italy	29.84	757.9	69	20.6	74	sw.			3–6		10	w.						cloudy.
U. S. S. Saratoga, New York, N. Y	30.28	769.1	44	6.7	84	wnw.			3		0			0	0	sm'h		clear.
U. S. S. Swatara, N. 42° 30′. W. 70° 30′	30.17	766.3	45	7.2	53	nw.			5		2	nw.				mod.	nw.	fair.
U. S. S. Vandalia, Boston, Mass†	30.21	767.3	41	5.0	74	nw.			2		0							clear.
S. S. British Princess, N. 49° 34′ W. 37° 06′†	30.13	765.3	61	16.1		sw.			4		10	sw.		5 h'r	5 h'r	cross	nw.	dense fog.
S. S. Lord Clive, N. 46° 27′. W. 47° 28′						s.			6		fg.			0	0	sli't	nnw.	foggy
S. S. Lord Gough, N. 47° 03′, W. 48° 21′			54	12.2		ssw.			4		10	sw.		7 h'r	7 h'r	mod.	s.	foggy.
S. S. Ohio, N. 39° 32′. W. 71° 43′†	30.27	768.8	52	11.1	86	n.			3		2	n.		0	0	sm'h	n.	clear.
S. S. Prussian, N. 48° 05′. W. 48° 00′	29.82	757.4	54	12.2		wsw.			4			sw.		0	0	mod.	wsw.	foggy.
S. S. Scandinavian, Boston, Mass	30.20	767.1	44	6.7		wnw.			1		0			0	0			blue sky.
S. S. Jason, N 44° 27′, W. 55° 10′			55.4	13.0		nw.			4		6 k					4	nw.	cloudy.
S. S. Alvo, N. 26° 12′, W. 74° 18′			82	27.8		nne.			4		6	n.		2 h'r	2 h'r	long	se.	fine.
S. S. Ailsa, N. 34° 48′, W. 73° 56′			73	22.8	90	ne.			5		3	nne.		6 h'r	6 h'r	mod.	ene.	fair.
S. S. Avilla. N. 19° 25′, W. 75° 10′			86	30.0		ne.			4		2	ne.		rain	rain	sm'h		
S. S. Dorian, Malaga, Spain	30.12	765.0																fine.
S. S. Furnessia N. 43° 06′, W. 55° 59′†	29.88	758.9	62	16.7	72	nw.			1		1	nw.		2 h'r	2 h'r	mod.	nw.	fair.
S. S. Jerome, N. 6° 49′ W. 50° 21′*	29.99	761.7	81	27.2		sse.			2		5	var.		0	0	long	se.	fair.
S. S. Llandaff City, N. 50° 52′, W. 11° 47′†	30.19	766.8	60	15.6		n.			4		4	w.		0	0	light	nw.	fine.
S. S. Cephalonia, N. 46° 48′, W. 38° 59′	30.13	765.3	71	21.7	90	s.			4		8	s.		3 h'r	3 h'r	sli't	sw.	misty.
S. S. Bothnia, N. 48° 07′, W. 37° 23′	30.12	765.0	66	18.9	?	ssw.			3		10			0	0	mod.	w.	dense fog.
S. S. Scythia, N. 40° 37′, W. 67° 02′	30.10	764.5	59	15.0	88	nnw.			3		6?	n.		0	0	mod.	nnw.	clear ?
S. S. Samaria, off Kinsale, Ireland*	30.07	763.8	57	13.9		nnw.			5		1	n.		0	0	sm'h		clear.
S. S. France, N. 49° 04′, W. 20° 17′ *†	30.38	771.6	53.6	12		nnw.			4		8	n.		0	0	h'vy	nw.	cloudy.
S. S. Olinde Rodrignes, N. 28° 35′, W. 39° 25′*†	30.26	768.6	81	27.2		ese.			4		2	e.		0	0	sm'h		clear.
S. S. Arizona, N. 47° 27′, W. 45° 48′	29.86	758.4	55	12.8		sse.			5		10	w.		4 h'r	4 h'r	mod.	sw.	foggy.
S. S. Wyoming, N. 51° 17′, W. 11° 16′	30.13	765.3	57	13.9		nne.			3		3	nne.		8 h'r	8 h'r	long	nnw.	fair.
S. S. Bohemia, Hamburg, Germany*†	29.55	750.6				wsw.			4–5		6	sw.		2 h'r	2 h'r			
S. S. Frisia, N. 49° 48′ W. 29° 20′	30.37	771.4				sw.			3		10	sw.		10 h'r	10 h'r	long	sw.	cloudy.
S. S. Gellert, Hamburg, Germany	29.49	749.0	48	8.9	85	sw.			2		10	e.		2 h'r	2 h'r			covered.
S. S. Silesia, N. 43° 20′, W. 56° 50′	29.85	758.2	58	14.4		w.			4		8	w.		0	0	long	wnw.	fair.
S. S. Nessmore, Baltimore, Md	30.34	770.6	50	10.0	100	var.			2		0			0	0			clear.
S. S. Hevelius. N. 50° 40′, W. 6° 00′†	29.88	758.9	56	13.3		nw.			5			nw.		12 h'r	12 h'r	mod.	w.	clear.
S. S. Rio Grande, Galveston, Texas†	30.11	764.8	82	27.8		sse.			4		3	sse.		0	0	light	e.	clear.
S. S. Chalmette, N. 27° 35′, W. 87° 12′†	30.17	766.3	81	27.2		se.			3		3	se.		1 h'r	1 h'r	sm'h		cloudy
S. S. Lone Star, N. 29° 00′. W. 79° 56′ *†	30.10	764.5	82	27.8		w.			3		3	nw.		0	0	sm'h		clear.
S. S. Alleghany, Block Island, R.I †	30.29	769.4	50	10.0		nw			5		2	n.		0	0			fair.
S. S. Archimede, N. 33° 57′. W. 43° 19′ †	30.34	770.6	80	26.7		ssw.			3		2	sw.		0	0	sm'h	sw.	clear.
S. S. City of Merida, N. 23° 09′, W. 82° 22′ *†.	30.10	764.5	78	25.6		ne.			1		2	ne.		0	0	mod.	ne.	fine.
S. S. Canada, N. 45° 06′, W. 49° 09′			54	12.2		s.			3		fg.			0	0	mod	sw.	foggy.
S. S. Denmark, N. 45° 12′. W. 38° 30′			66	18.9		sse.			6		10			sse.	16 h'r	16 h'r	sli't	s.	hazy.
S. S. Grecian, Montreal, Canada	30.16	766.1	35	1.7	90	w.			5		0			3 h'r	3 h'r			clear.
S. S. England, Queenstown, Ireland	30.04	763.0				n.			4		2	n.		0	0	sm'h		clear.
S. S. Erin, London, Eng			48	8.9		nnw.			5		6	nnw.		0	0			fair.
S. S. Greece, N. 40° 22′, W. 69° 10′	30.21	767.3	50	10.0	79	nnw.			7		2	nnw.		0	0	mod.	nnw.	clear.
S. S. The Queen, N. 44° 09′, W. 45° 29′	29.96	761.0	65	18.3		sse.			4		0			0	0	sm'h		clear.
S. S. America, N 47° 30′, W. 44° 48′*	29.80	756.9	59.0	15.0	82	sw.			5		5	sw.				mod.	sw.	fair
S. S. Donau. N. 49° 41′, W. 15° 19′	30.23	767.8				wnw.			6		7	nnw.		9 h'r	9 h'r	r'gh	var.	fair.
S. S. Elbe, N. 49° 51′, W. 6° 00′	30.05	763.3	55.4	13.0	94	n.			6		0			0	0	rg'h	n.	clear
S. S. Habsburg, N. 48° 39′. W. 40° 45′	30.05	763.3				s.			4		8	sse.		0	0	mod.	s.	cloudy.
S. S. Hohenstaufen, N. 24° 15′, W. 22° 26′	30.19	766.8	74.3	23.5		e.			6		8	ene.		0	0	r'gh	ene.	cloudy.
S. S. Orinoco, New York, N. Y†	30.26	768.6				nw.			3		0			0	0			clear.
S. S. Main, N. 48° 29′, W. 40° 53′	30.02	762.5	62.6	17.0		sse.			4		7	sse.		2 h'r	2 h'r	sm'h	sse.	fair.
S. S. Ohio, N. 52° 14′, E. 2° 56′	29.31	744.5				ene.			6–7		10	e.		4 h'r	4 h'r	long	e.	cloudy
S. S. Salier. N. 43° 48′, W. 57° 22′*	29.78	756.4	55.4	13.0		wsw.			6		3	wsw.		1 h'r	1 h'r	mod.	wsw.	clear.
S. S. Strassburg, N. 38° 21′, W. 73° 05′	30.28	769.1	59.0	15.0	59	n.			4		10	n.		0	0	4	n.	covered.
S. S. City of Augusta, Savannah, Ga †	30.12	765.0				nw.			2		2	nw.						clear
S. S. Muriel, St. Thomas, W. I	29.98	761.5	82	27.8		ene.			2		0			0	0	sm'h		clear.
S. S. Belgenland, N. 40° 26′, W. 73° 15′ †	30.37	771.4	50	10.0	100	nw.			4		1	nw.		0	0	sm'h		clear.
S. S. Rhynland. N. 47° 40′, W. 45° 34′	29.88	758.9	55	12.8		sw.			6		6	s.				mod.	n.	fair.
S. S. Pennland, Jersey City, N.J			44	6.7	77	n.			2		0			0	0			clear.
S. S. Switzerland, N. 50° 29′, W. 29° 31′*†	30.37	771.4				s.			2		10	ssw.		2 h'r	2 h'r	long	wsw.	cloudy.
S. S. Vaderland, N. 50° 40′, W. 0° 10′	29.68	753.9	54	12.2		nw.			7		5	nw.		1 h'r	1 h'r	mod.	wnw.	fair.
S. S. Waesland, Antwerp, Belgium	29.33	745.0	47	8.3		ssw.			6		10	ssw.		20 h'r	20 h'r			drizzling.
S. S. P. Caland, N. 49° 50′, W. 26° 10′	30.36	771.1	57.2	14	84	sw.			1		6	nw.				3	w.	fair.
S. S. Schiedam, N. 49° 40′, W. 23° 01′	30.39	771.9	63.3	17.4	73	w.			2		8	w.		0	0	long	nw.	cloudy.
S. S. Zaandam, New York, N. Y	30.26	768.6	50.4	10.2	76	w			2		3	w.		0	0			clear
S. S. Valencia, LaGuayra, Venezuela*†	29.96	761.0	82	27.8	81	se.			1		1	e.		1 h'r	1 h'r	short	ene.	clear.
S. S. W. A. Scholten, N. 44° 04′, W. 56° 09′	29.85	758.2	57.2	14.0	83	wsw.			4		8	w.		2 h'r	2 h'r	4	wsw.	rainy.
S. S. Thingvalla, N. 41° 04′, W. 66° 59′	30.11	764.8				nnw.			3		2	nnw.		0	0	long	nnw.	clear.
S. S. Otranto, N. 49° 56′, W. 9° 05′			61	16.1		n.			3		5	nnw.		0	0	long	nnw	fair.
S. S. Romano, Boston, Mass			46	7.8		n.			5		4	n.		0	0			fair.
S. S. Salerno, Hull, Eng *†	29.70	754.4	52	11.1		ne.			4		8	sw.		0.2	5.			raining.
S. S. Oregon, N. 55° 27′, W 38° 02′	29.82	757.4	48	8.9		sse.			6		10	sse.				mod.	wnw.	raining.
S. S. Quebec, N. 48° 33′, W. 68° 28	29.84	757.9	36	2.2		wsw.			3		4	wsw.		5 h'r	5 h'r	sm'h		fair.
S. S. Texas, Gulf of St. Lawrence *†	29.51	749.5	52	11.1	?	w.			5		8			1 h'r	1 h'r	long	w.	cloudy.
S. S. Olbers, N. 11° :3′ W. 48° 36′	30.05	763.3	82	27.8	96	ne.			6		7	ne.		2 h'r	2 h'r	light	ene.	hazy.
S. S. Daniel Steinmann, N. 50° 29′, W. 31° 06′†	30.28	769.1	59	15.0		sse.			4		10			2 h'r	2 h'r	h'vy	w.	foggy.
S. S. Adriatic, N. 51° 07′, W. 14° 58′ *†	30.14	765.5	67	19.4		var.			4			n.						showery.
S. S. Celtic, New York, N. Y †	30.31	769.9	52	11.1		wsw.			3		2	w.		0	0			clear.
S. S. Germanic, N. 44° 17′, W. 55° 20′*†	29.79	756.7	56	13.3		wsw.			5		6	wsw.		5 h'r	5 h'r	short	wsw.	fair.
S. S. Republic, N. 50° 22′, W. 22° 32′ *†	30.39	771.9	56	13.3		n.			3		7	nw.		0	0	light	nw.	d. clouds.
S. S. Iowa, N. 44° 39′, W. 60° 12′†	29.88	758.9	52	11.1		wsw.			5		4	wsw.		0	0	con.		fair.
S. S. Assyrian Monarch, N. 47° 37′ W. 38° 19′	30.22	767.6				sw.			5		fg.			3 h'r	3 h'r	mod.	sw.	foggy.
Bk. Arda, N. 31° 11′, W. 24° 14′ †	30.36	771.1				ene.			4		6	ene.		0	0	mod.	ene.	squally.
Bk. Alpheus Marshall, N. 8° 45′, W. 22° 44′ *†	29.94	760.5	80	26.7	91	sw.			1		3	ssw.		2 h'r	2 h'r	mod	ssw.	clear.
Bk. Ariadne, N. 48° 00′, W. 42° 44′			61	16.1	100	se.			4		1			0	0	mod.	var.	hazy.
Bg. Abbie Clifford, N. 36° 15′. W. 65° 14′			72	22.2		nnw.			4		10	ssw.		0	0	small	nw.	cloudy.
Schr. Arthur Burton, Point Judith, R.I						nw.			7		2	nw.		0	0	sm'h		clear.
S. S. Antonio Lopez, N. 39° 00′, W. 9° 28′*	30.31	769.9	66.5	19.2	84	wnw.			2	5 c				0	0	mod.	wnw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Adda Doane, N. 29° 32′, W. 63° 23′*†	30.14	765.5				ssw.			3		3		sw.	2 h'r	2 h'r	sm'h		clear.
Bk. Adelaide, N. 5° 19′, W. 28° 47′			80	26.7		ese.			3		10		ne.	6 h'r	6 h'r	r'gh	sse.	raining.
Bg. Belle of the Bay, Galveston, Texas†	30.07	763.8				sse.			5		4		sse.	0	0			fair.
Bk. Ceylon, N. 18° 24′, W. 37° 06′†	30.08	764.0	82	27.8	87	ene.			5		3		e.	sq'lls	sq'lls	rg'h	e.	squally.
Schr. Clotilde, N. 37° 48′, W. 74° 22′			56	13.3		n.			6		8		ne.	0	0	r'gh	n.	cloudy.
Schr. C. R. Flint, N. 10° 32′, W. 56° 45′ †	29.96	761.0	85	29.4		e.			2		4		ene.	2 h'r	2 h'r	sm'h	e.	fair.
Bk. Don Justo, N. 40° 50′, W. 65° 10′			55	12.8		nw.			5		2		nw.	0	0	mod.	var.	clear.
S. S. D. J. Foley, N. 26° 29′, W. 73° 45′*†	30.10	764.5	83	28.3	83	ese.			1		3		e.	0	0	long	ese.	clear.
Bkt. David A. Preston, New York, N. Y.†	30.32	770.1				nw.			3		1		nw.	0	0	sm'h		
Bk. Diamant, N. 45° 57′, W. 36° 58′	30.33?	770.4?	66.0	18.9	99	s.			5		10		ssw.	8 h'r	8 h'r	4	ssw.	covered.
S. Dynomene, N. 20° 25′, W. 24° 56′	30.09	764.3	77	25.0	88	ene.			5		7			mod.	mod.	r'gh	ne.	misty.
S. David Stewart, N. 35° 40′, W. 74° 34′†	30.28	769.1	62	16.7		ene.			6		6		ene.			mod.	ne.	misty.
S. E. J. Spicer, N. 46° 00′, W. 13° 30′	30.19	766.8	60	15.6	94	nw.			6		10		nw.	rain	rain	mod.	nw.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.11	764.8	85	29.4		se.			4		2		se.	0	0			fine.
S. Festina Lente, off Cape Gaspe, Canada	29.46	748.3	37	2.8		w.			9		8		wsw.	6 h'r	6 h'r	r'gh	w.	squally.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.27	768.8	49	9.4	78	nnw.			4		0			0	0			clear.
S. Gatherer, N. 43° 49′, W. 28° 15′*	30.53	775.4	71	21.7	85	ssw.			2		2		ssw.	0	0	sm'h	sw.	clear.
Bg. George, N. 25° 40′, W. 69° 15′ *†	30.11	764.8	80	26.7		ne.			1		0?			0	0	sm'h		fair.?
Bk. Galeon, N. 22° 32′, W. 38° 00′†	30.15	765.8	79	26.1		ene.			4		3		e.	light	light	mod.	e.	blue sky.
Bk. Grey Eagle, N. 3° 05′, W. 28° 20 *†	29.90	759.4				sse.			3		4		sse.	0	0	short	sse	clear.
Bk. Hattie G. McFarland, New York, N. Y.†	30.27	768.8	46	7.8		nw.			5		2		nw.	0	0			fine.
S. Hedwig, N. 20° 35′, W. 39° 45′	30.10	764.6	82.4	28.0	71	ene.			6		4		ene.	¼ h'r	¼h'r	3	ene.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	30.16	766.1				ne.			1		2		e.	0	0			
Bk. Ibis, N. 33° 40′, W. 76° 20′*	30.15	765.8	77	25.0		ne.			6		8		ne.	0	0	r'gh	ne.	clearing.
Bk. John H. Pearson, N. 36° 28′, W. 3° 50′						w.			5				w.	0	0	r'gh		clear.
Schr. Jas. Slater, N. 23° 55′, W. 60° 16′ †	30.02	762.5				ne.			3		2		se.	½h'r	½h'r	sm'h	ne	
Bg. Josefa, N. 46° 15′, W. 56° 15′†	29.62	752.3				wsw.			6		8		wsw.	4 h'r	4 h'r	r'gh	sw.	cloudy.
Bkt. Kryolith, N. 41° 49′, W. 64° 22′ *†	29.90	759.4				nw.			6		2		nw.	0	0	r'gh	var.	clear.
Bk. Lady Hincks, N. 26° 24′, W. 53° 26′*†	30.20	767.1												sh'rs	sh'rs			cloudy.
Bg. Lilian, N. 14° 05′, W. 59° 05′†	30.01	762.2	85	29.4		ene.			2		3			½h'r	½h'r	mod.	var.	fair.
Bg. L. & W. Armstrong, N. 34° 41′, W. 72° 19′*†	30.08	764.0				ene.			6		4		nne.	1 h'r	1 h'r	sm'h	n.	clearing.
S. S. Madrid, Taganrog, Russia †	29.86	758.4	64	17.8	89	ne.			2		9		ne.	0	0			fair.
Bk. Matilda C. Smith, N. 41° 41′, W. 48° 35′*†	30.05	763.3				s			5		5		s.	0	0	mod.	sse.	threatening.
Bk. Matthias, N. 39° 06′, W. 65° 02′ *†	30.09	764.3	66	18.9		var.			3		6		nw.	c	0	3-4	w.	threatening.
Bk. National Eagle, N. 40° 38′, E. 18° 45′						s.			6		10		s.	6 h'r	6 h'r	r'gh		cloudy
Bk. Orpheus, N. 40° 11′, W. 68° 37′	30.12	765.0	57	13.9		nnw.			4		8 k		nnw.	0	0	mod.		cloudy.
S. S. Radnorshire, N. 42° 35′, W. 10° 20′ *†	30.10	764.5				wsw.			6		10		wsw.	sq'lls	sq lls	long	wsw.	threatening.
Schr. Rollin Sanford, Milton, Fla.†	30.18	766.0				nnw.			2		2		nw.	0	0			clear.
Bg. Rising Sun, N. 30° 54′, W. 60° 28′†	30.15	765.8	82	27.8		ssw.			3		1		ssw.	0	0	sm'h		clear.
Bk. Rosalie, N. 22° 53′, W. 22° 55′*†	30.17	766.3				e.			5		3		e.	¾ h'r	¾h'r	high	ne.	hazy
Bk. Saga, N. 56° 18′, E. 12° 23′ *†	29.58	751.3	56.5	13.6		se.			2		7		ese.	6 h'r	6 h'r	sm'h		fair.
S. Salisbury, N. 39° 02′, W. 47° 00′	30.08	764.0	76.6	24.8	86	ese.			5	3 ck	0			0	0	long	sse.	clear.
Bgt. Sunlight, N. 35° 45′, W. 74° 30′						nnw.			6		10		nne.	1 h'r	1 h'r	r'gh		cloudy.
Bk. Samuel B. Hale, N. 34° 00′, W. 45° 25′*†	30.35	770.9				sse.			4				sse.	0	0	short	wnw.	clear.
Bk. Sunbeam, N. 42° 38′, W. 48° 15′†	30.06	763.5	72	22.2	90	sse.			6		6		s.	0	0	sm'h		fair.
Bk. Scud, N. 22° 45′, W. 57° 00′*†	30.12	765.0	85	29.4		ese.			4		5		ese.			short	sse.	rainy.
Bk. St. Lawrence, N. 11° 20′, W. 56° 10′ *†	29.95	760.7				e.			5				e.			long	ne.	fair.
S. S. Tower Hill, N. 41° 42′, W. 64° 23′*†	29.90	759.4				w.			6		4		w.			high	v	showery
Schr. Viola Reppard, N. 36° 11′, W. 75° 34′†	30.35	770.9	70	21.1		ne.			5		5		ne.			r'gh	ne.	fair.
Schr. Walter L. Plummer, N. 26° 07′, W. 18° 17′*†	30.30	769.6				ne.			6		5		ne.			mod.	ne.	fair.
Bk. Childwall, N. 4° 06′, W. 20° 30′ *	29.96	761.0	80	26.7		sse.			5		6		sse.	0	0	light	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Bahia, Brazil	30.04	763.0	75.5	24.2	86	n.			2		3	se.						blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.07	763.8	65	18.3	73	w.			3-5		10	w.						showery.
H. M. S. Opal, S. 6° 18′, W. 12° 10′	30.08	764.0	79	26.1	74	e.			3		4	ese.				4	ese.	d clouds.
H. M. S. Sylvia, Maldonado, Uruguay	30.21	767.3	58.7	14.8	89	e.			3		6	e.						d. clouds.
H. M. S. Tyne, S. 8° 20′, W. 13° 59′	30.11	764.8	75	23.9	64	se.			3		9					3	se.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, Guinea	29.97	761.3	77.0	25.0	80	ssw.			3		9		ssw.	0	0	2		overcast.
H. P. M. S. Bengo, S. 13° 25′, E. 12° 08′	30.01	762.2	70.3	21.3	85	wnw.			2		10			0	0	2		overcast.
U. S. S. Brooklyn, S. 37° 33′, W. 42° 50′*	30.02	762.5	54	12.2	80	sw.	35	15.6			8		sw.	0.01	0.3	r'gh	sw.	squally.
U. S. S. Nipsic, Montevideo, Uruguay*	30.15	765.8	58	14.4	82	ne.			2		5?		calm			sm'h		clear.?
Bk. Aureola, S. 9° 20′, W. 34° 39′†	30.00	762.0	90	32.2		e.			4		2		ese.	0	0	mod.	se.	clear.
S. David Crocket, S. 56° 38′, W. 68° 07′*	29.56	750.8	36	2.2	95	wsw.			7		7		wsw.	16 h'r	16 h'r	long	w.	rain & hail.
Bk. E. L. Pettingill, S. 35° 24′, W. 50° 39′*†	30.40	772.1	63	17.2		ese.			4		0			0	0	sm'h		clear.
Bg. John Wesley, Natal, Brazil.*†	29.96	761.0	80	26.7		se.			4		4		se.	0	0			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.15	765.8				ene.			3		hz		e.	0	0			fair.
S. S. Menadoza, S. 31° 51′, W. 43° 02′†	30.25	768.3				sse.			3		8		ssw.	0	0	sm'h	ssw.	
Bk. Mohican, S. 32° 30′, W. 24° 01′	29.62	752.3	66	18.9		wsw.			7		6		sw.	18 h'r	18 h'r	rg'h	wsw.	cloudy.
Bk. Pilgrim, S. 19° 26′, W. 3° 00′*†	30.20	767.1				ese.			2		4		ese.	0	0	mod.	ese.	clear.
Bgt. Willie, S. 27° 55′, W. 45° 50′ *†	30.15	765.8	70	21.1		ese.			4		9			0	0	mod.	sse.	cloudy.
Bk. Achille F, S. 26° 30′, W. 39° 30′ †	30.13	765.3	72	22.2		ese.			4		2		se.	0	0	mod	se.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.91	759.7	64	17.8	100	n.			1		10	ne.						raining.
H. M. S. Champion, Singapore, Malay Peninsula	29.91	759.7	81	27.2	91	sw.			1		8							d. clouds.
H. M. S. Cleopatra, N. 24° 15′, E. 118° 40′	29.90	759.4	75	23.9	77	ne.			6		5					5	nne.	d. clouds
H. M. S. Flying Fish, N. 37° 25′, E. 125° 15′	30.00	762.0	66	18.9	84	nw.			4		0					3	nw.	blue sky.
H. M. S. Magpie, N. 3° 07′, E. 110° 56′	29.88	758.9	83.5	28.6	75	w.			2		0					2	w.	misty.
H. M. S. Zephyr, N. 31° 50′, E. 126° 46′	29.90	759.4	71	21.7		n			3		3	n.				1	n.	blue sky.
H. P. M. S. Pemega, Canton, China	29.97	761.3	80.6	27.0	77	n.			2		8			0	0			d. clouds
U. S. Naval Hospital, Yokohama, Japan	30.00?	763.5?	60	15.6	100	n.			3		10			1.15	29.2			raining.
U. S. S. Essex, N. 32° 38′, E. 129° 26′	29.86	758.4	70	21.1	95	nne.			4		5					sm'h		fair.
U. S. S. Hartford, N. 9° 20′, W. 83° 07′*	29.81	757.2	79	26.1	86	sse.			1		5			0	0	sm'h		fair.
U. S. S. Juniata, N. 20° 59′, E. 114° 37′	29.96	761.0	80	26.7	96	ene.			4		8		se.	mod.	mod.	mod.	ne.	cloudy.
U. S. S. Monocacy, Ross Island, Corea	30.00	762.0	68	20.0	89	nw.			2		0							clear.
U. S. S. Pensacola, N. 31° 09′, E. 144° 08′ *	29.90	759.4	80	26.7	87	se.			4-5		5		se.	mod.	mod.	long	se.	fair
U. S. S. Ranger, Mare Island, Cal	29.90	759.4	58	14.4	88	sw.			1		2			0	0			fair
U. S. S. Richmond, Yokohama, Japan	29.97	761.2	63	17.2	95	nnw.			3		10		nnw.	0.40	10.2			raining.
S. S. Oceanic, N. 39° 37′, W. 152° 40′	30.47	773.9	65	18.3	95	sw.			4		5			0	0	2	var.	fair.
S. S. City of Chester, off Cape Mendocino, Cal.†	29.84	757.9	52	11.1	100	nw.			4							h'vy	sw.	overcast.
S. S. Columbia, N. 40° 23′, W. 124° 32′†	29.88	758.9	53.5	11.9	93	n			2		6		nw.			mod	nw.	cloudy.
S. S. Dakota, Victoria, B. C			53	11.7	80	w.			2		0			0	0	sm'h		foggy.
S. S. Orizaba, N. 33° 43′, W. 118° 15′ *†	29.93	760.2	63	17.2	66	w.			3		10		wsw.	0	0	long	wsw.	cloudy.
S. S. Queen of the Pacific, N. 37° 59′, W. 123° 05′†	29.91	759.7	54	12.2	100	sse.			4		0			0	0	h'vy	nw.	cloudy.
S. S. Victoria, Columbia River, Oregon †	29.80	759.9	58	14.4	88	calm			0		8		wsw.					fair.
S. S. City of New York, N. 8° 17′, W. 162° 38′†	29.87	758.7	84	28.9	75	e.			4		8		e.	0	0	sm'h		cloudy.
S. S. City of Pekin, Hong Kong, China†	29.99	761.7	76	24.4	91	e.			2		5		ene.	0	0			fair.
S. S. City of Tokio, Yokohama, Japan †	29.98	761.5	67	19.4	89	nnw.			4		10		n.	24 h'r	24 h'r			heavy rain.
S. S. City of Rio de Janeiro, N. 37° 32′, W. 169° 38′ †	29.99	761.7	65	18.3	94	ne.			3		5		ne.	0	0	mod.	ne.	fair.
S. S. Colima, N. 27° 58′, W. 116° 08′†	30.04	763.0	67	19.4	60	ball.			3		10		wnw.	0	0	mod.	nw.	cloudy.
S. S. Granada, N. 10° 47′, W. 86° 31′†	29.89	759.2	81	27.2	83	nne.			3		0			0	0	light	ne.	clear.
S. S. San Blas, Panama, Panama†	29.91	759.7	81	27.2		nw.			2		10		nw.	24 h'r	24 h'r			raining.
S. E. B. Sutton, N. 9° 15′, W. 118° 00′*†	29.94	760.5	77	25.0	95	wsw.			2		10					h'vy	var.	raining.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Storm King, N. 6° 47′, W. 113° 04′ *†	29.96	761.0	.....	.....	.....	s.	.....	.....	1	.....	2	.....	s.	0	0	sm'h	var.	clear.
U. S. S. Palos, Canton, China	29.97	761 2	80	26.7	58	calm	.....	.....	0	.....	10	.....	calm	.....	.....	.....	.....	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.88	758.9	81.3	27.4	91	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	thund'r st'm
H. M. S. Mutine, S. 10° 00′, W. 78° 58′	29.98	761.5	64	17.8	.....	se.	.....	.....	2	.....	10	.....	.....	.....	.....	2	se.	overcast.
H. M. S. Nelson, Sydney, N.S. W	29.45	748.0	52	11.1	80	wnw.	.....	.....	5	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Iroquois, Callao, Peru	30.02	762.5	62	16.7	88	se.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili *	30.08	764.0	59	15.0	82	ssw.	.....	.....	1	.....	2	.....	s.	.....	.....	.....	.....	clear
U. S. S. Onward, Callao, Peru*†	30.12	765.0	60	15.6	94	sse.	.....	.....	2	.....	10	.....	sse.	.....	.....	mod.	w.	misty.
U. S. S. Wachusetts, S. 24° 43′, W. 70° 48′*	30.09	764.3	60	15.6	88	s.	.....	.....	1	.....	8	.....	s.	.....	.....	sm'h	.....	cloudy.
S. S. Australia, Sydney, N. S. W	30.09	764.3	69	20.6	80	nnw.	.....	.....	3	.....	3	.....	nw.	0	0	.....	.....	hazy.
S. S. City of Sydney, S. 33° 55′, W. 152° 51′*†	30.01	762.2	66	18.9	84	nne.	.....	.....	5	.....	6 k	.....	nne.	.....	.....	mod.	nne.	fair.
Bk. Godeffroy, S. 51° 29′, W. 81° 10′	29.95	760.7	41.0	5.0	47	wsw.	.....	.....	4-5	.....	7	.....	wsw.	4 h'r	4 h'r	long	sw.	cloudy.
S. Sovereign of the Seas, S. 16° 24′, W. 92° 33′ *†	30.15	765.8	69	20.6	85	calm	.....	.....	0	.....	3	.....	.....	0	0	h'vy	sw.	fair.
S. Armenia, S. 8° 30′ W. 124° 40′ *	29.87	758.7	77	25.0	82	ene.	.....	.....	4	.....	6f	.....	ene.	0	0	r'gh	se.	cloudy f.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.01	762.2	66	18.9	.....	se.	.....	.....	4	.....	.....	.....	.....	.....	.....	mod.	sse.	overcast.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.05	763 3	78	25.6	91	wnw.	.....	.....	1	.....	7	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.07	763.8	79	26.1	91	sse.	.....	.....	1	.....	2	sse	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab River, Turkey	30.03	762.7	92.5	33.6	45	nw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	misty.
S. S. Benledi, S. 8° 30′ E. 32° 30′*	29.95	760.7	91	32.8	51	nne	.....	.....	4-5	.....	0	.....	.....	0	0	sm'h	.....	hazy.
Bk. Bore, S. 27° 52′, E. 40° 45′ *†	29.93	760.2	78	25.6	.....	sse.	.....	.....	3	.....	9	.....	e.	0	0	sm'h	se.	cloudy.
S. Frank N. Thayer, S. 23° 00′, E. 58° 48′*†	30.24	768.1	76.5	24.7	79	sse.	.....	.....	1	.....	1	.....	sse.	0	0	h'vy	ssw.	blue sky.
Bk. Great Surgeon, S. 39° 29′, E. 40° 53′ *†	30.70	779.8	56	13.3	.....	nne.	.....	.....	2	.....	5	.....	ne.	0	0	long	sw.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 5, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.17	766.4	72.0	22.2	69	e.			1		8			0	0	very cloudy	Roziere.
Algiers			30.04	762.9	69.1	20.6	48	e.			3		0			1.961	49.8	clear	Thève.
La Calle			29.93	760.2	62.6	17.0	84	w.			4		5			0.512	13.0	cloudy	Fonfrède.
Tunis			29.96	760.9	70.5	21.4	70	w.			3		3			0.067	1.7	pretty fair	Delord.
Saida			30.07	763.7															Pérès.
Tebessa			30.01	762.2	53.6	12.0	89	w.			2		4			1.969	50.0	cloudy	St. Martin.
Geriville					60.8	16.0	32	nw.			3		3			0	0	pretty fair	Forfert.
Laghouat			30.07	763.8	72.7	22.6	21	nw.			1		2			0	0	fair	Abraham.
Biskra			30.04	762.9	73.8	23.2	59	w.			1		1?			0	0	very cloudy?	Gouzon.
Australian.																			
Adelaide, South Australia			30.03	762.7	45.7	7.6	88	sw.	9	4.0			5 k			0.027	0.7	fair	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.68	753.9	29.77	756.1	49.8	9.9	93	wsw.	11	4.9			10			0.11	2.8	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.14	740.2	29.69	754.1	51.3	10.7	79	ne.			1		10			0.331	8.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.90	734.1	29.67	753.5	50.4	10.2	74	w.	6.3	2.8			10			0.028	0.7		Dr. Wierzbiski
Eperies	28.77	730.8	29.63	752.5	57.2	14.0	76	calm			0		10 s			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.24	717.3	29.64	752.8	59.4	15.2	82	s.			1		10			0.016	0.4		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.39	721.2	29.74	755.3	48.4	9.1	70	sw.			1		4			0	0		The Staff.
Lemberg	28.70	729.0	29.67	753.6	56.7	13.7	74	se.			2		10			inap.	inap.		Dr. T. Stanecki.
Pola	29.52	749.8	29.63	752.6	58.5	14.7	98	ne.			3		10			0.268	6.8		I. R. Hydrographic Office.
Szathmar	29.15	740.4	29.61	752.0	57.2	14.0	79	s.			4		8			0.071	1.8		Joseph Midlinszky, S. J
Szegedin	29.29	744.0	29.57	751.0	61.0	16.1	85	s.			2		10			0	0		Karl Stricel.
Trieste	29.57	751.0	29.67	753.5	62.4	16.9	54	n.			1		6			0.008	0.2		Royal Academy.
Vienna	29.03	737.4	29.76	755.8	44.4	6.9	90	nw.			1		10			0.181	4.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.96	761.0	30.06	763.5	51.6	10.9	57	wnw.	23	10.3			5			0.030	0.8	squally	W. Boswell.
Armagh, Observatory	30.03	762.7	30.27	768.8	52.2	11.2	74	nw.	7	3.1			10					overcast	S. Call.
Bidston, Liverpool Obs'y			30.13	765.3	53.0	11.7	80	wnw.	26	11.6			10					overcast	John Hartnup.
Bolton, Sharples	29.57	751.1	30.11	764.8	50.4	10.2	88	nw.	0	2.7			10					gloomy	Thomas Mackereth.
Bradford, Yorkshire	29.68	753.9	30.08	764.0	50.1	10.1	84	sw.			3		10			0	0	raining	McLandsborough & Preston.
Cardington	30.00	762.0	30.11	764.8	55.2	12.9	61	nw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.92	760.0	30.09	764.3	51.3	10.7	64	n.			2		8			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.05	763.3	30.28	769.1	54.6	12.6	66	nnw.			4		9					d. clouds	The Staff.
Fort Napier, Natal	27.87	707.9	30.10	764.5	85.8	29.9	52	e.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.77	756.1	30.00	762.0	82	27.8	91	n.			6		1					d clouds	J. W. Smith.
Galway, Queen's College	30.27	768.8	30.30	769.6	53	11.7	73	wnw.			2		7			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.08	764.0	30.13	765.3	68.9	20.5	92	nw.			5		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.94	760.5	30.14	765.5	51.6	10.9	65	w.			3	c	7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.93	760.2	30.11	764.8	52.6	11.4	54	nnw.			4		8					d. clouds	The Staff.
Guernsey	29.93	760.2	30.23	767.8	53.5	11.9	64	n.			1		9					overcast	A. Collenette, F. M. S
Kew, Observatory	30.08	764.0	30.12	765.0	51.8	11.0	51	nnw.	13	5.8			7					d. clouds	The Staff.
Leicester, Museum	29.84	757.9	30.10	764.5	53.0	11.7	65	nw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.78	756.4	29.86	758.4	74.4	23.6	94	w.			3		10			1.38	35.1	overcast	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.10	764.5	82.5	28.1	73	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.62	752.3	30.14	765.5	50.4	10.2	86	nw.			2		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.90	759.4	30.13	765.3	52.4	11.3	69	nnw.			3		5					misty	The Staff.
Plymouth	30.16	766.1	30.23	767.8	56.1	13.4	66	nw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.90	759.4	30.00	762.0	48	8.9	85						5					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	90.8	32.7	26	calm			0		1					misty	W. H. Lyne.
Sheffield	29.81	757.2	30.07	763.8	51.8	11.0	88	calm			0		10			0.05	1.3	raining	W. F. Cooper.
Silloth Rectory	30.09	764.3	30.12	765.0	51.3	10.7	84	nw.			2		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	51.1	10.6	76	w.	10	4.5			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					52.7	11.5	70	nw.			1.3		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.24	765.1	30.32	770.1	58	14.4	70	nw.			6		8					gloomy	W. Newcombe.
Valencia, Observatory	30.39	771.9	30.42	772.7	54.5	12.5	69	n.	13	5.8			10					d. clouds	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.55	750.6	29.94	760.5	71.2	21.8	59	sw.	14.9	6.7		0	6 n		sw.	1.18	30.0	raining	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.91	759.7	29.94	760.5	36.0	2.2		nw.	3	1.3		5 ck	0	n.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.85	758.2	29.89	759.2	37	2.8	70	w.	12	5.4		2 c	2 s; sk	sw.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.90	759.4	29.96	761.0	35	1.7	66	nw.	10	4.5		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.08	764.0	30.28	769.1	33.1	0.6	75	nw.			1	0	7 s			inap.	inap.	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.90	759.4	29.95	760.7	35.0	1.7		w.			2	0	ks			0	0	d. clouds	H. A. Johnson.
Edmonton, N. W. T *	27.46	697.5			40	4.4	100	w.	4	1.8			10 n			inap.	inap.	raining	Alex. Taylor.
Father Point, Quebec*	30.01	762.2	30.03	762.7	36	2.2	85	wnw.	15	6.7		5 cs	2 k	nw.	nw.	inap.	inap.	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.13	739.9	29.98	761.5	42	5.6	89	se.	13	5.8			10 s		se.	0.06	1.5	light rain	James Stewart.
Fredericton, N. B	30.01	762.2	30.07	763.8	33.0	0.6	70	nw.	11	4.9		1 c	0			0	0	fair	Prof. Thos. Harrison
Grand Manan, N. B	30.03	762.7	30.09	764.3	37	2.8	82	nw.	14	6.3		2 k	0	n.		0	0	fair	J. Chipman Seeley
Granton, Ontario	29.24	742.7	30.40	772.1	29.0	— 1.7	80	calm	0	0			10			0	0	gloomy	Jas. Grant.
Halifax, N. S*	29.85	758.9	30.01	762.2	36	2.2	82	w.	8	3.6		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.94	760.5	30.45	773.4	32.9	0.5	90	sw.			1	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.02	762.5	30.37	771.4	36	2.2	69	nw.	3	1.3		8 c	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.79	756.7	29.83	757.7	38.2	3.4	90	w.			4	5 ck	0	w.		0	0		C. H. Rigby.
London, Ontario	29.42	747.3	30.37	774.4	27.6	— 2.4	94	calm			0	0	8 ks?			0	0	blue sky?	E. B. Reed.
Medicine Hat, N. W. T	27.35	694.7	29.61	752.1	45	7.2	89	s.	7	3.1			10 n			0.30	7.6	cloudy	John Ewart.
Minnedosa, N. W. T	27.92	709.2	29.83	757.7	40	4.4	92	e.	16	7.2			fg.			0.31	7.9	dense fog	Rev. J. M. Wellwood.
Montreal, Quebec*	30.07	763.8	30.29	769.4	35	1.7	69	nw.	17	7.6		5 ck	5 ks	nw.	nw.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.10	764.5	30.33	770.4	34.0	1.1	86	w.				0	8 k			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.64	752.8	30.38	771.6	29	— 1.7	88	ne.	1	1.8		2 k	0	ne.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.61	752.1	30.39	771.9	32.7	0.4	58	calm			0	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.59	751.6	30.31	769.9	44	0.7	89	ne.	13	5.8			10 n			c	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.64	752.8	30.35	770.9	32	0.0	90	nw.	1	0.4		0	0			0	0	clear	[illegible] Morgan
Port Stanley, Ontario	29.64	752.8	30.32	770.1	35	1.7	79	e.	10	4.5			10 n		e.	0	0	cloudy	M. Pavne.
Qu Appelle, N. W. T	27.56	700.0	29.83	757.7	42	5.6	100	se.	8	3.6			10 n		calm	0.39	9.9	foggy	Leslie Gordon.
Quebec, Quebec*	29.80	756.9	30.17	766.3	33	0.6	81	w.	6	2.7		2 k	0	w.		0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.89	759.2	30.37	771.4	32	0.0	88	w.	3	1.3		8 ck	0	nw.		0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.02	762.5	30.07	763.8	38	3.3	62	nw.	2	0.9		0	0			0	0	clear	
St. John, N. B	29.90	759.4	30.05	763.3	35.1	1.7	69	nw.	12	5.4		2 k	0	nw.		0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.70	754.4	29.96	761.0	41	5.0	91	w.			2	0	5 ks			0.01	0.3	fair	J. Higgins.
St. Pierre, N. F			29.76	756.0	48.2	9.0		n.			4					0.118	3.0		The Commandant.
Saugeen, Ontario*	29.63	752.6	30.38	771.6	29	— 1.7	100	calm?	6?	2.7?		0	0			0	0	clear	
Stratford, Ontario	29.10	739.1	30.40	772.1	27.0	— 2.8	94	calm	0	0			10 s			0	0	d. clouds	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instruments, error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CANADIAN.—Continued.																			
S. W. Point, Anticosti	29.71	754.6	29.75	755.6	35	1.7	85	nw.			5	2 ck	5 ks	nw.	nw.	0	0	clearing	Miss Grace Pope.
Sydney, C. B.	29.79	756.7	29.85	758.2	40	4.4	82	w.	10	4.5		2 c	2 k		w.	0.02	0.5	clear	A. C. Hill, C. E.
Toronto, Ontario*	29.98	761.5	30.39	771.9	34	1.1	79	nw.	8	3.6		0	5 ks		w.	0	0	smoky	Magnetic Observatory.
Woodstock, Ontario	29.29	744.0	30.43	772.9	27.0	— 2.8	95	n.	2	0.9			10 s			0	0	hazy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.00	762.0	30.07	763.8	41	5.0	70	nw.	16	7.2		0	2 k		nw.	0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House.	30.23	767.8	30.26	768.6	65.5	18.6	86	calm	13.5	6.0		0	7 s			0	0	fine	L. Garfelt.
Springbok Fontein	27.88	708.1			81	27.2	36									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	30.02	762.6	30.10	764.6	53.6	12.0	94	s.			1		10					misty	Samuel Redolez.
Iquique	30.01	762.3	30.04	763.0	63.0	17.2	73	sw.			2							cloudy	Rafael Moreno.
Niebla	29.34	745.2	29.45	747.9	54.3	12.4	90	nw.			7	0	5		nw.	1.024	26.0	raining	Federico Köhling.
Punta Caldera	30.01	762.3	30.10	764.5	56.3	13.5	83	nw.			2	0	9 n		ne.			fair	Manuel Tobar.
Punta Corona	29.79	756.7	29.98	761.5				e.			2	10				0	0	cloudy	Francisco Alvarado.
Valparaiso	29.77	756.2	29.91	759.8	56.3	13.5	89	sw.			1	0	7					fair	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.28	642.1																	A. Gueluy.
Zi-Ka-Wei, near Shanghai.	30.00	762.0	30.03	762.7	59.9	15.5	89	nne.	1.8	0.8		1 ck	0			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.63	752.7	29.68	753.9	52.0	11.1	73	nne.	13	6			9						Oversergent Fischer.
Fanoe	29.76	755.8	29.78	756.3	53.6	12.0	51	ne.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.29	744.0	29.34	745.1	33.4	0.8	82	wnw.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.06	738.2	29.11	739.4	31.6	— 0.2		n.			2		6						
Stykkisholm, Iceland	29.89	759.1	29.93	760.2	46.6	8.1	67	sw.			2		8						A. O. Thorlacius.
Thorshavn	29.92	759.9	29.94	760.5	49.3	9.6	83	nw.	13	6			7					raining	Overloerer Bergh.
Vestervig	29.71	754.7	29.80	757.0	47.5	8.6	71	ne.			2		10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.80	756.8			94.5	34.7		n.	6.9	3.1			0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.55	750.5	30.21	767.2	53.1	11.7	65	n.			1	ck				0.79	20.		M. Labroue, Director.
Alençon, Normal School	29.71	754.5	30.26	768.5	50.7	10.4	93	sse.			1		5		nnw.	0.213	5.4	cloudy	M. Nicot, Director.
Avignon, Normal School	29.84	757.9	29.92	759.9	52.5	11.4	80	n.			2		8		nnw.	0.016	0.4	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.42	747.2	29.97	761.3	51.6	10.9	74	ene.			1		8 kn		nne.	0.441	11.2	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.79	756.6	30.05	763.3	53.4	11.9	74	nw.			2		10		nnw.	0.24	6.	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.96	735.6	29.84	757.9	46.9	8.3	92	n.			2		10		s.	0.04	1.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.94	760.5	30.21	767.2	57.0	13.9	50	nw.			2		10		n.	0.016	0.4	covered	M. Rayet, Director.
Bourges, Normal School	29.53	750.1	30.09	764.3	51.8	11	86	wsw.			1		nk		wsw.	0.322	8.2		M. Malet, Director.
Brest, Naval Observatory	30.05	763.2	30.29	769.4	55.8	13.2	66	n.			2		4		n.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.08	764.0	30.16	766.0	52.5	11.4	69	nnw.			1					0.12	3.		M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.61	752.1	29.93	760.2	49.1	9.5	93	nw.			2		2		nnw.	0.319	8.1	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.39	746.5	29.91	759.6	53.6	12.0	65	nnw.			4		10			0.118	3.0	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.65	727.8	30.02	762.5	50.4	10.2	60	nnw.			4		10		nnw.	0.437	11.1		M. Allnard, Director.
Cluny, Normal School	29.14	740.1	29.99	761.8	46.8	8.2	81	nw.			2				nw.	0.488	12.4		M. de Villemontée, Dir.
Commercy, Normal School.	29.08	738.7	29.94	760.5	51.6	10.9	86	sw.			1		2 k	sw.	sw.	0.335	8.5	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.29	693.1	29.82	757.4	49.1	9.5	81	s.			6		5 kn		sw.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.70	728.9	29.82	757.4	53.1	11.7	54	nw.			8		3		nw.	0.205	5.2		M. Kina, Director.
Grenoble, Normal School	29.16	740.7	29.98	761.5	39.6	4.2	97	nw.			6		kn		n.	0.63	16.		M. Ablard, Directoor.
Guéret, Normal School	28.50	723.9	30.08	763.9	47.5	8.6	80	nw.			8		n		nw.	0.12	3.		M. Delorme, Dir.
Lamballe, Normal School	29.89	759.1	30.16	766.1	56.3	13.5	64	nnw.			2		5		nnw.	0.24	6.	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.62	752.4	30.19	766.7	58.8	14.9	60	w.			1		8			1.118	28.4	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.3	30.27	768.9	58.3	14.6	61	nnw.			1		10	calm	n.	0.157	4.0	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.92	734.5	30.00	762.1	44.2	6.8	85	nw.			2		10 n		n.	0.114	2.9	covered	M. André, Director
Mans, Normal School	29.88	758.9	30.19	766.9	52.7	11.5	61	nne.			1		8		nne.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.59	751.6	29.86	758.4	58.6	14.8	51	nw.			5–6		10		nw.	0	0		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	37.4	3.0	66	ne.	15.0	6.7			8		n.	0.094	2.4		M. Cave for Dr. Fines.
Montpellier, Normal School	29.82	757.3	29.93	760.0	60.4	15.8	64	wsw.			6		2	s.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.09	738.9	29.88	758.9	49.3	9.6	94	nw.			2		n		w.	0.295	7.5		M. Hasse, Director.
Nantes, Observatory	30.08	764.0	30.24	768.1	54.3	12.4	98	n.			1		8 kn; k		n.	0	0		M. Laroque, Director.
Perpignan, Observatory	29.91	759.7	30.02	762.6	60.4	15.8	44	nw.	33.5	15.0			10		nw.	0.008	0.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.20	538.5			23.0	— 5.0		n.			2–4		5			0.953	24.2	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.22?	742.1?	30.28?	769.2?	61.2	16.2	52	n.			1		0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.04	635.9			31.6	— 0.2	100	nw.			10		10			0.642	16.3	snow & fog	M. Allnard.
Rochefort, Naval Obs'y	30.15	765.7	30.18	766.5	57.2	14.0	65	nw.			2		10		nnw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.6	30.20	767.1	52.5	11.4	71	n.			1		10		n.	0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.95	709.9	30.10	764.4	46.4	8	91	nw.			4		1		e.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.06	763.5	30.11	764.7	52.9	11.6	83	n.			4		5	nne.		0.583	14.8	cloudy	M. Mouillot, Dir.
St Lô	30.06	763.4	30.20	767.1	50.5	10.3	78	n.			1		10		n.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.98	759.0	30.05	763.2	50.7	10.4	92	nw.			2		10		nnw.	0.260	6.6		M. Renou, Director.
Toulouse, Observatory	29.47	748.4	30.19	766.9	54.5	12.5	60	nw.			6		10	nw.		0	0	covered	M. Baillard, Director.
Tours	29.94	760.5	30.12	765.0	55.8	13.2	57	nnw.			2		10		nnw.	0.028	0.7	covered	M. de Tastes.
Versailles, Observatory	29.52	749.8	30.01	762.3	49.3	9.6	89	n.			6		10			0.055	1.4	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.10	764.6	30.25	768.4	59.2	15.1	89	n.	9.8	4.4			7 k			0.709	18.0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.34	719.8	29.80	756.8	48.6	9.2	58	nw.			2		6	nw.		0.130	3.3		Prof. Jnedt.
Bamberg	28.93	734.7	29.76	755.9	49.8	9.9	66	nw.			1		8 k		w.	0.142	3.6	raining	Prof. Dr. Hoh.
Berlin	29.43	747.5	29.58	751.2	48.9	9.4	100	n.			1		10			0.539	13.7	raining	Dr. Lensch.
Breslau	29.17	740.8	29.69	754.1	48.0	8.9	70	wnw.			1		10			0	0		Royal University Obs'y.
Carlsruhe	29.41	746.9	29.86	758.5	51.8	11.0	70	ne.			1		9	ne.		0.244	6.2	raining	Albert Senz.
Cassel	29.06	738.1	29.77	756.2	48.9	9.4	83	w.			4		8	nw.		0.110	2.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.47	748.6	29.84	757.9	52.7	11.5	63	n.			1		10			0.016	0.4		Physical Society.
Friedrichshafen	28.43	722.0	29.86	758.5	45.3	7.4	80	wsw.			3		10	w.		0.035	0.9		Wilhelm, Chief Tel.
Hamburg	29.64	752.8	29.73	755.1	52.5	11.4	52	n.			4		3			0	0		E. Preiler.
Kiel	29.68	753.8	29.69	754.2	52.2	11.2	71	nw.			4		9			0.031	0.8		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.28	743.8	29.71	754.5	43.2	6.2	100	w.			2		10	wnw.		1.106	28.1	heavy rain	H. Leppig, Asst.
Magdeburg	29.46	748.3	29.65	753.1	49.6	9.8	92	nw.			2		10	wnw.		1.051	26.7		Weather Observatory.
Memel	29.61	752.0	29.65	753.2	53.8	12.1	85	sse.			2		10 cs						Issermann.
Munich	27.94	709.7	29.79	756.6	49.1	9.5	55	nw.			2		9	nw.		0.068	0.2		Central Station.
Neufahrwasser	29.58	751.4	29.60	751.8	50.5	10.3	92	se.			1		10			0.433	11.0	raining	A. Lothes.
Neustadt, Palatinate	29.30	744.2	29.82	757.4	53.4	11.9	59	n.			1		4	n.		0	0		Dicknether.
Stuttgart	28.86	733.1	29.76	755.8	50.0	10.0	68	nw.			1		7	n.		0.154	3.9		Prof. Dr. Schoder.
Wustrow	29.63	752.6	29.66	753.3	52.3	11.3	73	nne.			2	c	10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.47	748.5	29.84	757.9	81.5	27.5		s.			4.0		10			0	0	smoky	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.71	754.7	29.76	756.0	83.2	28.4	82	wsw.	29.0	13.0			0			0	0	blue sky	
Deesa	29.25	743.3	29.73	755.0	93.3	34.1	43	s.	6.0	2.7			4	s.		0	0	d. clouds	
Bombay	29.81	757.1	29.84	758.0	81.3	27.4	74	ne.	8.0	3.6			10		nw.	0	0	overcast	
Poona, Yarrowda	27.97	710.4	29.85	758.1	71.8	22.1	89	wnw.	15.0	6.7			8			0.35	8.9	d. clouds	
Trichinopoly	29.55	750.5	29.83	757.6	82.3	27.9	75	w.	0.2	0.1			10			1.55	39.4	overcast	
Bellary	28.32	719.3	29.79	756.6	78.5	25.8	76	nw.	2.0	0.9			10			0	0	gloomy	
Belgaum	27.33	694.2	29.90	759.4	69.6	20.9	95	wsw.	4.0	1.8			10	w.		2.21	56.1	d. clouds	
Lahore	28.98	736.0	29.71	754.6	84.0	28.9	57	calm	0	0			0			0	0	blue sky	
Roorkee	28.80	731.5	29.69	754.0	84.8	29.3	51	calm	1.0	0.4			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.16	740.7	29.71	754.6	94.1	34.5	26	w.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.71	729.3	29.74	755.3	89.2	31.8	42	ene.	5.0	2.2			2	w.		0	0	d. clouds	
Jubbulpore	28.44	722.3	29.78	756.3	85.0	29.4	50	calm	2.0	0.9			2	nw.		0	0	d. clouds	
Lucknow	29.33	745.0	29.70	754.5	87.1	30.6	35	calm	0	0			0			0	0	blue sky	
Allahabad	29.41	747.1	29.72	754.9	85.8	29.9	53	calm	0	0			0			0	0	blue sky	
Patna	29.53	750.1	29.72	754.8	85.2	29.6	58	w.	2.5	1.1			2	w.	w.	0	0		
Hazaribagh	27.76	705.2	29.76	755.8	81.3	27.4	48	nw.	6.3	2.8			0			0	0	blue sky	
Cuttack	29.67	753.6	29.75	755.7	85.9	29.9	71	calm	0	0			3			0	0	d. clouds	
Calcutta, Alipore	29.70	754.3	29.72	754.8	86.7	30.4	73	w.	1.5	0.7			2			0	0	d. clouds	
Dhubri	29.61	752.1	29.73	755.1	79.7	26.5	89	calm	1.2	0.5			0			1.56	39.6	blue sky	
Chittagong	29.64	752.9	29.73	755.2	82.7	28.2	83	w.	2.0	0.9			2			0	0	d. clouds	
Sibsagar	29.40	746.8	29.74	755.3	83.0	28.3	85	sw.	1.0	0.4			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.33	719.6	29.74	755.3	93.0	33.9	29	wnw.	5.8	2.6			3		w.	0	0	d. clouds	
Zanzibar	30.06	763.5			85.7	29.8	49	sse.	3.7	1.7			2	ese.		0	0	d. clouds	
ITALIAN.																			
Udine	29.24	742.6	29.64	752.9	61.0	16.1	57	calm	0	0			5			0.685	17.4		Prof. Giovanni Clodig.
Milan	29.17	740.8	29.68	753.9	56.8	13.8	46	sw.	3.8	1.7			6	wsw.		0.157	4.0		Prof. G. V. Schiapparelli
Padua	29.64	752.9	29.75	755.7	56.7	13.7	71	ne.	3.1	1.4			2	n.		0.173	4.4		Prof. Dott. Lorenzoni.
Moncalieri	28.80	731.4	29.70	754.4	53.8	12.1	66	n.	1.8	0.8			5	ne.		0	0		Prof. F. F. Denza.
Genoa	29.45	748.1	29.65	753.0	60.3	15.7	34	n.	1.3	0.6			6	sw.		0.004	0.1		Prof. G. M. Garibaldi.
Mondovi	27.78	705.5	29.69	754.2	52.3	11.3	61	ne.			4		3			0	0		Prof. D. C. Bruno.
Pesaro	29.67	753.6	29.72	754.8	64.0	17.8	59	sw.	2.5	1.1			10	w.		0.087	2.2		Prof. Luigi Guidi.
Florence	29.38	746.2	29.63	752.6	62.6	17.0	58	s.			2		5			0.240	6.1		Prof. Costantino Pittei
Leghorn	29.49	749.1	29.58	751.3	61.9	16.6	54	s.	18.1	8.1			3	w.		0.295	7.5		Prof. P. Monte.
Rome	29.47	748.5	29.64	752.9	64.9	18.3	54	s.	10.5	4.7			10	s.		0.319	8.1		Prof. P. Tacchini.
Lecce	29.48	748.7	29.73	755.1	70.5	21.4	56	wsw.	16.1	7.2			4	sw.		1.102	28.0		Prof. C. de Giorgi.
Cosenza	28.84	732.4	29.71	754.7	71.6	22.0	66	wsw.	2.5	1.1			3	sw.		1.008	25.6		Prof. D. Conti.
Cagliari	29.60	751.8	29.79	756.6	65.3	18.5	49	nw.			6		6			0.031	0.8		Prof. A. Pacinotti.
Palermo	29.54	750.2	29.78	756.5	72.3	22.4	48	w.	17.4	7.8			5	w.		0.898	22.3		Prof. G. Cacciatore.
Syracuse	29.74	755.5	29.79	756.6	71.4	21.9	58	w.	18.1	8.1			6	w.		1.575	40.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.19	741.3	29.70	754.4	59.7	15.4	87	wsw.	6.3	2.8			10	ne.		0.205	5.2	raining	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.92	759.9	29.95	760.8	56.1	13.4	99	w.			2	4c;cs	0	sw.		0.020	0.5	fair	H. Hattori.
Awomori	29.89	759.2	29.93	760.2	55.3	12.9	88	s.	4.1	1.8		0	1 s			0	0	clear	K. Ogawa
Hamamatsu	29.77	756.1	29.87	758.6	67.6	19.8	96	e.			2		10 n			0.008	0.2	raining	Sekigawa & Yamazaki.
Kagoshima	29.86	758.4	29.87	758.7	69.0	20.6	79	calm			0	3 cs	0			0	0	fair	G. Miyanohaza.
Kanazawa	29.83	757.7	29.93	760.2	65.1	18.4	87	n.	1.0	0.4			10 ks			0.013	0.3	cloudy	S. Endo.
Kioto	29.71	754.6	29.88	759.0	63.8	17.7	89	nw.	0.4	0.2		0	9s;ks			0	0	cloudy	M. Tojima.
Kochi	29.86	758.6	29.89	759.1	67.7	19.8	86	nw.	5.2	2.3		0	1 ck			0	0	clear	K. Kusunose.
Miasaka	29.85	758.2	29.88	758.9	65.2	18.4	87	nne			1	0	0			0	0	clear	K. Masusaki
Miyako	29.86	758.4	29.97	761.2	59.0	15.0	99	w.	0.8	0.4			9 s			0.074	1.9	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.71	754.6	29.91	759.7	65.7	18.7	77	e.	2.7	1.2		0	0			0	0	clear	S. Takehayasu.
Niigata	29.90	759.4	29.94	760.5	61.3	16.3	93	calm	0	0		0	2 s			0.030	0.8	fair	Satoo & Tomikawa.
Nobiru	29.93	760.2	29.95	760.6	62.0	16.7	97	n.	2.3	1.0			10ks;s			0.020	0.5	covered	Yoslino & Midzushima.
Numazu	29.86	758.4	29.89	759.3	67.0	19.4	82	se.			4		10 ks			0.043	1.1	cloudy	R. Kaneda.
Osaka	29.88	759.0	29.90	759.4	66.0	18.9	82	nne.	3.2	1.4			10 s			0	0	cloudy	H. Omura.
Sakai	29.96	760.9	29.97	761.1	68.4	20.2	66	n.			2	0	1 ks		n.	0.023	0.6	clear	Yamawchi&Sakamoto.
Shimonoseki	29.80	757.0	29.95	760.7	65.3	18.5	83	calm			0	0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.85	758.2	29.93	760.1	63.4	17.4	99	nne.	6.3	2.8			10 n			0.170	4.3	raining	The Staff.
Wakayama	29.85	757.5	29.87	758.6	70.1	21.2	70	ne;nne.	3.0	1.3			10 ck			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.01	762.2	30.20	767.1	70.5	21.4	71	se.	20.0	8.9			8k;ks		se.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.43	620.5	30.16	764.5	63.0	17.2	86	nnw.	0.9	0.4		5 c	5n;s	e.		inap.	inap.	covered	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	762.0	76.0	24.4	91	ne.	1.6	0.8			10 n		sw.	0	0	covered	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.97	761.2	29.97	761.2	55.0	12.8		nnw.			5					0.630	16.0		
Groningen	29.77	756.2	29.83	757.6	51.3	10.7		n.			5					0.055	1.4		
Helder	29.89	759.3	29.89	759.3	53.8	12.1		nnw.			4					0.169	4.3		
Hellevoetsluis	29.93	760.3	29.93	760.3	54.9	12.7	87	n.			2					0.374	9.5		
Utrecht	29.86	758.4	29.91	759.6	55.9	13.3	62	n.			2		5			0.071	1.8	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.89	759.3			80.1	26.7	73	n.	0	0			4			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.76	756.0	29.83	757.6	47.1	8.4	55	nnw.	7	3			6			0	0		
Brono	29.89	759.1	29.93	760.1	38.3	3.5	49	calm			0		2			0	0		
Christiania	29.69	754.2	29.84	758.0	46.0	7.8	45	ene.	9	4			2			0	0		
Gjæsvær	29.88	758.9	29.90	759.5	31.1	— 0.5		n.			6		10						
Lodingen	29.89	759.2	29.94	760.4	36.3	2.4	61	calm			0		5			0	0		
PORTUGUESE.																			
Angra, Azores					69.1	20.6	78	nw.	3.1	1.4			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.29	769.4	30.38	771.6	73.9	23.3	50	sw.	3.8	1.7			1		n.	0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.91	759.6	30.24	768.1	65.5	18.6	54	nne.	9.8	4.4			2			0.024	0.6		The Staff
Ponta Delgada, Azores	30.55	776.0	30.62	777.8	71.2	21.8	72	ne.	9.4	4.2			4			0	0		
Saint Paul de Loando	29.80	756.8	30.00	761.9	75.2	24.0	84	w.	1.3	0.6			9			0	0		
San Salvador, Congo	28.17	715.5	30.00	762.1	78.1	25.6	66	n.			2		10			0	0		
Serra da Estrella	25.47	647.0	30.27	768.8	45.9	7.7	53	ese.	16.8	7.5			3			2.535	64.4		
RUSSIAN.																			
Akmolinski	28.69	728.7	29.74	755.5	56.5	13.6	38	w.	16	7		5 ck	0			0	0		Major K. Lasarew.
Archangel	29.57	751.0	29.59	751.5	34.9	1.6	89	n.	9	4			10			0	0		Capt. Sselliwerstow
Ashuruda	30.00	761.9	29.90	759.5	83.8	28.8	74	nw.	9	4		0	2 ks			0	0	light clouds	
Astrakhan	29.89	759.1	29.82	757.3	75.4	24.1	32	w.	40	18		c	4 s			0	0	light clouds	Capt. Wisganow.
Baku	29.98	761.6	29.94	760.4	79.9	26.6	53	n.	18	8		1 c	0			0	0		
Barnaul	29.13	739.8	29.61	752.0	62.4	16.9	40	sw.	18	8			10			inap.	inap.		Meteorological Obs'y
Bielosersk	29.19	741.5	29.67	753.5	42.3	5.7	91	w.	16	7			10 ks			0.024	0.6		
Dorpat	29.44	747.9	29.69	754.1	47.1	8.4	92	sw.	9	4			10 n			0.571	14.5	light rain	Observatory.
Ekaterinburg	28.69	728.7	29.65	753.2	43.0	6.1	90	nw.	4	2			10 n			0.012	0.3	raining	Meteorological Obs'y.
Elissawetgrad	29.48	748.7	29.92	760.0	58.6	14.8	89	sse.	9	4			10 s;n			0.122	3.1		
Irkutsk	28.28	718.3	29.90	759.5	52.3	11.3	66	se.			1		2			0	0		
Kasalinsk					76.3	24.6	30	sw.	22	10			9 n			0	0		
Kasan	29.45	748.0	29.72	754.8	51.8	11.0	76	wsw.	2	1			9 k			0	0		Observatory.
Kem	29.69	754.1	29.74	755.4	33.8	1.0	68	n.	13	6			9 n			0.067	1.7		
Kertch	29.93	760.3	29.96	760.9	73.9	23.3	61	calm	0	0		7 c	0			0	0		Lagorio & Sastyrea.
Kieff	29.22	742.2	29.85	758.1	57.9	14.4	77	se.	7	3		cs	9ks;n			0.343	8.7	light clouds	Observatory.
Koslov	29.37	746.1	29.87	758.7	58.1	14.5	47	w.	4	2		0	5 s			0	0		
Liban	29.62	752.4	29.65	753.0	47.1	8.4	94	n.	7	3			10			0.488	12.4	raining	E. Quaas.
Lugan	29.73	755.1	29.93	760.2	65.1	18.4	58	nw.	4	2			8			0	0		Meteorological Obs'y.
Moscow	29.35	745.6	29.82	757.5	55.0	12.8	60	w.	3.4	1.5		0	4 ks			0	0		Meteorological Obs'y
Nikolaiev	29.79	756.7	29.86	758.5	61.2	16.2	80	calm	0	0			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.63	752.6	29.72	754.8	44.6	7.0	84	calm	0	0			10 n						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mils. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.75	755.6	29.89	759.2	66.0	18.9	83	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.63	752.7	29.97	761.2	80.1	26.7	44	calm	0	0	.....	.....	10 ks	.....	.....	0	0	.....	
Petrozavodsk	29.46	748.2	29.66	753.3	43.2	6.2	57	nw.	11	5	.....	0	8 ks	.....	.....	0.854	21.7	.....	Dr. Bergmann.
Pinsk	29.28	743.7	29.77	756.2	54.9	12.7	77	sse.	13	6	.....	.....	10 n	.....	.....	0	0	.....	
Poti	29.94	760.4	29.97	761.2	87.3	30.7	76	calm	0	0	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.67	753.5	29.69	754.1	47.7	8.7	65	wsw.	9	4	.....	.....	10 n	.....	.....	0.177	4.5	.....	Central Physical Obs'y.
Samarkand	27.61	701.3	30.00	762.0	71.8	22.1	50	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.17	740.8	29.80	757.0	63.5	17.5	45	w.	4	2	.....	.....	5	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.69	754.0	29.89	759.2	81.0	27.2	42	ssw.	27	12	.....	5 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.30	744.3	29.85	758.2	58.6	14.8	54	s.	13	6	.....	.....	9 k	.....	.....	0	0	.....	
Tashkend Laboratory	28.37	720.5	29.97	761.2	75.9	24.4	45	calm	0	0	.....	.....	9 k	.....	.....	0	0	.....	Torch, A. M
Tiflis	28.61	726.6	29.94	760.5	88.2	31.2	19	nw.	20	9	.....	0	7 s	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.50	698.6	29.93	760.2	67.1	19.6	53	calm	0	0	.....	1 c	0	.....	.....	0	0	.....	
Viatka	29.06	738.1	29.69	754.1	45.3	7.4	91	w.	2	1	.....	.....	10	.....	.....	0.031	0.8	.....	
Warsaw	29.23	742.4	29.65	753.0	57.0	13.9	79	sse.	2	1	.....	.....	10 kn	.....	.....	0.035	0.9	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.10	739.0	29.37	746.1	53.4	11.9	85	sw.	31	14	.....	.....	10	.....	.....	0.217	5.5	raining	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.87	758.6	29.95	760.8	69.8	21.0	56	w.	11.2	5.0	.....	2 c	0	.....	.....	0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.27	768.8	30.33	770.3	56.1	13.4	88	nw.	2.5	1.1	.....	.....	10	.....	.....	0.587	14.9	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.31	693.7	30.32	770.2	50.9	10.5	62	n.	8.1	3.6	.....	1	8	sw.	.....	0.264	6.7	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27 98	710.8	30.20	767.1	63.1	17.3	41	ne.	13.4	6.0	.....	0	0	.....	.....	inap.	inap.	clear	The Staff.
Murcia, Met. Obs'y	29.95	760.8	30.07	763.7	72.9	22.7	44	wnw.	4.0	1.8	.....	3	5	se.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.58	751.4	30.34	770.7	52.7	11.5	77	e.	8.3	3.7	.....	.....	10 k	.....	w.	0.024	0.6	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.40	746.8	30.30	769.7	58.1	14.5	66	n.	15.4	6.9	.....	.....	4	.....	.....	0.031	0.8	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.8	30.10	764.5	78.2	25.7	84	ese.	1.1	0.5	.....	cs	1 k	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	756.0	29.82	757.4	81.8	27.7	78	wnw.	26.4	11.8	.....	4 ck	5 kn	.....	nw.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.10	764.6	30.20	767.2	63.9	17.7	73	w.	11.7	5.3	.....	2	8	w.	w.	0.04	1.0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.95	760.7	30.04	763.0	80.2	26.8	86	calm	0	0	.....	1 s	3 k	w.	w.	0	0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Hapsaranda	29.87	758.7	29.91	759.7	29.3	— 1.6	84	n.	.....	.....	4	.....	0	.....	.....	0.567	14.4	.....	
Umea	29.82	757.4	29.87	758.7	34.5	1.4	74	nne.	.....	.....	6	.....	7	.....	.....	0	0	.....	
Hernosand	29.84	757.9	29.89	759.2	37.4	3.0	59	ne.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Stockholm	29.61	752.1	29.79	756.6	37.4	3.0	85	ne.	.....	.....	4	.....	9	.....	.....	0	0	.....	
Wisby	29.62	752.4	29.68	753.9	46.0	7.8	83	ne.	.....	.....	6	.....	10	.....	.....	0.146	3.7	.....	
Sub-series.																			
Upsala	29.71	754.5	29.79	756.7	37.8	3.2	90	nnw.	13.2	5.9	.....	.....	8	.....	une.	0.012	0.3	.....	H.H.Hildebrandesson
Swiss.																			
Geneva	28.50	723.9	29.94	760.4	50.7	10.4	63	ssw.	.....	.....	2	.....	9	.....	.....	0.441	11.2	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.79	756.7	88.9	31.6	33	s	3	1.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	29.88?	758.9?	70.0	21.1	.....	s.	.....	.....	2	.....	10	.....	.....	1.42	36.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.95	760.6	86.5	30.3	65	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.50	673.1	.....	.....	82	27.8	67	calm	.....	.....	0	3 k	5 n	sw.	sw	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.26	768.6	30.34	770.6	40	4.4	73	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.33	770.4	33	0.6	88	nw.	2	0.9	.....	0	fg	.....	.....	0	0	light fog	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	30.04	763.0	36.5	2.5	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.94	684 3	29.86	758.4	50	10.0	66	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	B. O. Lenoir
Atlanta, Georgia	29.04	737 6	30.23	767.8	66.0	18.9	100	e.	6	2.7	.....	.....	hz.	.....	.....	inap.	inap.	dense haze.	Edward A. Beals.
Atlantic City, New Jersey	30.33	770.4	30.34	770.6	44	6.7	68	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.04	763.0	30.23	767.8	69.0	20.6	78	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.34	770.6	30.39	771.9	47	8 3	63	ne.	4	1.8	.....	6ck;cs	0	w.	.....	0	0	fair	Geo. W. Felger.
Barnegat City, New Jersey	30.32	770.1	30.34	770.6	44.0	6.7	76	n.	10	4.5	.....	1 k	0	n.	.....	0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.21	716.5	29.83	757.7	45.0	7.2	96	nw	2	0.9	.....	5 k	5 s	nw.	ne.	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.05	687.1	29.96	761.0	55	12.8	57	sw.	16	7.2	.....	3 c	1 s	.....	.....	0	0	fair	Thomas Morgan.
Bismarck, Dakota	27.97	710.4	29.85	758.2	47.5	8.6	96	se.	6	2.7	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.27	768.8	30.30	769.6	43.5	6.4	56	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. T. Liker
Boise City, Idaho	27.20	690.9	30.06	763.5	47	8.3	96	sw.	1	0.4	.....	.....	10 n	.....	.....	0.11	2.8	light rain	B. E. Light.
Boston, Massachusetts	30.10	764.5	30.26	768.6	38.0	3.3	61	w.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.02	762 5	77.0	25.0	90	calm	0	0	.....	0	3 k	.....	s.	0	0	clear	John McGlone.
Buffalo, New York	29.59	751.6	30.35	770.9	35.8	2.1	79	ne.	4	1.8	.....	0	sk.	.....	.....	0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.79	705 9	29.84	757.9	46	7.8	93	e.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.68	753.9	30.08	764.0	61.6	16.4	96	calm	0	0	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	W. H. Ray.
Canby, Fort, Washington Ter	29.85	758.2	30.05	763.3	54.2	12.3	92	e.	4	1.8	.....	0	6 s	.....	n.	0.19	4.8	fair	O. D. Stewart.
Cape Henry, Virginia	30.28	769.1	30.30	769.6	59.0	15.0	93	ne.	12	5.4	.....	0	7 n	.....	n.	0.01	0.3	light rain	A. K. Alderson
Cape May, New Jersey	30.32	770.1	30.35	770.9	49.0	9.4	44	ne.	8	3.6	.....	3 cs	0	.....	.....	0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.43	747.5	30.12	765.0	51	10.6	93	se.	22	9.8	.....	.....	10 s	.....	se.	0.10	2.5	cloudy	J. J. McLean.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	76.5	24.7	88	n.	5	2.2	.....	2 c	0	sw.	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.12	765.0	30.18	766.6	69.0	20.6	90	n.	6	2.7	.....	0	8 s	.....	n.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.23	767.8	66.0	18.9	93	e.	4	1.8	.....	.....	10 n	.....	ne.	0.02	0.5	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.19	766 8	65.5	18.6	92	s.	8	3.6	.....	9 k	fg.	nw.	.....	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.02	610.1	30.04	763.0	42.9	6.1	43	s.	10	4.5	.....	0	4 s	.....	.....	0	0	fair	E. McGovern.
Chicago, Illinois	29.42	747.3	30.13	765.3	50.0	10.0	86	e.	4	1.8	.....	.....	10 n	.....	e.	0.02	0.5	light rain	Wm. Norrington.
Chincoteague, Virginia	30.31	769.9	30.33	770.4	52	11.1	72	ne.	19	8.5	.....	.....	10 ks	.....	.....	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.50	749.3	30.16	766 1	49.0	9.4	93	s.	5	2.2	.....	.....	10 n	.....	s.	0.95	24.1	light rain	L. Dunne.
Cleveland, Ohio	29.54	750.3	30.28	769.1	42.0	5.6	55	e.	3	1.3	.....	3 c	0	w.	.....	0	0	clear	J. B. Newlin.
Columbus, Ohio	29.34	745.2	30.20	767.1	49	9.4	93	ne.	8	3.6	.....	.....	10 s	.....	sw.	0.12	3.0	threatening	D. Cuthbertson.
Concho, Fort, Texas	28.16	715.3	30.10	764.5	68.3	20.2	93	w.	12	5.4	.....	.....	10 n	.....	w.	0.86	21.8	light rain	C. E. King.
Custer, Fort, M. T	26.68	677.7	29.92	760.0	44	6.7	63	w.	5	2.2	.....	3 c	0	w.	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.35	745.5	30.01	762.2	48	8.9	93	se.	12	5.4	.....	.....	10 n	.....	se.	0.18	4.6	light rain	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	30.20	767.1	53	11.7	77	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	28.27	718.0	30.06	763.5	44.5	6.9	65	sw.	17	7.6	.....	0	2 s	.....	.....	0.10	2.5	clear	D. Moore.
Deadwood, Dakota	25.27	641.8	29.95	760.7	46.2	7.9	65	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.32	770.1	30.34	770.6	49.5	9.7	51	n.	14	6.3	.....	7ck;cs	0	nw.	.....	0	0	fair	F. W. Mixer.
Denver, Colorado	24.77	629.1	30.03	762.7	49.0	9.4	50	w.	6	2.7	.....	0	1 k	.....	.....	0	0	clear	F. M. Neat.
Des Moines, Iowa	29.05	737.9	29.97	761.2	52	11.1	93	se.	2	0.9	.....	.....	10 n	.....	se.	0.72	18.3	light rain	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.28	769.1	47.1	8.4	86	e.	6	2.7	.....	3 cs	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.36	694.9	30.00	762.2	51	10.6	80	s.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	J. H. Bryce.
Dubuque, Iowa	29.33	745.0	30.05	763.3	48.7	9.3	89	se.	10	4.5	.....	.....	10 s	.....	.....	0.30	7.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.13	765 3	45	7.2	76	e.	13	5.8	.....	0	8 s	.....	e.	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.01	762.2	30.08	764.0	35.0	1.7	69	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.29	693.2	30.08	764.0	60	15.6	72	s.	10	4.5	.....	3 ck	1 s	sw.	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.40	670.5	30.14	765 5	53.6	12.0	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.60	751.8	30.33	770.4	41	5.0	73	s.	1	0.4	.....	hz.	fg	.....	.....	0	0	light haze	C. A. Shaw.
Escanaba, Michigan	29 58	751.3	30.25	768 3	45.0	7.2	83	e.	3	1.3	.....	0	1 s;hz	.....	e.	0	0	clear	George Heathcote.
Galveston, Texas	30.10	764.5	30.14	765.5	79.5	26.4	82	sw.	5	2.2	.....	0	4 ks	.....	sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.53	750.0	30.20	767.1	44.0	6.7	76	e.	10	4.5	.....	4 ck	5 s	w.	.....	0	0	cloudy	Wm. H. Fallon.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.33	643.4	30.03	762.7	51.8	11.0	60	e.	2	0.9	.....	1 ck	0	sw.	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.24	768.1	30.25	768.3	61.0	16.1	84	ne.	10	4.5	.....	.....	10 s	.....	ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.65	651.5	29.95	760.7	48	8.9	66	n.	1	0.4	.....	.....	9 ks	.....	.....	0	0	cloudy	T. H. Jones.
Huron, Dakota	28.47	723.1	29.90	759.4	49.3	9.6	90	se.	8	3.6	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.10	764.5	48.4	9.1	83	se.	6	2.7	.....	.....	10 n	.....	se.	0.57	14.5	light rain	C. F. R. Wappenhans.
Indianola, Texas	30.09	764.3	30.12	765.0	77.2	25.1	89	se.	7	3.1	.....	1 cs	0	sw.	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.13	765.3	30.17	766.3	74.5	23.6	100	ne.	4	1.8	.....	.....	fg.	.....	.....	0.55	14.0	dense fog	J. W. Smith.
Keokuk, Iowa	29.34	745.2	30.01	762.2	52.0	11.1	100	e	4	1.8	.....	.....	fg.	.....	.....	1.46	37.1	dense fog	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	81	27.2	79	ne.	6	2.7	.....	0	2 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.27	768.8	30.29	769.4	61	16.1	72	e.	11	4.9	.....	.....	10 ks	.....	ne.	0.09	2.3	cloudy	Wesley Blake.
Knoxville, Tennessee	29.11	739.4	30.15	765.8	60.8	16.0	97	sw.	8	3.6	.....	.....	10 n	.....	.....	0.13	3.3	light rain	J. A. Cody.
La Crosse, Wisconsin	29.24	742.7	30.03	762.7	48	8.9	86	se.	11	4.9	.....	.....	10 n	.....	.....	0.04	1.0	light rain	S. C. Emery.
Leavenworth, Kansas	29.07	738.4	29.97	761.2	52.5	11.4	93	s.	1	0.4	.....	.....	fg.	.....	.....	1.11	28.2	dense fog	T. S. Outram.
Lewiston, Idaho	29.18	741.2	30.03	762.7	46.0	7.8	60	se.	4	1.8	.....	0	0	.....	.....	0.11	2.8	clear	C. E. Butler.
Little Rock, Arkansas	29.75	755.6	30.07	763.8	72.0	22.2	90	sw.	2	0.9	.....	4 k	0	.....	.....	0	0	fair	W. U. Simons.
Los Angeles, California	29.72	754.9	30.12	765.0	51.5	10.8	86	n.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.09	764.3	51	10.6	93	ne.	4	1.8	.....	.....	10 s	.....	e.	0.40	10.2	cloudy	L. M. Dey.
Lynchburg, Virginia	29.60	751.8	30.29	769.4	49	9.4	86	e.	6	2.7	.....	.....	10 n	.....	e.	0.22	5.6	light rain	Jno. Healy.
Mackinaw City, Michigan	29.65	753.1	30.32	770.1	43.5	6.4	88	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.24	768.1	30.25	768.3	61.0	16.1	72	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	William Daly
Maginnis, Fort, Montana	25.45	646.4	29.99	761.7	40	4.4	35	sw.	17	7.6	.....	3 c	0	sw.	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.53	750.0	30.27	768.8	33.0	0.6	78	calm	0	0	.....	hz.	0	.....	.....	0	0	dense haze	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.08	764.0	74	23.3	84	sw.	8	3.6	.....	hz.	8 s	.....	sw.	0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.12	765.0	53	11.7	72	se.	26	11.6	.....	.....	10 ks	.....	se.	0	0	cloudy	W. Line.
Mobile, Alabama	30.12	765.0	30.16	766.1	74	23.3	90	w.	3	1.3	.....	7 c	hz.	w.	.....	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.94	760.5	30.17	766.3	75	23.9	82	sw.	2	0.9	.....	4 cs	0	sw.	.....	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.94	735.1	29.96	761.0	42	5.6	100	se.	15	6.7	.....	.....	1 s	.....	se.	0.97	24.6	cloudy	H. Bessant.
Mt. Washington, N. H.	23.60	599.4	29.94	760.5	10.0	—12.2	100	nw.	60	26.8	.....	.....	fg.	.....	nw.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.06	763.5	66.0	18.9	92	sw.	4	1.8	.....	3 ck	4 k	w.	w.	inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.20	767.1	30.32	770.1	35.5	1.9	69	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.30	769.6	30.34	770.6	45	7.2	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.10	764.5	30.15	765.8	76.0	24.4	85	nw.	3	1.3	.....	4 c	0	.....	.....	0	0	fair	M. Herman.
New York, New York	30.17	766.3	30.35	770.9	42.0	5.6	58	w.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	H. J. Peurod.
Norfolk, Virginia	30.26	768.6	30.29	769.4	57.5	14.2	70	ne.	5	2.2	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Wm. Davis.
North Platte, Nebraska	27.01	686.0	29.97	761.2	45.6	7.5	91	w.	8	3.6	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	E. F. Brady.
Olympia, Washington T'y	30.00	762.0	30.04	763.0	47.0	8.3	86	s.	1	0.4	.....	0	0	.....	.....	0.12	3.0	clear	J. Dascomb.
Omaha, Nebraska	28.78	731.0	29.98	761.5	53.2	11.8	92	calm	0	0	.....	.....	10s; fg	.....	.....	0.62	15.7	cloudy	A. Pollak
Oswego, New York	30.01	762.2	30.34	770.6	42.0	5.6	65	s.	4	1.8	.....	0	7 k	.....	nw.	0	0	fair	J. G. Linsley
Palestine, Texas	29.61	752.1	30.17	766.3	74.0	23.3	90	s.	5	2.2	.....	0	7 ks	.....	sw.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	72.4	22.4	95	sw.	3	1.3	.....	3 c	4 s	w.	sw.	0	0	fair	M. McGauran.
Philadelphia, Pa.	30.27	768.8	30.37	771.4	44.5	6.9	76	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	30.21	767.3	16	— 8.9	76	nw.	28	12.5	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.46	748.3	30.28	769.1	43.3	6.3	68	ne.	5	2.2	.....	7 cs	0	w.	.....	0	0	fair	G. C. Schaeffer.
Port Huron, Michigan	29.60	751.8	30.29	769.4	37.0	2.8	82	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.17	766.3	30.22	767.6	38.5	3.6	63	w.	5	2.2	.....	4 k	0	w.	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.02	762.5	30.09	764.3	48.0	8.9	86	s.	1	0.4	.....	.....	10 s	.....	s.	0.27	6.9	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.88	631.9	30.04	763.0	32.5	0.3	78	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.21	767.3	30.24	768.1	43.5	6.4	51	nw.	14	6.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Red Bluff, California	29.74	755.4	30.10	764.5	57	13.9	93	calm	0	0	.....	.....	10 n	.....	.....	0.02	0.5	light rain	J. R. Williams.
Rio Grande City, Texas	29.93	760.2	30.17	766.3	78.3	25.7	77	se	2	0.9	.....	0	3 s	.....	se.	0	0	clear	Fred. Belford.
Roseburg, Oregon	29.63	752.6	30.19	766.8	44.6	7.0	93	ne.	1	0.4	.....	0	7 s	.....	nw.	0.22	5.6	fair	J. J. Nanry.
Sacramento, California	30.02	762.5	30.10	764.5	55.0	12.8	86	se.	4	1.8	.....	0	5 s	.....	.....	0	0	fair	J. A. Barwick
St. Louis, Missouri	29.43	747.5	30.05	763.3	56.7	13.7	100	se.	1	0.4	.....	.....	fg.	.....	.....	0.55	14.0	dense fog	J. H. Weber.
St. Michael, Fort, Alaska	29.44	747.8	29.47	748.5	41	5.0	82	se.	21	9.4	.....	0	5 ks	.....	se.	0	0	fair	Fred. H. Clarke.
St. Paul, Minnesota	29.14	740.1	30.01	762.2	45.0	7.2	93	se.	10	4.5	.....	.....	10 n	.....	se.	0.16	4.1	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.06	738.1	29.96	761.0	43	6.1	100	se.	6	2.7	.....	.....	10 n	.....	.....	0.69	17.5	light rain	C. B. Dilley
Salt Lake City, Utah	25.76	654.3	30.16	766.1	43.3	6.3	51	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.00	762.0	30.08	764.0	53.0	11.7	75	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. R. Day.
Sanford, Florida	30.06	763.5	30.11	764.8	78	25.6	90	ne.	6	2.7	.....	0	0	.....	.....	0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.59	751.6	30.28	769.1	47	8.3	63	se.	19	8.5	.....	3 c	4 s	se.	se.	0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.32	770.1	30.35	770.9	45.0	7.2	53	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. A. Blundon
San Francisco, California	30.06	763.5	30.13	765.3	54.5	12.5	90	sw.	5	2.2	.....	0	fg.	.....	sw.	0	0	clear	N. Gorom.
Savannah, Georgia	30.10	764.5	30.18	766.6	68.5	20.3	92	n.	4	1.8	.....	0	fg.	.....	.....	0.65	16.5	clear	H. W. Ford.
Shaw, Fort, Montana	26.18	665.0	29.88	758.9	49	9.4	86	w.	21	9.4	.....	.....	10 s	.....	w.	0.03	0.8	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.85	758.2	30.09	764.3	73.0	22.8	97	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Mattingly
Sitka, Alaska	30.09	764.3	30.16	766.1	43	6.1	74	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.58	751.3	30.06	763.5	71.0	21.7	94	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.18	766.6	30.22	767.6	65.5	18.6	77	e.	15	6.7	.....	.....	9 s	.....	sw.	0.01	0.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.99	761.7	40	4.4	67	s	8	3.6	.....	3 c	2 s	sw.	.....	0	0	fair	John F. Hemenway.
Springfield, Illinois	29.35	745.5	30.04	763.0	53	11.7	93	se.	5	2.2	.....	.....	fg.	.....	.....	1.85	47.0	dense fog	T. B. Jennings.
Stockton, Fort, Texas	27.10	688.3	30.13	765.3	63.0	17.2	93	ne.	1	0.4	.....	6 cs	0	.....	.....	0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	29.86	758.4	.....	.....	46.3	7.9	95	w.	9	4.0	.....	0	0	.....	.....	0.01	0.3	clear	R. Connor.
Thomas, Camp, Arizona	.....	.....	.....	.....	46	7.8	43	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.54	750.3	30.24	768.1	47.5	8.6	52	e.	9	4.0	.....	7 cs	sk.	w.	.....	0	0	fair	A. Buell.
Unalaska, Alaska	29.76	755.9	29.78	756.4	46	7.8	76	s.	6	2.7	.....	0	6 s	.....	s.	0	0	fair	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	42	5.6	68	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.89	759.2	30.15	765.8	72.8	22.7	87	s.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.25	768.3	30.37	771.4	46.8	8.2	72	ne.	2	0.9	.....	0	10 s	.....	ne.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.05	661.7	29.98	761.5	51.5	10.8	43	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.18	766.6	30.24	768.1	60.0	15.6	70	ne.	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	Samuel A. Hanes.
Yankton, Dakota	28.59	726.2	29.92	760.0	49.6	9.8	84	s.	5	2.2	.....	.....	10 s	.....	sw.	0.19	4.8	cloudy	E. H. Thompson.
Yuma, Arizona	29.87	758.7	30.02	762.5	54.6	12.6	74	calm	0	c	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	76	24.4	.....	nw.	.....	.....	1	.....	10 n	.....	ne.	0.95	24.1	raining	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3	.....	.....	50.9	10.5	70	calm	0	0	.....	.....	8s; ks	.....	nw.	0	0	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	30.04	763.0	77.6	25.3	86	calm	0	0	.....	9 cs	1 s	.....	.....	0.14	3.6	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.01	763.0	30.04	763.0	79	26.1	82	se.	.....	.....	3	4 c	.....	.....	e.	0.060	1.5	clear	Dr. C. J. Herme.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	77	25.0	89	n.	.....	.....	2	.....	10 ks	.....	n.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	90	ne.	.....	.....	1	.....	6 ks	.....	ne.	0	0	.....	Earl Flint.
York Factory, B. A.	29.91	759.7	29.97	761.2	22.5	— 5.3	100	w.	6	2.7	.....	.....	10 n	.....	w.	0.01	0.3	snowing	Francisco & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 59′, E. 24° 13′	29.77	756.1	76	24.4	77	se.			5		10	ese.				2	se.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.96	761.0	73	22.8	81	nne.			6		6	nne.						d. clouds.
H. M. S. Flamingo, N. 49° 06′, W. 53° 30′	29.59	751.6	46	7.8	92	ssw.			6		3	s.				4	s.	d. clouds.
H. M. S Himalaya, N. 37° 14′, E 10° 54′	29.90	759.4	71	21.7	66	w.			6		9	wsw.				4	w.	showery.
H. M. S. Iris, Port Said, Egypt	29.93	760.2	82	27.8	96	nne.			3		0							blue sky.
H. M. S. Orontes, N. 40° 25′. W. 12° 13′	30.36	771.1	68	20.0	74	nne.			5		1	nne.				4	n.	d. clouds.
H. P. M. S. Douro, St. Thomas, W.I.	29.97	761.1	80.6	27.0	88	sse.			2		9	sw.				4	sw.	overcast.
U. S. Navy Yard, Portsmouth N.H.*	30.18	766.6	39	3.9	55	nw.	13	5.8			2	nw.		0	0			fair.
U. S. S. Alliance, N. 43° 23′ W. 68° 36′	30.19	766.8	45	7.2	76	nnw.			5		2	nnw.		0	0	mod.		clear.
U. S. S. Jamestown, N. 21° 36′, W. 48° 35′	30.13	765.3	80	26.7	96	ne.			4		5	ne.				sm'h	ne	fair
U. S. S. Kearsarge, N. 33° 34′, W. 9° 25′	30.29	769.4	69	20.6	80	nnw.			1		2					sm'h		fair.
U. S. S. Lancaster, Tangier, Morocco	30.23	767.8	65	18.3	78	nw.			2		8	nw.				sm'h		cloudy.
U. S. S. New Hampshire. Newport, R. I.			42	5.6	74	nw.			2		0					sm'h		clear.
U. S. S. Portsmouth, Little Gull Island, N.Y	30.31	769.9	45	7.2	92	nnw.			4		2	nnw.						clear
U. S. S. Powhatan, Sydney, C. B	29.86	758.4	41	5.0	91	wsw.			1		5?	wsw						cloudy.?
U. S. S. Quinnebaug, Leghorn, Italy	29.68	753.9	65	18.3	73	wsw.			3-4		2	wsw.						fair.
U. S. S. Pinta, New London. Conn	30.34	770.6	39	3.9	64	n.			1		0							clear.
U. S. S. Saratoga, New York, N. Y.	30.36	771.1	42	5.6	91	wnw.			3		2	wnw.		0	0	sm'h		clear.
U. S. S. Swatara, Boston, Mass	30.28	769.1	41	5.0	65	wnw.			2		0			0	0	sm'h		clear.
U. S. S. Vandalia, Boston, Mass †.	30.29	769.4	40	4.4	64	nw.			1		0							clear.
S. S. British Princess, N. 48° 02′. W. 43° 51′ †	29.99	761.7	54	12.2		w.			2		10	nw.	6 h'r	6 h'r	sm'h	w.		cloudy.
S. S Lord Clive, N. 45° 02′, W 52° 55′						wsw.			3		7	w.	0	0	mod.	wsw.		fine.
S. S Lord Gough, N. 49° 08′, W. 41° 03′			54	12.2		w.			3		10	w.	13 h'r	13 h'r	cross			hazy.
S. S. Ohio, N. 41° 20′, W. 65° 30′†	30.13	765.3	48	8.9	78	nnw.			4		3	nw.	0	0	mod.	nw.		clear.
S. S. Prussian, N. 46° 33′. W. 52° 28′	29.95	760.7	50	10.0		wnw.			3		8	wnw.	0	0	cross	wnw.		cloudy.
S. S. Scandinavian, Boston, Mass	30.29	769.4	46	7.8		wnw.			2		0		0	0				blue sky.
S. S. Jason, N. 42° 51′ W. 59° 11′			55.4	13.0		n.			4		6 k				3	nw.		
S. S. Alvo, N. 29° 43′, W. 74° 17′*	30.06	763.5	77	25.0		nne.			6		7	n.	2 h'r	2 h'r	short	nne.		fine.
S. S. Andes, N. 17° 25′, W. 70° 00′						e.			2		0		0	0	sm'h			fine.
S. S. Ailsa, N. 36° 27′, W. 74° 00′			73.5	23.1	83	ene.			4		2	ne.	0	0	light	e.		fine.
S. S. Avilla, N. 21° 40′, W. 73° 55′*†	30.10	764.5	83	28.3		ene.			3		3	ene.	rain	rain	sm'h			
S. S. Dorian, Malaga, Spain	30.11	764.8																fine.
S. S. Furnessia, N. 41° 59′, W. 61° 56′†	30.00	762.0	53	11.7	67	nw.			6		10	wnw.	0	0	mod.	nw.		cloudy.
S. S. Jerome, N. 10° 01′, W. 52° 32′*	29.94	760.5	77	25.0		ene.			6		10		2 h'r	2 h'r	r'gh	ene.		drizzling.
S. S. Llandaff City, N. 50° 38′, W. 17° 13′ †	30.46	773.7	58	14.4		w.			1		3	sw.	0	0	light	con.		clear.
S. S. Cephalonia, N. 48° 26′, W. 31° 44′	30.31	769.9	65	18.3	94	sse.			5		10	ssw.	8 h'r	8 h'r	mod.	ssw.		misty.
S. S. Bothnia, N. 46° 03′, W 43° 54′	29.90	759.4	59	15.0	?	wnw.			2		2	wnw.	7 h'r	7 h'r	long	ssw.		clear.
S. S. Scythia, N. 41° 20′, W. 59° 46′	30.05	763.3	56	13.3	94	nw.			4		8	n.	3 h'r	3 h'r	mod.	nw.		
S. S. Samaria, N. 51° 15′ W. 15° 30′*	30.50	774.7	57	13.9		w.			3		5?	wsw.	0	0	mod	wnw.		cloudy?
S. S. France, N. 49° 43′, W. 11° 39′*†	30.49	774.4	51.8	11		n.			4		10	n.	0	0	sm'h	n.		overcast.
S. S. Olinde Rodrignes, N. 26° 18′ W. 44° 05′*†	30.17	766.3	82	27.8		ese.			4		8	ese.	sh'rs	sh'rs	mod.	se.		cloudy.
S. S. Arizona, N. 44° 56′, W. 53° 45′	29.91	759.7	51	10.6		wsw.			4		3	w	0	0	mod.	w.		clear.
S. S. Wyoming, N. 53° 27′ W. 4° 17′	30.27	768.8	51	10.6		n.			6		6	n.	0	0	long	n.		fair.
S. S. Frisia, N. 50° 13′, W. 21° 04′	30.50	774.7				wsw.			3		10	w.	18 h'r	18 h'r	long	w.		rainy.
S. S. Gellert, Hamburg, Germany	29.73	755.1	54	12.2	87	nne.			4		6	n.	0	0				cloudy.
S. S. Rugia, N. 40° 54′, W. 67° 47′	30.24	768.1	57	13.9		nnw.			4		3	nnw.	0	0	mod	nnw.		fair.
S. S. Silesia, N. 42° 17′. W. 62° 07′	30.03	762.7	48.5	9.2		wnw.			6		9	w	0	0	long	wnw.		squally.
S. S. Nessmore, N. 37° 18′, W. 74° 39′	30.32	770.1	58	14.4	100	nne.			3		10	nne.	0	0	mod.	nne.		cloudy.
S. S. Hevelius, Liverpool, Eng †	30.09	764.3				w.			7			w.	6 h'r	6 h'r				cloudy.
S. S. Rio Grande, Galveston, Texas †	30.17	766.3	80	26.7		ssw.			1		5	ssw.	0	0				clear ?
S. S. Chalmette, N. 24° 45′, W. 82° 22′†	30.12	765.0	82	27.8		ene.			4		4	e.	0	0	sm'h			fair.
S. S. Lone Star, N. 32° 55′, W. 77° 20′ *†	30.12	765.0	75	23.9		ne.			4		10	ene.	4 h'r	4 h'r	large	ene.		squally
S. S. Alleghany, Cape Charles, Va.†	30.33	770.4	60	15.6		e.			2		5	e.	0	0				threatening.
S. S. Archimede, N. 34° 14′. W. 47° 47′†	30.20	767.1	81	27.2		ssw.			4		3	sw.	2 h'r	2 h'r	mod.	sw.		clear.
S. S. City of Merida. N. 23° 09′, W. 82° 22′*†	30.08	764.0	80	26.7		ne.			1		1	n.	0	0	mod.	ne.		fine.
S. S. Canada, N. 45° 25′, W. 49° 23′			51	10.6		calm			0		10	calm	6 h'r	6 h'r	sm'h			raining.
S. S. Denmark, N. 46° 56′. W. 32° 00′			64	17.8		ssw.			6		8	ssw.	0	0	mod.	ssw.		cloudy.
S. S. Grecian, Montreal, Canada	30.33	770.4	37	2.8	71	nw.			4		8	nw.	0	0				cloudy.
S. S. England, N. 51° 12′, W. 15° 38′	30.45	773.4				nw.			3		0		0	0	sm'h			clear.
S. S. Erin, London. Eng			49	9.4		nnw.			4		3	nnw.	0	0				clear.
S. S. Greece, N. 40° 25′ W. 63° 32′			50	10.0	79	nnw.			7		8	nnw.	0	0	mod.	nnw.		d. clouds.
S. S. The Queen, N. 46° 46′, W. 38° 58′	29.91	759.7	68	20.0		s.			6		10*	ssw.	0	0	mod.	sw.		dull.
S. S. America, N. 45° 54′, W. 50° 51′*.	29.82	757.4	51.0	10.6	59	ssw.			5		7	ssw.			mod.	sw.		fair.
S. S. Donau, N. 50° 08′ W. 22° 52′	30.51	774.9				wnw.			4		5	w.	3 h'r	3 h'r	mod.	sw.		foggy.
S. S. Elbe, N. 51° 20′, E. 1° 50′	30.07	763.8	52.7	11.5	100	n.			6		4	n.	0	0	r'gh	n.		squally.
S. S. Habsburg, N. 46° 47′, W. 46° 37′	29.94	760.5				wnw.			3		6	wnw.	3 h'r	3 h'r	sm'h	wnw.		fair.
S. S. Hohenstaufen, N. 27° 16′. W. 20° 56′	30.26	768.6	75.2	24.0		e.			4		6	e.	0	0	mod.	ne.		fair.
S. S. Orinoco, New York, N.Y †	30.29	769.4	54	12.2		nw.			1		0		0	0				clear.
S. S. Main, N. 49° 37′ W. 32° 36′	30.30	769.6	62.6	17.0		sw.			5						mod	sw.		foggy.
S. S. Ohio, off Portland, Eng	30.25	768.3				nw.			5		7	n.	0	0	mod.	nw.		fair.
S. S. Salier, N. 42° 19′, W. 62° 35′*	30.07	763.8	48.2	9.0		wnw.			6		8	w.	2 h'r	2 h'r	cross	wnw.		squally.
S. S. Strassburg. off Cove Point, Va	30.35	770.9	52.5	11.4	57	ese.			4-5		10		0	0				covered.
S. S. City of Augusta, N. 34° 27′, W. 77° 58′†	30.24	768.1				nw.			2		6	n.			sm'h			smoky.
S. S. Muriel, St. Thomas, W.I.	29.96	761.0	82	27.8		e.			2		0		0	0	sm'h			clear.
S. S. Rhynland, N. 49° 15′ W. 38° 29′	29.93	760.2	56	13.3		ssw.			6		7	s.	0	0	high	s.		hazy.
S. S. Pennland, Jersey City, N. J.			46	7.8	84	n.			2		2	ne.	0	0				clear.
S. S. Switzerland N. 49° 29′ W. 35° 40′*†	30.15	765.8				ssw.			2		10	sw.	6 h'r	6 h'r	mod	sw.		drizzling.
S. S. Vaderland, N. 49° 50′, W. 60° 30′	30.37	771.4	56	13.3		nnw.			4		4	nw.	0	0	mod.	wnw.		
S. S. Waesland, Antwerp, Belgium	29.88	758.9	58	14.4		wsw.			4		10	wsw.	1½ hr	1½ hr				cloudy.
S. S. P. Caland, N. 49° 45′, W. 19° 05′	30.53	775.4	59.0	15	81	ssw.			3		9	ssw.			2	w.		cloudy.
S. S. Schiedam, N. 49° 25′. W. 29° 10′	30.25	768.3	66.9	19.4	85	sw.			6		9	wsw.	2 h'r	2 h'r	long	w.		sprinkling.
S. S. Zaandam. New York, N.Y	30.36	771.1	50.7	10.4	82	w.			2		3	w.	0	0				fair.
S. S. W. A. Scholten. N. 42° 31′, W. 60° 04′	30.02	762.5	47.3	8.5	79	wnw.			5		7	nw.	4 h'r	4 h'r	5	nw.		squally.
S. S. Valencia, LaGuayra, Venezuela*†	29.97	761.2	81	27.2	78	calm			0		2	calm	1 h'r	1 h'r	light	ene.		clear.
S. S. State of Georgia, N. 40° 22′, W. 68° 44′	30.24	768.1	49	9.4		nw.			5		3	n.	sh'rs	sh'rs	light	var.		clear.
S. S. State of Indiana, Glasgow, Scotland*†	30.15	765.8				nw.			6		5	nw.	0	0				fair.
S. S. Thingvalla. Sandy Hook, N.J†	30.37	771.4	48.2	9.0		nnw.			2		1	nnw.	0	0	sm'h	nnw.		clear.
S. S. Otranto, N. 50° 33′, W, 14° 32′			62	16.7		w.			3		8	w.	0	0	mod.	w.		cloudy.
S. S. Romano, Boston, Mass			41	5.0		wsw.			3		4	wsw.	0	0				fair.
S. S. Salerno, Hull, Eng *†	30.13	765.4	47	8.3		w.			2		6	w.	0.2	5.				fair.
S. S. Oregon, N. 56° 01′, W. 30° 02′	29.80	756.9	53	11.7		ssw.			4		10	ssw.			mod.	ssw.		foggy.
S. S. Quebec, Quebec, Quebec	30.16	766.1	30	3.9		w			2		3	wnw.	0	0	sm'h			clear.
S. S. Texas, N. 52° 35′, W. 52° 59′*†	29.65	753.1	55?	12.8?		sw.			6		7		0	0	sm'h	wsw.		fair.
S. S. Olbers, N. 14° 12′, W. 51° 49′			81.5	27.5	93	ne.			5		4	ne.	0	0	light	ese.		fair.
S. S. Daniel Steinmann, N. 49° 33′ W. 36° 57′†	30.03	762.7	62	16.7		sw.			5		10		4 h'r	4 h'r	h'vy	sw.		heavy rain.
S. S. Adriatic, N. 50° 50′, W. 23° 20′ *†	30.46	773.7	60	15.6		wsw.			5			sw.	0	0	str'g	nw.		overcast.
S. S. Celtic, New York, N. Y†	30.34	770.6	49	9.4		wnw.			2		0		0	0				clear
S. S. Germanic, N. 42° 21′, W. 62° 23′ *†	29.98	761.5	47	8.3		nw.			6		7	wnw.	1 h'r	1 h'r	short	wnw.		squally.
S. S. Republic, N. 50° 15′, W. 13° 57′ *†	30.46	773.7	55	12.8		n.			3		7	n.	0	0	mod.	nw.		d. clouds.
S. S. Iowa, N. 46° 28′, W. 53° 38′†.			50	10.0		wsw.			5		5	wsw.	hail	hail	mod.	wsw.		fair.
S. S. Assyrian Monarch, N. 46° 51′, W. 44° 44′	29.95	760.7				w.			1		1	sw.	3 h'r	3 h'r	mod.	w.		clear.
Bk. Arda, N. 29° 25′, W. 25° 55′†	30.26	768.6				ene.			3		6	ene.	sh'rs	sh'rs	mod.	ene		squally.
Bg. Alpheus Marshall, N. 8° 17′, W. 22° 18′*†	29.97	761.2	78	25.6	95	ssw.			1		7		2 h'r	2 h'r	mod.	nne.		fair.
Bk. Ariadne, N. 49° 46′, W. 39° 20′	29.91	759.7	63	17.2	100	s.			6		10	ssw.	12 h'r	12 h'r	mod	s. sw.		light rain.
Bg Abbie Clifford, N. 34° 19′, W. 65° 09′ †	30.00	762.0	71	21.7		nne.			5		4	nw.	ne.		o	o	mod.	nne.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, N. 39° 10′, W. 74° 00′						ne.			4		2		ne.	0	0	chop	ne.	clear.
Schr. Abbie H. Gheen, Chesapeake Bay†	30.38	771.6	60	15.6		ne.			3							mod.	w.	stormy.
S. S. Antonio Lopez, Cadiz, Spain *	30.21	767 3	62	16.7	80	w.			2	7 c				0	0	mod.	w.	fair.
Schr. Adda Doane, N. 28° 27′, W. 61° 07′						ssw.			3		3		sw.	0	0	sm'h		clear.
Bk. Adelaide, N. 3° 49′, W. 29° 24′			83	28.3		se.			5		1		sse.	4 h'r	4 h'r	mod.	sse.	clear.
Bg. Belle of the Bay, Galveston, Texas †	30.07	763.8				sw.			2		2		sw.	0	0			clear.
S. S. Benledi, N. 31° —′, E. 32° 15′*	29.87	758.7	93.5	34.2		nne.			1–3		0			0	0	sm'h		fine.
Bk. Ceylon, N. 15° 46′, W. 36° 27′†	30.05	763.3	82	27.8	91	ene.			0		4		e.	2 h'r	2 h'r	r'gh	e.	squally.
Schr. Clotilde, N. 35° 44′, W. 74° 40′ †	30.23	767.8	64	17.8		ene.			4		10		ne.	0	0	mod.	ne	cloudy.
Schr. C. R. Flint, N. 8° 32′, W. 57° 25′ †	29.91	759.7	84	28.9		ene.			3		6		ene.	0	0	sm'h	ene.	cloudy.
Bk. Don Justo, N. 40° 02′, W. 66° 24′			54	12.2		nnw.			6		5		nnw.	rain	rain	r'gh	nw.	fair.
S. S. D. J. Foley, N. 23° 15′, W. 74° 25′ *†	30.09	764.3	83	28.3	83	ene			2		4		ne.	0	0	sm'h		fair.
Bkt. David A. Preston, New York, N. Y.†	30.42	772.7				n.			2				n.	0	0			
Bk. Diamant, N. 47° 32′, W. 30° 40′			64.9	18.3	95	sw.			5		9		ssw.	2 h'r	2 h'r	4	var.	cloudy.
S. Dynomene, N. 16° 50′, W. 25° 40′	30.09	764.3	81	27.2	87	ene.			3		4			0	0	mod.	nne.	misty.
S. David Stewart, Cape Henry, Va			61	16.1		ese.			5		10							
S. E. J. Spicer, N. 45° 24′, W. 17° 30′	30.59	777.0	59	15.0	94	nnw.			3		10		nnw.	shr's	sh'rs	mod.	nnw	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	30.18	766.6	84	28.9		s.			1		2		sw.	0	0			fine.
S. Festina Lente, St. Paul Island, St. Lawrence Gulf			41	5.0		wnw.			6		10		w.	1 h'r	1 h'r	mod.	wnw.	squally.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.30	769.6	45	7.2	76	nnw.			4		0			0	0			clear.
S. Gatherer, N. 45° —′, W. 26° 35′*	30.62	777.7	73	22.8	82	ssw.			2		2		sw.	0	0	sm'h	nw.	clear.
Bg. George, N. 25° 45′, W. 69° 40′*†	30.10	764.5	80	26.7		nw.			1		0			0	0	sm'h		clear.
Bk. Galeon, N. 22° 25′, W. 40° 10′ †	30.15	765.8	79	26.1		e.			4		2		e.	light	light	mod.	ene.	squally.
Bk. Grey Eagle, N. 0° 53′, W. 29° 15′						sse.			3		2		sse.	0	0	short	sse.	clear.
Bk. Hattie G. McFarland, New York, N.Y.†	30.37	771.4	43	6.1		nw.			4		2		nw.	0	0			fine.
S. Hedwig, N 20° 29′. W. 42° 24′	30.15	765.7	80.2	26.8	81	e.			5		4		e.	½ h'r	½ h'r	3	e.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla.†	30.16	766.1				ne.			1		2		e.	0	0			clear.
Bk. Ibis, N. 34° 00′, W. 75° 50′*	30.17	766.3	69	20.6		e.			4		10		ese.	0	0	mod.	ne.	cloudy.
Bk. John H. Pearson, N. 36° 37′, W. 4° 00′						w.			4				wnw.	0	0	r'gh	w.	clear.
Schr. Jas Slater, N. 25° 00′, W. 61° 17′						se.			2		0			½ h'r	½ h'r	light	sse.	
Bg. Josefa, N. 45° 10′, W. 56° 08′ †	29.76	755.9				w.			6		7		wsw.	0	0	r'gh	wsw.	cloudy.
Bkt. Kryolith, N. 40° 44′, W. 65° 48′*†	30.02	762.5				nw.			6–7		8		nw.	rain	rain			cloudy.
Bk. Lady Hincks, N. 27° 52′, W. 55° 30′ *†	30.10	764.5									10		se.	sh'rs	sh'rs			cloudy.
Bg. Lillian, N. 16° 20′, W. 60° 00′ †	29.99	761.7	85	29.4		ese.			3		7		se.	1 h'r	1 h'r	rg'h	var.	cloudy.
Bg. L. & W. Armstrong, N. 30° 04′, W. 73° 35′ *†	30.20	767 1				ne.			4		6		ne.	0	0	mod.	ne.	fair.
S. S. Madrid, Taganrog, Russia †	29.98	761.5	67	19.4	84	calm			0		5		e.	0	0			fair.
Bk. Matilda C. Smith, N. 42° 50′, W. 43° 50′*†	30.05	763.3				ssw.			6		7		sw.	12 h'r	12 h'r	r'gh	ssw.	stormy.
Bk. Matthias, N. 38° 50′, W. 61° 20′ *†	30.05	763.3	60	15.6		nnw.			4–6		7		nw.	½ h'r	½ h'r	4	w;nw	squally.
Bk. National Eagle, N. 40° 38′, E. 18° 45′						s.			6		8		s.	6 h'r	6 h'r	r'gh		threatening.
Bk. Orpheus, N. 39° 33′, W. 70° 25′	30.25	768.3	54	12.2		n.			2		k		nnw.	0	0	sm'h		cloudy.
S. S. Radnorshire, N. 38° 37′, W. 9° 33′ *†	30.20	767.1				n.			3		0			0	0	sm'h	n.	clear.
Schr. Rollin Sanford, Milton, Florida†	30.16	766.1				n.			1		5		nw.	0	0			fair.
Bg. Rising Sun, N. 29° 19′, W. 59° 04′ †	30.13	765.3	80	26.7		ssw.			4		5		ssw.	0	0	mod.	ssw.	fair.
Bk. Rosalie, N. 19° 55′. W. 24° 05′*†	30.13	765.3				ene.			4		3		e.	0	0	mod	ne.	hazy.
Bk. Saga, N. 56° 54′, E. 11° 40′*†	29.70	754.4	54	12.2		ne.			1–3		5		ne.	0	0	sm'h		fair.
S. Salisbury, N. 40° 07′, W. 42° 04′	30.13	765.2	74.8	23.8	92	sse.			6–7		8 kn		sse.	¼ h'r	¼ h'r	cross		cloudy.
Bgt. Sunlight, N. 36° 20′, W. 74° 40′ †	30.19	766.8				ne.			3		10		ne.	0	0	mod.	ne.	cloudy.
Bk. Samuel B. Hale, N. 34° 20′, W. 41° 43′*†	30.35	770.9				s.			6				s.	0	0	short	se.	clear.
Bk. Sunbeam, N. 43° 58′, W. 43° 50′ †	30.04	763.0	72	22.2	90	s.			7		10		s.	1 h'r	1 h'r	r'gh	s.	cloudy.
Bk. Scud, N. 21° 58′, W. 57° 32′ *†	30.10	764.5	85	29.4		sse.			2		2		calm	½ h'r	½ h'r	sm'h		fine.
S. St. Francis, N. 37° 02′, W. 66° 33′			58	14.4		n.			6		4		nne.	0	0	mod.	nne.	d. clouds.
Bk. St. Lawrence, N. 9° 21′, W. 56° 15′*†	29.90	759.4				var.							e.			sm'h		thunder.
S. S. Tower Hill, N. 40° 23′, W. 69° 20′*†	30.20	767.1				nw.			6		2		wnw.			sm'h		fine.
Schr. Viola Reppard, N. 36° 50′, W. 75° 54′			62	16.7		ne.			2		10		ene.			sm'h		cloudy.
Schr. Walter L. Plummer, N. 25° 07′, W. 22° —′*†	30.22	767.6				ene.			4		1		ne.			mod.	ne.	clear.
Bk. Childwall, N. 2° 58′, W. 22° 00′*	29.95	760.7	80	26.7		sse.			4		6		sse.	0	0	light	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 13° 38′, W. 38° 29′	30.09	764.3	78	25.6	81	e.			2		2	e				1	e.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.30	769.6	65	18.3	73	ese.			3		0							blue sky.
H. M. S. Opal, S. 4° 11′, W. 9° 14′	30.08	764.0	78	25.6	73	ese.			3		6	ese.				4	ese.	d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	30.06	763.5	56.5	13.6	94	ne.			3		9							d. clouds.
H. M. S. Tyne, S. 10° 56′, W. 11° 22′	30.15	765.8	75	23.9	100	ese.			4		10					3	ese.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.99	761.7	77.0	25.0	80	ssw.			3		9		ssw.	0	0	2		overcast.
H. P. M. S. Bengo, S. 12° 38′, E. 12° 47′	30.02	762.5	73.4	23.0	83	nw.			1		10			0	0	1		overcast.
U. S. S. Brooklyn, S. 37° 18′, W. 38° 56′*	30.21	767.3	54	12.2	67	ssw.	9	4.0			5		ssw.	0.04	1.0	mod.	s.	fair.
U. S. S. Nipsic, Montevideo, Uruguay*	30.03	762.7	61	16.1	88	n.			4		2					sm'h		clear.
S. S. Tenlers, S. 25° 25′ W. 45° 40′	30.15	765.8	71	21.7	88	ne.			6	cs	9 k			0	0		var.	overcast.
Bk. Aureola, S. 12° 00′, W. 34° 49′†	30.08	764.0	92	33.3		ese.			5		2		ese.	0	0	mod.	se.	clear.
S. David Crockett, S. 55° 05′, W. 62° 05′*	29.25	742.9	43	6.1	87	wnw.			8		6		wnw.	20 h'r	20 h'r	mod.	w.	snow & hail.
Bk. E. L. Pettingill, S. 37° 10′, W. 53° 16′*†	30.20	767.1	62	16.7		n.			5		5		w.	0	0	r'gh	se.	fair.
Bg. John Wesley, Natal, Brazil *†	29.92	760.0	81	27.2		ese.			4		5		e.	0	0			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.13	765.3				ene.			1		10			0	0			cloudy.
S. S. Menadoza, S. 29° 50′, W. 41° 15′ †	30.30	769.6				ssw.			3		8		ene.	0	0	long	ssw.	
Bk. Mohican, S. 34 42′, W. 20° 13′	29.64	752.8	64	17.8		wsw.			9		7		wsw.	3 h'r	3 h'r	h'vy	wsw.	cloudy.
Bk. Pilgrim, S. 18° 25′, W. 4° 50′ *†	30.18	766.6				ese.			3		8		ese.	0	0	mod.	ese.	cloudy.
Bgt. Willie, S. 30° 15′, W. 48° 00′*†	30.16	766.1	66	18.9		ene.			6		10		ene.	0	0	r'gh	ese.	misty.
Bk. Achille F, S. 24° 30′, W. 38° 30′ †	30.17	766.3	74	23.3		e.			4		8		e.	0	0	mod.	ese.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.86	758.4	67	19.4	95	nne.			2		10	ne.						raining.
H. M. S. Champion, Singapore, Malay Peninsula	29.88	758.9	84	28.9	83	s.			1		2							blue sky.
H. M. S. Cleopatra, N. 22° 35′, E. 115° 54′			72	22.2	95	ene.			4		4					3	var.	d. clouds
H. M. S. Flying Fish, N. 37° 15′, E. 125° 54′	30.00	762.0	65	18.3	73	wnw.			4		0					3	wnw.	blue sky.
H. M. S. Magpie, N. 2° 03′, E. 109° 07′	29.83	757.7	83.5	28.6	75	sw.			3		0					3	sw.	misty.
H. M. S. Zephyr, N. 30° 19′, E. 123° 37′	29.91	759.7	73	22.8		e			0		1					4	n.	blue sky
H. P. M. S. Pamega, Canton, China	29.95	760.6	82.0	27.8	71	nne.			2		6			0	0			d clouds.
U. S. Naval Hospital, Yokohama, Japan	29.90	761 0	64	17.8	97	calm			0		10		n.	2.63	66.8			raining.
U. S. S. Essex, Nagasaki, Japan	29.89	759.2	70	21.1	90	n.			2		10							overcast.
U. S. S. Hartford, N. 10° 37′, W. 86° 26′*	29.84	757.9	82	27.8	83	calm			0		8			3 h'r	3 h'r	sm'h	s.	cloudy.
U. S. S. Juniata, Hong Kong, China	29.99	761.7	78	25.6	100	ese.			2		5		se.	mod.	mod.	sm'h		fair.
U. S. S. Monocacy, Ross Island, Corea	30.01	762.2	68	20.0	74	nnw.			2		0							clear.
U. S. S. Pensacola, N. 32° 40′, E. 140° 58′ *	29.78	756.4	80	26.7	91	sse.			3		2		sse.	mod.	mod.	long	se.	clear.
U. S. S. Ranger, Mare Island, Cal	30.18	766.6	59	15.0	82	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	29.91	759.7	66	18.9	100	nne.			2		10			4.50	114.3			raining.
S. S. Oceanic, N 39° 49′, W. 158° 50′	30.38	771.6	64	17.8	95	se.			4		6		se.	0	0	2	var.	fair.
S. S. City of Chester, Hookton, Cal.†	30.18	766.6	53	11.7	86	nw.			4									overcast.
S. S. Columbia, N. 45°, 13′, W. 124° 20′†	30.12	765.0	53	11.7	67	nnw.			4		4		nnw.			mod.	nnw.	squally
S. S. Ancon, San Francisco, Calf	30.08	764.0	54	12.2	87	calm			0		0			0	0			clear.
S. S. Dakota, Seattle, Wash. Ter.			50	10.0	80	calm			0		0			0	0	sm'h		foggy.
S. S. Orizaba, N. 34° 35′, W. 120° 40′ *†	30.06	763.5	57.0	13.9	75	n.			2		0			0	0	long	w.	clear.
S. S. Queen of the Pacific, San Francisco, Cal †	30.13	765.3	55	12.8	94	s.			2		5			0	0			cloudy.†
S. S. Victoria, N. 44° 05′, W. 124° 41′†	30.08	764.0	56	13.3	75	sw.			4		2		sw.			mod.	w.	cloudy.
S. S. City of New York, N. 3° 58′, W. 163° 48′ †	29.99	761.7	81	27.2	91	se.			4		2		ese.	0	0	sm'h		fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. S. City of Pekin, Hong Kong, China †	29.99	761.7	76	24.4	82	e.			1		5		ne.	0	0			fair.
S. S. City of Tokio, N. 35° 43′ E. 143° 06′			74	23.3	95	n.			8		10		n.	8 h'r	8 h'r	h'vy	n.	thnd'r st'rm
S. S. City of Rio de Janeiro, N. 37° 58′, W. 164° 46′			68	20.0	90	ese.			6		10		ese.	0	0	mod.	ese.	overcast.
S. S. Colima, N. 24° 58′, W 112° 55†	30.08	764.0	70	21.1	70	baff			3		4		calm	0	0	mod.	wnw.	clear.
S. S. Grenada, La Libertad, San Salvador†	29.91	759.7	78	25.6	82	calm			0		0			2 h'r	2 h'r	light	s.	clear.
S. S. San Blas, Panama, Panama†	29.93	760.2	77	25.0		nw.			2		10		nw.	3 h'r	3 h'r			cloudy.
S. E. B. Sutton, N. 9° 00′, W. 117° 50′*†	29.94	760.5				se.			1		9			0	0	mod.	var.	cloudy.
S. S. Strathleven, N. 32° 05′, E. 126° 45′	29.95	760.7	76.8	24.9	61	nne.			5		3		nne.	0	0	4	nne.	blue sky
S. Storm King, N. 6° 28′, W. 113° 58′*†	29.96	761.0				s.			1		2		s.	0	0	sm'h	var.	clear.
U. S. S. Palos, Canton, China	29.96	761.0	80	26.7	58	calm			0		8		calm					cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.90	759.4	80.3	26.8	91	calm			0		4					sm'h		d. clouds.
H. M. S. Mutine, S 11° 32′, W. 77° 40	30.02	762.5	61	16.1		ese.			1		10					1	ese.	drizzling.
U. S. S. Nelson, Sydney, N. S. W	29.79	756.7	48	8.9	?	ssw.			2		9							d. clouds.
U. S. S. Iroquois, Callao, Peru	30.03	762.7	62	16.7	88	s.			1		10					sm'h		cloudy.
U. S. S. Lackawanna, Valpariso, Chili*	29.96	761.0	56	13.3	81	calm			0		5		s.					fair.
U. S. S. Onward, Callao, Peru *†	30.11	764.8	60	15.6	100	s.			1		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, S. 26° 44′, W. 71° 03′*	30.05	763.3	61	16.1	94	se.			1		10		calm			sm'h		overcast.
S. S. Australia, Sydney, N. S W	30.08	764.0	58	14.4	94	ne.			2		8?		ne.	0	0			clear.?
S. S. City of Sydney, S. 34° 04′, E. 158° 15′ *†	30.12	765.0	63	17.2	?	nne.			4		2 k;s		nne.			r'gh	nne.	clear.
Bk. Godeffroy, S. 48° 41′, W. 80° 40′	29.73	755.1	42.8	6.0	83	nw.			5		8		nw.	light	light	mod.	sw.	cloudy.
S. Sovereign of the Seas, S. 15° 56′, W. 92° 37′*†	30.16	766.1	72	22.2	80	calm			0		2			0	0	sm'h	sw.	clear.
S. Armenia, S. 11° 10′, W. 124° 15′ *	29.90	759.4	78	25.6	86	e.			4		6?		ese.	0	0	r'gh	se;s.	cloudy.?
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.06	763.5	66	18.9		se.			4							mod.	sse.	dense fog.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.05	763.3	82	27.8	75	sse.			3		3	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	82	27.8	83	sse.			3		3	sse.				2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab River, Turkey	29.97	761.2	92.5	33.6	51	nw.			2		0							blue sky.
Bk. Bore, S. 28° 30′ E. 37° 56′*†	29.94	760.5	78	25.6		e.			3		0			0	0	sm'h	e.	clear.
S. Frank N. Thayer, S. 23° 53′, E. 55° 53′*†	30.34	770.6	68	20.0	74	sse.			7		5		sse.	0	0	h'vy	var.	d. clouds
Bk. Great Surgeon, S. 39° 58′, E. 44° 35′ *†	30.22	767.6	60	15.6		n.			9		10		n.	3 h'r	3 h'r	r'gh	n.	rainy

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 6, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.15	765.8	70.9	21.6	75	e.			1		0			0	0	clear	Roziere.
Algiers			30.10	764.5	69.1	20.6	51	wnw.			3		0			inap.	inap.	clear	Thève.
La Calle			30.00	762.0	64.0	17.8	74	n.			2		3			0.039	1.0	pretty fair	Fonfrède.
Tunis			30.01	762.3	65.5	18.6	46	w.			4		5			0.055	1.4	cloudy	Delord.
Saida			30.07	763.7															Pérès.
Tebessa			30.03	762.8	62.6	17.0	80	w.			1		4			0	0	cloudy	St. Martin.
Geriville					62.6	17.0	43	nw.			2		2			0	0	fair	Forfert.
Laghouat			30.08	763.9	70.9	21.6	25	se.			1		2			0	0	fair	Abraham.
Biskra			30.04	763.1	64.4	18.0	34	w.			1		2			0	0	fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.19	766.8	48.2	9.0	86	sw	7	3.1		1 cs				0.160	4.0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.88	758.9	29.97	761.2	49.9	9.9	80	wnw.	7	3.1			10			0.15	3.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.22	742.2	29.76	756.0	54.9	12.7	57	s.			3		6			0.031	0.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.93	734.8	29.70	754.3	47.7	8.7	77	nw.	7.4	3.3			10			0.004	0.1		Dr. Wierzbiski
Eperies	28.76	730.4	29.63	752.7	48.6	9.2	87	calm			0		10 ns			0.535	13.6		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.20	716.3	29.61	752.2	52.9	11.6	85	nw.			4		4			0.165	4.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.55	725.2	29.91	759.8	43.9	6.6	85	w.			2		10			0.512	13.0	gloomy	The Staff.
Lemberg	28.93	727.1	29.62	752.3	44.8	7.1	86	ne.			3		10			0.476	12.1		Dr. T. Stanecki.
Pola	29.67	753.7	29.78	756.5	59.9	15.5	57	ene.			3		7			1.189	30.2		I. R. Hydrographic Office.
Szathmar	29.15	740.3	29.61	752.1	48.9	9.4	89	w.			4		10			0.280	7.1		Joseph Midlinszky, S. J
Szegedin					55.4	13.0	91	w.			2		10			0.102	2.6		Karl Stuccel.
Trieste	29.69	754.1	29.79	756.6	61.9	16.6	32	n.			1		1			0.024	0.6		Royal Academy.
Vienna	29.11	739.5	29.84	757.8	48.9	9.4	74	w.			3		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.22	767.6	30.32	770.1	50.6	10.3	64	nw.	9	4.0			4			0	0	blue sky	W. Boswell.
Armagh, Observatory	30.16	766.1	30.40	772.1	51.3	10.7	76	nw.	2	0.9			3					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			30.34	770.6	52.0	11.1	69	nnw.	8	3.6			2					blue sky	John Hartnup.
Bolton, Sharples	29.78	756.4	30.33	770.4	52.4	11.3	66	ne.	6	2.7			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.90	759.4	30.30	769.6	52.5	11.4	64	ne.			2		5			blank	blank	d. clouds	McLandsborough & Preston.
Cardington	30.15	765.8	30.26	768.6	54.0	12.2	71	n.			1.0		8					overcast	John McLaren.
Chatham, School M. E.	30.14	765.5	30.31	769.9	53.6	12.0	80	n.			2		8					gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.09	764.3	30.32	770.1	54.1	12.3	64	ene.			1		3					blue sky	The Staff.
Fort Napier, Natal	27.87	707.9	30.09	764.3	87.0	30.6	47	e.			1		1					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	83.0	28.3	83	w.			3		2					raining	J. W. Smith.
Galway, Queen's College	30.32	770.1	30.35	770.9	56	13.3	75	nw.			1		0			0.04	1.0	blue sky	Wm. Ryan.
Gibraltar, Mediterranean	30.02	762.5	30.08	764.0	69.0	20.6	90	nw.			5		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.07	763.8	30.28	769.1	52.4	11.3	60	sw.			3		2					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.06	763.5	30.24	768.1	54.8	12.7	69	n.			3		3					blue sky	The Staff.
Guernsey	29.95	760.7	30.25	768.3	53.5	11.9	69	nne.			2		5			blank	blank	d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.22	767.6	30.25	768.3	53.9	12.2	67	nne.	16	7.2			5					d. clouds	The Staff.
Leicester, Museum	30.02	762.5	30.29	769.4	55.0	12.8	65	ne.			2		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.96	761.0	71.2	21.8	66	nw.			2		7			0.30	7.6	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.08	764.0	30.13	765.3	84.2	29.0	80	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.78	756.4	30.30	769.6	53.3	11.8	73	nne.			2		2					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.06	763.5	30.28	769.1	51.8	11.0	74	n.			4		10					overcast	The Staff.
Plymouth	30.21	767.3	30.29	769.4	55.8	13.2	64	nne.			3		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.16	766.1	30.26	768.6	51.4	10.8	77						1					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	81.8	27.7	55	sw.			2		2					misty	W. H. Lyne.
Sheffield	30.05	763.3	30.34	770.6	53.5	11.9	88	n			2		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.33	770.4	30.36	771.1	55.3	12.9	69	nw.			1		1			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.33	770.4	54.0	12.2	57	ene.	2	0.9			6					d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					54.5	12.5	74	n.			1.3		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.31	769.9	30.38	771.6	58	14.4	58	ne.			4		4					d. clouds	W. Newcomoe.
Valencia, Observatory	30.38	771.6	30.40	772.1	56.5	13.6	78	n.	5	2.2			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.62	752.3	30.02	762.5	68.7	20.4	61	nw.	12.4	5.5		9 ck	0	w.		0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.07	763.8	30.11	764.8	40.0	4.4		w.	7	3.1		10 ck	0			inap.	inap.	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.5	30.10	764.5	38	3.3	75	w.	9	4.0		0	0			0.025	0.6	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.07	763.8	30.13	765.3	36	2.2	82	sw.	8	3.6		8 ck	2 k	sw.	sw.	inap.	inap.	fair	G. A. Blair.
Cornwall, Ontario	30.16	766.1	30.36	771.1	28.7	−1.8	95	nw.			1	6 cs	3 s	nw.		0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.00	762.0	30.05	763.3	38.0	3.3		nw.			3	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T*	27.65	702.3			38	3.3	81	w.	6	2.7		0	fg			1.16	29.5	foggy	Alex. Taylor.
Father Point, Quebec*	30.15	765.8	30.17	766.3	38	3.3	82	w.	18	8.0			8 s		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.22	742.2	30.07	763.8	42	5.6	100	se.	3	1.3			10 n			0.43	10.9	light fog	James Stewart.
Fredericton, N. B	30.18	766.6	30.25	768.3	34.0	1.1	73	nw.	4	1.8		1 c	9 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B	30.12	765.0	30.17	766.3	37	2.8	89	w.	12	5.4		2 k	0	nw.		0	0	fair	J. Chipman Seeley
Granton, Ontario	29.09	738.9	30.22	767.6	40.0	4.4	91	se.	2	0.9			10 n			0.06	1.5	raining	Jas. Grant.
Halifax, N. S*	30.08	764.0	30.21	767.3	35	1.7	82	w.	6	2.7		0	0			0.030	0.8	clear	A. Allison.
Hamilton, Ontario	29.89	759.2	30.30	769.9	38.5	3.6	86	ne.			1	10 cs	0			0	0	overcas	Geo. Dickson, B. A.
Kingston, Ontario*	30.01	762.2	30.36	771.1	41	5.0	76	se.	4	1.8		10 cs	0	e.		c	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.00	762.0	30.04	763.0	42.5	5.8	66	w.			4	6 k	0	w.		0	0		C. H. Rigby.
London, Ontario	29.26	743.2	30.18	766.6	40.7	4.8	91	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.73	704.3	30.07	763.8	34	1.1	90	calm	0	0		0	8 ks			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.08	713.2	29.99	761.7	41	5.0	96	sw.	2	0.9			10 s		sw.	0.10	2.5	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.16	766.1	30.38	771.6	36	2.2	79	w.	5	2.2		5 c	0	nw.		0	0	fair	C. H. McLeod, C. E.
Ottawa, Ontario	30.15	765.8	30.39	771.9	26.4	−3.1	98	nw.				6 c	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.61	752.1	30.33	770.4	36	2.2	89	e.	8	3.6		2 ks	2 ks	w.	w.	0	0	fair	Rev. E. Mosley.
Peterboro, Ontario	29.44	747.8	30.20	767.1	35.7	2.1	78	calm			0	0	5 k			0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.52	749.8	30.23	767.8	44	6.7	93	e.	8	3.6			10 n			0.19	4.8	cloudy	W. P. Cooke.
Port Dover, Ontario	29.49	749.0	30.19	766.8	44	6.7	100	ne.	6	2.7			10 n			0	0	threatening	H. Morgan
Port Stanley, Ontario	29.50	749.3	30.15	765.8	44	6.7	93	e.	10	4.5			10 n		s.	0.05	1.3	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.70	703.6	30.07	763.8	36	2.2	96	sw.	8	3.6		0	2 s			0	0	foggy	Leslie Gordon.
Quebec, Quebec*	29.92	760.0	30.29	769.4	32	0.0	92	sw.	12	5.4		2 cs	0			0	0	fair	Capt. Ashe, R. A.
Rockliffe, Ontario*	29.80	756.9	30.29	769.4	27	−2.8	77	w.	2	0.9		5 c	fg.	w.		0	0	fair	A. H. McIntyre.
St. Andrews, N. B	30.19	766.8	30.24	768.1	34	1.1	79	nw.	3	1.3		0	0			0	0	clear	
St. John, N. B	30.08	764.0	30.22	767.6	35.0	1.7	69	nw.	12	5.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.86	758.4	30.01	762.2	37	2.8	100	w.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			29.84	758.0	42.8	6.0		n.			3					0.091	2.3		The Commandant.
Saugeen, Ontario*	29.51	749.5	30.24	768.1	40	4.4	73	se.	5	2.2			10 s			0	0	cloudy	
Stratford, Ontario	28.95	735.3	30.20	767.1	40.2	4.6	80	se.	5.0	2.2			10 s			0	0	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
S. W. Point, Anticosti	29.75	755.6	29.78	756.4	36	2.2	85	nw.			5	5 ck	5 ks	nw.	nw.	0	0	cloudy	Miss Grace Pope.
Sydney, C. B.	29.98	761.5	30.04	763.0	40	4.4	70	w.	12	5.4		5 k	0	nw.		0.02	0.5	fair	A. C. Hill, C. E.
Toronto, Ontario*	29.89	759.2	30.29	769.4	44	6.7	71	e.	12	5.4		5 cs	5 s	w.	w.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.11	739.4	30.20	767.1	40.8	4.9	80	ne.	9	4.0		0	9 s			0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N.S.*	30.20	767.1	30.27	768.8	42	5.6	70	nw.	12	5.4		0	2 k		nw.	0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.15	765.8	30.18	766.6	67.0	19.4	92	ne.	3.2	1.4		0	0			0	0	fine	I. Garfelt.
Springbok Fontein	27.87	707.9			83	28.3	43									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	30.02	762.6	30.10	764.6	55.4	13.0	95	se.			2	4	0	s.				fair	Samuel Redolez.
Iquique	30.04	763.0	30.07	763.7	63.5	17.5	70	sw.			3							cloudy	Rafael Moreno.
Niebla	29.47	748.6	29.58	751.3	51.8	11.0	97	nw.			3	0	7		nw.	1.339	34.0	drizzling	Federico Köhling.
Punta Caldera	30.02	762.4	30.10	764.6	59.0	15.0	83	se.			1	7 c	0	se.				fair	Manuel Tobar.
Punta Corona	29.63	752.7	29.82	757.5				nw.			2		10			0.173	4.4	cloudy	Francisco Alvarado.
Valparaiso	30.11	764.8	30.25	768.4	58.3	14.6	76	s.			1	0	7					fair	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.28	642.1																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	29.99	761.8	30.02	762.5	60.4	15.8	81	nne.	1.6	0.7		0	0			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.04	762.9	30.08	764.1	43.5	6.4	59	n.	11	5			6						Oversergent Fischer.
Fanoe	30.14	765.5	30.16	766.0	47.7	8.7	56	w.			2		9						Overloerer Lauridsen.
Godthaab, Greenland	29.61	752.1	29.65	753.2	29.7	— 1.3	86	e.			2		7						S. Kleinschmidt.
Jacobshavn, Greenland	29.50	749.3	29.55	750.5	28.4	— 2.0		e.			2		10					snowing	
Stykkisholm, Iceland	29.53	750.1	29.58	751.2	50.0	10.0	88	s.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.02	762.4	30.04	763.0	49.6	9.8	98	wsw.	25	11			10					raining	Overloerer Bergh.
Vestervig	30.02	762.4	30.11	764.7	45.7	7.6	65	ssw.			4		9					raining	Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.78	756.5			90.9	32.7		ne.	0.7	0.3			0			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.43	747.4	30.08	764.1	48.0	8.9	100	w.			1		10			0.102	2.6	raining	M. Labroue, Director.
Alençon, Normal School	29.03	752.5	30.18	766.5	52.2	11.2	83	s.			6		5		n.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	29.82	757.4	29.90	759.4	56.8	13.8	57	nnw.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.52	749.8	30.08	764.0	51.4	10.8	75	ese.			1		8		ne.	0.154	3.9	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.89	759.1	30.16	766.0	53.1	11.7	56	ne.			1		8		ne.	0.008	0.2	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.07	738.4	29.95	760.7	45.0	7.2	94	e.			2		5		sw.	0.024	0.6	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.77	756.2	30.04	762.9	49.3	9.6	92	ne.			1		10			0.154	3.9	raining	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.12	765.0	54.5	12.5	76	w.			1		n		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.01	762.2	30.25	768.4	55.4	13.0	68	n.			4		4		ne.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	30.03	762.8	30.11	764.8	56.1	13.4	73	ne.			2				ne.	0.12	3.		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.76	755.9	30.08	764.1	49.5	9.7	95	nne.			1		5		nnw.	0.043	1.1	cloudy	M. Jadot, Director.
Charleville, Normal School	29.58	751.2	30.10	764.4	52.9	11.6	63	nne.			1		10			0.079	2.0	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.68	728.4	30.06	763.6	45.0	7.2	80	se.			1		10			0.055	1.4		M. Alluard, Director.
Cluny, Normal School	29.20	741.6	30.05	763.3	49.3	9.6	85	n.			1				nw.	0.126	3.2		M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.7	30.05	763.2	53.4	11.9	58	n.			1		5 kn	n.	n.	0.126	3.2	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.7	29.86	758.5	50.9	10.5	94	nw.			4		2 n		sw.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.71	729.2	29.82	757.4	59.9	15.5	39	n.			2		3		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.8	29.98	761.4	50.4	10.2	80	nnw.			1		kn		n	0.532	13.5		M. Ablard, Director.
Guéret, Normal School	28.47	723.0	30.06	763.6	45.6	7.2	83	ne.			1		10 n		ene.			raining	M. Delorme, Dir.
Lamballe, Normal School	29.85	758.3	30.13	765.3	55.4	13	66	nnw.			2		5		nnw.	0.35	9.	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.45	747.9	30.02	762.4	51.1	10.6	86	w.			1		10			0.232	5.9	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.6	30.21	767.2	58.1	14.5	55	ne.			3		5		ne.	0	0	½ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.98	736.0	30.05	763.2	48.2	9.0	72	n.			1		10 n		nne.	0.791	20.1	covered	M. Andre, Director
Mans, Normal School	29.84	757.9	30.15	765.9	52.0	11.1	72	n.			4		10		n.	0.126	3.2	light rain	M. Richard, Director
Marseille, Observatory	29.58	751.4	29.85	758.3	60.8	16.0	41	wnw.			3		6		nw.	0	0		M. Stephan, Director.
Montlouis	24.97	634.2	29.81	757.2	41.0	5.0	69	s.	9.4	4.2			5		ne.	0	0		M. de Cave for Dr. Fines.
Montpellier, Normal School	29.78	756.4	29.89	759.2	59.0	15	76	nnw.			6		5			0	0	cloudy	M. Gelzin, Director.
Nancy	29.26	743.2	30.05	763.3	49.3	9.6	81	nne.			1		k		ne.	0.087	2.2		M. Hasse, Director.
Nantes, Observatory	30.01	762.2	30.17	766.3	53.4	11.9	63	nne.			1		7kn;k;n		nne.	0.063	1.6		M. Lareque, Director.
Perpignan, Observatory	29.87	758.7	29.98	761.5	56.5	13.6	52	nw.	13.0	5.8			10		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.5			23.7	— 4.6		n.			2		5		n.	0.906	23.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.15?	740.4?	30.22?	767.7?	55.4	13	45	n.			3		2	n.	n.	0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.08	637.0			30.7	— 0.7	100	ne.			2		10			0.614	15.6	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.02	762.5	30.05	763.3	54.3	12.4	79	nne.			2		8		ne.	0.08	2.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.5	30.04	763.0	55.2	12.9	67	n.			2		2		n.	0.063	1.6	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.85	707.3	30.02	762.5	46.4	8	94	nw.			2		5		se.	0.24	6.	fair	M. Seger, Director.
Rouen, Normal School	30.11	764.7	30.15	765.9	57.2	14	80	e.			4		5	nne.		0.083	2.1	cloudy	M. Mouillot, Dir.
St Lô	30.10	764.4	30.24	768.0	52.2	11.2	74	ne.			2		10		ne.	0.114	2.9	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.97	761.2	30.13	765.4	51.6	10.9	74	ne.			1		10		ne.	0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.35	745.4	30.07	763.8	48.9	9.4	92	w.			1		10	w.		0	0	covered	M. Baillard, Director.
Tours	29.92	759.9	30.10	764.4	55.0	12.8	65	nnw.			1		8	ne.	ne.	0.098	2.5	very cloudy	M. de Tastes.
Versailles, Observatory	29.63	752.7	30.13	765.2	51.1	10.6	72	ne.			2					0.016	0.4		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.94	760.5	30.09	764.3	52.0	11.1	77	ne.	9.8	4.4			10 kn		nw.	0.508	12.9	raining	M. Cartier, Director.
GERMAN.																			
Ansbach	28.52	724.5	30.00	761.9	46.0	7.8	78	ne.			2		10	ne.		0.146	3.7		Prof. Jnedt.
Bamberg	29.11	739.3	29.95	760.7	46.8	8.2	67	n.			1		9 n		w.	0.051	1.3	raining	Prof. Dr. Hoh.
Berlin	29.85	758.3	30.00	762.0	47.1	8.4	67	n.			2		10			0.650	16.5		Dr. Lensch.
Breslau	29.32	744.8	29.85	758.2	47.5	8.6	69	n.			4		10			0.035	0.9	raining	Royal University Obs'y.
Carlsruhe	29.59	751.5	30.05	763.2	52.2	11.2	59	n.			1		5	ne.		0.079	2.0	raining	Albert Senz.
Cassel	29.35	745.4	30.06	763.5	48.0	8.9	78	nw.			6		7	nw.		0.106	2.7		Dr. H. Möhl.
Frankfort-on-the-Main	29.69	754.0	30.05	763.3	50.9	10.5	67	ne.			2		10			0.059	1.5		Physical Society.
Friedrichshafen	28.59	726.1	30.04	762.9	43.9	6.6	88	w.			3		10	w.		0.346	8.8	showery	Wilhelm, Chief Tel.
Hamburg	30.03	762.8	30.12	765.1	46.8	8.2	51	n.			5		7			0	0		E. Preiler.
Kiel	30.11	764.9	30.13	765.3	46.6	8.1	47	nne.			5		1			0.035	0.9		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.4	30.01	762.2	47.1	8.4	76	ne.			2		8	nne.		1.102	28.0	sprinkling	H. Leppig, Asst.
Magdeburg	29.92	760.0	30.11	764.9	49.6	9.8	50	n.			3		10	n.		0.185	4.7		Weather Observatory.
Memel	29.81	757.1	29.85	758.3	45.1	7.3	53	n.			5		8 k						Isserlmann.
Munich	28.12	714.2	29.98	761.4	44.4	6.9	86	nw.			4		7	nw.		0.378	9.6		Central Station.
Neufahrwasser	29.84	757.9	29.85	758.3	48.9	9.4	63	n.			3		5			0.730	18.7	squally	A. Lothes.
Neustadt, Palatinate	29.47	748.6	30.00	762.0	53.4	11.9	55	nnw.			2		7			0	0		Dicknether.
Stuttgart	29.05	737.9	29.95	760.8	50.0	10.0	62	n.			4		3	n.		0.217	5.5		Prof. Dr. Schoder.
Wustrow	30.02	762.5	30.05	763.2	45.1	7.3	82	n.			4		5 s			0.106	2.7		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.58	751.3	29.95	760.8	79.0	26.1		s.			2.0		2			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.70	754.3	29.75	755.6	82.8	28.2	67	sw.	20.0	8.9			0			0	0	blue sky	
Deesa	29.24	742.8	29.71	754.6	88.5	31.4	39	ne.	11.0	4.9			4	ne.		0	0	d. clouds	
Bombay	29.77	756.1	29.80	757.0	83.8	28.8	81	nw.	12.0	5.4			10		nw.	0.04	1.0	overcast	
Poona, Yarrowda	27.96	710.2	29.82	757.4	76.8	24.9	79	w.	7.0	3.1			9			0.09	1.5	d. clouds	
Trichinopoly	29.53	750.2	29.81	757.2	84.6	29.2	67	wnw.	inap.	inap.			10			0	0	overcast	
Bellary	28.26	717.9	29.71	754.6	86.0	30.0	52	nnw.	6.0	2.7			8			0	0	gloomy	
Belgaum	27.29	693.1	29.85	758.2	70.2	21.2	93	wsw.	7.0	3.1			10	w.		0.06	1.5	d. clouds	
Lahore	28.99	736.4	29.72	755.0	85.0	29.4	38	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.80	731.4	29.68	753.9	85.8	29.9	35	calm	0.5	0.2			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Agra	29.15	740.5	29.70	754.4	94.1	34.5	25	nw.	2.0	0.9			8		w.	0	0	d. clouds	
Nagpur	28.70	728.9	29.72	754.9	88.0	31.1	44	calm	2.0	0.9			5	w.		0	0	d. clouds	
Jubbulpore	28.41	721 6	29.75	755.7	83.0	28.3	57	w.	8.0	3.6			7		w.	0	0	d. clouds	
Lucknow	29.33	744.9	29.70	754.3	86.1	30.1	35	calm	0	0			0			0	0	blue sky	
Allahabad	29.40	746.8	29.71	754.6	82.7	28.2	60	calm	0	0			4			0	0	d. clouds	
Patna	29.51	749.6	29.70	754.3	84.4	29.1	62	calm	1.3	0.6			4			0	0	d. clouds	
Hazaribagh	27.72	704.0	29.71	754.6	81.3	27.4	47	nw.	7.0	3.1			0			0	0	blue sky	
Cuttack	29.64	752.8	29.72	754.9	86.5	30.3	68	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.67	753.5	29.69	754 1	84.5	29 2	79	wnw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.57	751.0	29.68	754.0	80.6	27.0	81	calm	0	0			0			0	0	blue sky	
Chittagong	29.61	752.1	29.70	754.4	83.9	28.8	79	calm	1.7	0.8			2			0	0	d. clouds	
Sibsagar	29.32	744.8	29.66	753.2	83.3	28.5	81	ne.	2.0	0.9			4			0	0	blue sky	
Jeypore	28.32	719.2	29.74	755.4	85.7	29.8	44	calm	0	0			5		sw.	0.03	0.8	d. clouds	
Zanzibar	30.05	763.3			85.4	29.7	54	se.	7.4	3.3			3	sw.	ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.38	746.2	29.78	756.5	60.3	15.7	46	calm	0	0			2			0.272	6.9		Prof. Giovanni Clodig.
Milan	29.32	744.6	29.83	757.7	59.7	15.4	40	sw.	5.6	2.5			1			0	0		Prof. G. V. Schiapparelli
Padua	29.69	754.2	29.80	757.0	59.9	15.5	49	sw.	6.9	3.1			2		ese.	0.177	4.5		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.3	29.85	758.3	57.2	14.0	37	ne.	1.8	0.8			6		n.	0	0		Prof. F. F. Denza.
Genoa	29.62	752.4	29.82	757.3	64.4	18.0	23	n.	3.1	1.4			2			0	0		Prof. G. M. Garibaldi.
Mondovi	27.93	709.5	29.85	758.2	55.4	13.0	43	n.			2		2			0	0		Prof. D. C. Bruno.
Pesaro	29.78	756.5	29.83	757.7	52.9	11.6	66	nw.	20.6	9.2			10		ne.	0.512	13.0		Prof. Luigi Guidi.
Florence	29.57	751.1	29.82	757.5	61.3	16.3	46	e.			2		5			0	0		Prof. Costantino Pitto(
Leghorn	29.66	753.3	29.74	755.5	63.3	17.4	43	w.	3.8	1.7			7			0	0		Prof. P. Monte.
Rome	29.62	752.3	29.79	756.7	63.3	17.4	46	w.	6.3	2.8			6			0	0		Prof. P. Tacchini.
Lecce	29.56	750.8	29.81	757.2	68.0	20.0	47	wsw.	29.8	13.3			3	w.		0.043	1.1		Prof. C. de Giorgi.
Cosenza	28 98	736.1	29.86	758.4	64.8	18.2	62	wsw.	3.1	1.4			9	sw.		0.772	19.6		Prof. D. Conti.
Cagliari	29.70	754.4	29.89	759.2	64.9	18.3	41	nw.			4		5	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.68	753.8	29.93	760.1	68.2	20.1	45	wsw.	7.4	3.3			5	w.		0.047	1.2		Prof. G. Caccatore.
Syracuse	29.83	757 6	29.87	758.7	69.8	21.0	54	w.	15.4	6.9			8	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.31	744.4	29.82	757.5	61.0	16.1	59	w.	9.8	4.4			1	nw.		0.299	7.6		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.93	760.3	29.96	761.2	59.7	15.4	97	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	29.96	761.0	29.99	761.7	61.9	16.6	79	e.	4.5	2.0		0	0			0	0	clear	K. Ogawa
Hamamatsu	29.69	754.2	29.79	756.7	68.8	20.4	92	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	29.84	757.8	29.85	758.1	72.0	22.6	59	ne.			2	0	2 s			0	0	clear	G. Miyanohaza.
Kanazawa	29.82	757.4	29.92	760.0	63.1	17.3	91	calm	0	0		0	2s;ks			0.300	7.6	fair	S. Endo.
Kioto	29.72	754.8	29.89	759.2	62.6	17.0	86	n.	0.5	0.2		0	4 ck			0	0	fair	M. Tojima.
Kochi	29.86	758.5	29.88	759.0	72.0	22.2	57	nw.	11.9	5.3		0	1 s			0	0	clear	K. Kusunose.
Miasaka	29.85	758.3	29.88	759.0	63.7	17.6	83	nne.			1	0	0			0.028	0.7	clear	K. Masusaki
Miyako	29.92	759.9	30.03	762.7	55.7	13.2	98	w.	2.1	0.9		1 ck	0			0.020	0.5	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.71	754.0	29.91	759.7	65.4	18.6	71	nne.	9.3	4.2		0	0			0	0	clear	S. Takehayasu.
Niigata	29.88	758.9	29.91	759.7	64.3	17.9	88	ne.	1.4	0.6		0	0			0	0	clear	Satoo & Tomikawa.
Nohiru	29.95	760.7	29.96	761 1	59.2	15.1	94	n.	8.5	3.8		0	3 s			0.620	0.5	fair	Yoslino & Midzushina.
Numazu	29.76	755.9	29.80	756.9	71.1	21.7	75	ne.			6	0	9 s			0	0	cloudy	R. Kaneda.
Osaka	29.88	758 9	29.89	759.3	63.5	17.5	85	ne.	3.1	1.3		0	0			0	0	clear	H. Omura.
Sakai	29.96	760.9	29.97	761.1	67.3	19.6	61	ne.			2	0	1 ks		e.	0	0	clear	Yamawchi&Sakamoto.
Shimonoseki	29.80	757.0	29.95	760.7	64.8	18.2	78	calm			0	0	1 ck		w.	0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	29.77	756.2	29.84	758.0	64.5	18.1	87	n.	15.1	6.7			10 s			0.078	2.0	cloudy	The Staff.
Wakayama	29.83	757.7	29.88	759.0	68.6	20.3	67	n.	4.2	1.9		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	68.2	20.1	58	se.	21.0	9.4			10 ks		se.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.44	620.8	30.15	765.8	57.6	14.2	81	wnw.	0.9	0.4		3 c	3ck;s			0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.73	755.1	29.99	761.7	77.0	25.0	91	ne.	1.6	0.8		6 cs	0	ne.		0	0	fair	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.17	766.3	30.17	766.3	54.1	12.3		ene.			4					0.673	17.1		
Groningen	30.11	764.7	30.10	766.1	48.2	9.0		ne.			1					0.177	4.5		
Helder	30.17	766.2	30.17	766.2	52.2	11.2		ene.			2					0.047	1.2		
Hellevoetsluis	30.17	766.3	30.17	766.3	54.0	12.2	56	ne.			3					0.252	6.4		
Utrecht	30.12	765.1	30.17	766.3	53.2	11.8	56	e.			3		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.4			81.9	27.7	76	nne.	1.0	0.9			9			0.906	23.0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.05	763.3	30.11	764.9	46.4	8.0	46	nnw.	16	7			3			0	0		
Brono	30.04	762.9	30.08	763.9	42.8	6.0	60	sw.			4		7			0	0		
Christiania	29.97	761.3	30.12	765.1	41.7	5.4	53	wsw.	7	3			1			0	0		
Gjæsvær	29.97	761.3	30.00	761.9	29.5	— 1.4		ssw.			2		10						
Lodingen	29.98	761.4	30.02	762.6	38.7	3.7	70	w.			2		7			0.205	5.2		
PORTUGUESE.																			
Angra, Azores					66.6	19.2	87	ese.	7.4	3.3			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.14	765 5	30.22	767 7	71.4	21.9	60	se.	3.8	1.7			10		n.	0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.7	30.13	765 2	64.8	18.2	49	nnw.	14.3	6.4			1		nnw.	0	0		The Staff.
Ponta Delgada, Azores	30.41	772.5	30.48	774.3	69.8	21.0	70	ene.	11.2	5.0			3			0	0		
Saint Paul de Loanda	29.77	756.2	29.97	761.3	77.0	25.0	68	w.	1.3	0.6			10			0	0		
San Salvador, Congo	28.10	715.3	29.99	761.7	79.7	26.5	67	calm			0		10			0	0		
Serra da Estrella	25.32	643.2	30.08	764 0	46.4	8.0	39	nw.	19.9	8.9			7			0	0		
RUSSIAN.																			
Akmolinski	28.15	715.0	29.19	741.5	54.0	12.2	84	sw.	4	2			10 n			0.532	13.5		Major K. Lasarew.
Archangel	29.70	754.3	29.72	754.8	29.5	— 1.4	76	n.	4	2			10			0	0	light clouds	Capt. Seeltwerstow
Ashurada	30.22	767.7	30.13	765.3	78.4	25.8	81	wnw.	11	5		0	6 k			0	0		
Astrakhan	30.09	764.2	30.02	762.4	66.7	19.3	61	s.	13	6		1 cs	0			0	0	light clouds	Capt. Wisganow.
Baku	30.18	766.6	30.13	765.4	78.6	25.9	74	s.	9	4		0	0			0	0		
Barnaul	29.19	741.3	29.67	753.7	55.8	13.2	54	ne.	2	1			10			0	0		Meteorological Obs'y
Bielosersk	28.87	733.2	29.33	744.9	46.2	7.9	94	sse.	9	4			10 s;n			0.417	10.6	raining	
Dorpat	29.41	747.1	29.66	753.4	37.0	2.8	80	n.	9	4			9ks;n			blank	blank		Observatory.
Ekaterinburg	28.81	731.8	29.77	756.2	47.3	8.5	66	nw.	18	8		3 cs	0			blank	blank		Meteorological Obs'y.
Elissawetgrad	29.11	739.4	29.54	759 4	65.8	18.8	81	sse.	4	2			10 n;s			0	0		
Irkutsk	28 17	715.5	29.78	756.3	55.6	13.1	59	calm			0		1			0	0		
Kasalinsk					60.6	15.9	46	nw.	22	10		0	2 n						
Kasan	29.57	751.0	29.84	757.8	53 6	12.0	53	s.	4	2			10 n			0	0		Observatory.
Kem	29.71	754.7	29.76	756.0	32.7	0.4	61	n.	9	4		0	7 n			0.087	2.2	h'vy clouds	
Kertch	29.67	753.7	29.70	754.3	77.5	25.3	69	se.	7	3		0	5 k			0	0		Lagorio & Sustyrea.
Kieff	28.90	734.0	29.52	749.8	55.8	13.2	85	w.	2	1			10 n			0.181	4.6		Observatory.
Koslov	29.05	737.9	29.55	750 5	54.5	12.5	95	sse.	2	1			10 n			0.335	8.5		
Libau	29.82	757.4	29.84	758.0	44.2	6.8	49	n.	16	7			9			0.031	0.8		E. Quass.
Lugan	29.39	740.4	29.58	751.3	84.7	29.3	27	ssw.	18	8			8			0	0		Meteorological Obs'y.
Moscow	29.06	738.0	29.53	750.0	51.8	11.0	77	wsw.	7.8	3.5			10 n			0	0		Meteorological Obs'y
Nikolaiev	29.72	754.8	29.79	756.0	77.2	25.1	63	sw.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.80	756.9	29.89	759.1	34.5	1.4	87	calm	0	0		0	4 n			0	0		Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.76	756.0	29.91	759.6	69.4	20.8	85	calm	0	0	.....	0	5 k	.....	.....	0.433	11.0	.....	Physical Observatory.
Petro-Alexandrovsk	29.72	754.9	30.06	763.6	71.2	21.8	38	wnw.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.21	741.8	29.41	746.9	30.2	— 1.0	100	nne.	45	20	.....	.....	10	.....	.....	1.496	38.0	.....	Dr. Bergmann.
Pinsk	29.10	739.0	29.60	751.7	45.7	7.6	93	nw.	9	4	.....	.....	10 n	.....	.....	0	0	.....	
Poti	29.82	757.3	29.85	758.1	91.9	33.3	45	e.	16	7	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.43	747.5	29.45	748.1	35.1	1.7	88	nnw.	20	9	.....	.....	10 n	.....	.....	0.583	14.8	.....	Central Physical Obs'y.
Samarkand	27.62	701.5	30.01	762.3	71.2	21.8	36	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	
Semipalatinsk	28.95	735.4	29.59	751.5	64.6	18.1	59	sw.	9	4	.....	.....	10	.....	.....	0.039	1.0	.....	Major Lasarew
Sevastopol	29.46	748.3	29.66	753.4	84.4	29.1	35	sw.	27	12	.....	5 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	28.96	735.6	29.50	749.4	54.9	12.7	82	s.	9	4	.....	.....	10	.....	.....	0.039	1.0	.....	
Tashkend Laboratory	28.28	718.3	29.89	759.2	71.2	21.8	46	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Torch, A. M
Tiflis	28.71	729.2	30.05	763.3	84.4	29.1	29	se.	7	3	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.18	690.4	29.58	751.2	68.4	20.2	47	calm	0	0	.....	.....	10 n	.....	.....	0.551	14.0	.....	
Viatka	29.16	740.6	29.79	756.7	43.2	6.2	81	sw.	2	1	.....	.....	10	.....	.....	0	0	.....	
Warsaw	29.28	743.8	29.71	754.7	44.8	7.1	80	n.	13	6	.....	.....	10 kn	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.60	751.8	29.89	759.3	37.4	3.0	88	w.	7	3	.....	.....	10	.....	.....	0.130	3.3	raining.	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.8	67.3	19.6	69	se	6.3	2.8	.....	0	8	.....	.....	0	0	.....	Antonio Molins.
Bilbao, Met. Obs'y	30.04	762.9	30.10	764.4	51.3	10.7	97	nw.	2.5	1.1	.....	.....	10	.....	.....	0.713	18.1	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.09	688.2	30.10	764.6	49.1	9.5	70	w.	6.9	3.1	.....	.....	9	.....	.....	0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.0	30.07	763.7	56.7	13.7	50	s.	4.0	1.8	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	29.84	758.0	29.98	761.6	68.7	20.4	65	wsw.	4.0	1.8	.....	3	4	e	.....	0.472	12.0	rainy	Olayo Diaz, Director.
Oviedo	29.43	747.5	30.19	766.8	50.9	10.5	88	e.	8.7	3.9	.....	6 n	6 n	e.	e.	0.772	19.6	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.28	743.6	30.19	766.8	53.1	11.7	96	n.	13.6	6.1	.....	.....	10	.....	.....	0.028	0.7	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.05	763.2	30.12	764.9	77.5	25.3	83	ese.	1.1	0.5	.....	cs	k	.....	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.79	756.7	29.85	758.2	80.4	26.9	73	n.	2.2	1.0	.....	3 cs	3 ks	.....	nw.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.08	761.4	30.07	763.8	67.1	19.5	65	w.	2.8	1.3	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.98	761.6	30.08	763.9	77.7	25.4	97	calm	0	0	.....	2 k	3 kn	w.	w.	0.087	2.2	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.01	762.3	30.05	763.3	28.4	— 2.0	80	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	30.02	762.4	30.07	763.7	35.6	2.0	51	n.	.....	.....	4	.....	1	.....	.....	0	0	.....	
Hernosand	29.85	758.2	29.90	759.5	41.0	5.0	42	n.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Stockholm	29.83	757.7	30.01	762.2	36.0	2.2	75	n.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Wisby	29.85	758.2	29.91	759.7	41.0	5.0	57	ne.	.....	.....	6	.....	10	.....	.....	0.102	2.6	raining	
Sub-series.																			
Upsala	29.77	756.1	29.85	758.3	36.3	2.4	59	nnw.	17.4	7.8	.....	.....	8	.....	n.	0.008	0.2	snowing	H.H.Hildebrandesson
Swiss.																			
Geneva	28.59	726.1	30.04	762.9	47.1	8.4	79	n.	.....	.....	2	.....	5	.....	.....	0.094	2.4	cloudy	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.75	755.6	82.8	28.2	43	w.	17	7.5	.....	.....	2	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.93?	760.3?	68.4	20.2	.....	s.	.....	.....	1	.....	2	.....	.....	0.20	5	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.87	758.6	85.5	29.7	73	nw.	.....	.....	1	.....	0	.....	.....	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.55	649.0	.....	.....	61	16.1	67	sw.	.....	.....	2	.....	4 n	.....	calm	0	0	.....	Fred L. Kingsbury.
United States.																			
Albany, New York	30.36	771.1	30.44	773.2	37	2.8	82	w.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.57	751.1	30.24	768.1	45	7.2	83	e.	10	4.5	.....	.....	10 n	.....	.....	0.18	4.6	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	30.00	762.0	56.0	13.3	83	se.	7	3.1	.....	0	6 s	.....	.....	c	0	fair	J. B. Turton.
Assinnaboine, Ft., Montana	27.20	690.9	30.12	765.0	40	4.4	82	ne.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.08	738.0	30.27	768.8	59.0	15.0	100	e.	10	4.5	.....	.....	fg.	.....	.....	0	0	dense fog	Edward A. Beals.
Atlantic City, New Jersey	30.38	771.6	30.39	771.9	53	11.7	48	e.	7	3.1	.....	5 c	0	.....	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.14	765.5	30.33	770.4	60.0	15.6	81	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	Louis Duane.
Baltimore, Maryland	30.36	771.1	30.41	772.4	51	10.6	72	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.38	771.6	30.40	772.1	53.0	11.7	61	se.	10	4.5	.....	2 cs	1 k	.....	nw.	0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.51	724.1	30.13	765.3	34.0	1.1	72	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.24	691.9	30.15	765.8	43	6.1	76	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.26	717.8	30.14	765.5	36	2.2	100	n.	3	1.3	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	B. O. Lenoir.
Block Island, Rhode Island	30.39	771.9	30.42	772.7	42.5	5.8	70	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. T. Eiker
Boise City, Idaho	27.19	690.6	30.05	763.3	40	4.4	92	calm	0	0	.....	.....	10 s	.....	.....	0.69	17.5	cloudy	B. E. Light.
Boston, Massachusetts	30.26	768.6	30.42	772.7	38.0	3.3	58	w.	6	2.7	.....	1 c	1 s;hz	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.10	764.5	30.16	766.1	75.0	23.9	90	calm	0	0	.....	9 c	1 k	s.	s.	0	0	cloudy	John McGlone.
Buffalo, New York	29.48	748.8	30.24	768.1	42.5	5.8	55	ne.	8	3.6	.....	0	8 s	.....	w.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.06	712.7	30.11	764.8	32	0.0	88	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Schneider.
Cairo, Illinois	29.74	755.4	30.14	765.5	69.7	20.9	95	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.13	3.3	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.94	760.5	30.14	765.5	44.7	7.1	88	se.	5	2.2	.....	0	0	.....	.....	0.26	6.6	clear	O. D. Stewart.
Cape Henry, Virginia	30.32	770.1	30.34	770.6	57.0	13.9	72	e.	20	8.9	.....	.....	10 ks	.....	e.	inap.	inap.	cloudy	A. K. Alderson.
Cape May, New Jersey	30.35	770.9	30.38	771.6	54.0	12.2	58	se.	10	4.5	.....	.....	10 s	.....	w.	0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.38	746.2	30.07	763.8	50	10.0	86	nw.	15	6.5	.....	.....	10 n	.....	nw.	0.06	1.5	light rain	J. J. McLean.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	79.5	26.4	91	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	63.0	17.2	93	ne.	6	2.7	.....	.....	10 s	.....	ne.	inap.	inap.	threatening	J. H. Smith.
Charlotte, N. Carolina	29.48	748.8	30.34	770.6	51.5	10.8	96	e.	4	1.8	.....	.....	10 n	.....	e.	1.28	32.5	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.37	746.0	30.20	767.1	69.5	20.8	97	s.	10	4.5	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	30.14	765.5	30.3	— 0.9	54	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.40	746.7	30.10	764.5	54.0	12.2	86	calm	0	0	.....	10ck;cs	0	.....	.....	0.09	2.3	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.34	770.6	30.36	771.1	55	12.8	69	se.	7	3.1	.....	.....	10s;ks	.....	e.	inap.	inap.	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.44	747.8	30.10	764.5	62.0	16.7	84	s.	3	1.3	.....	.....	10 s	.....	s.	0.31	7.9	cloudy	L. Dunne.
Cleveland, Ohio	29.37	746.0	30.11	764.8	49.5	9.7	75	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.23	742.4	30.09	764.3	55	12.8	83	e.	4	1.8	.....	0	4 s	.....	sw.	0.30	7.6	fair	D. Cuthbertson.
Concho, Fort, Texas	28.23	717.0	30.18	766.6	67.8	19.9	90	s.	10	4.5	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	O. E. King.
Custer, Fort, M. T.	26.79	680.5	30.03	762.7	36	2.2	64	se.	2	0.9	.....	5 c	0	sw.	.....	0	0	fair	T. Gibson.
Davenport, Iowa	29.50	749.3	30.16	766.1	54	12.2	86	n.	4	1.8	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.31	642.9	30.16	766.1	60	15.6	84	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	J. Williams.
Dayton, Washington T'y	28.35	720.1	30.14	765.5	33.0	0.6	85	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.46	646.7	30.14	765.5	39.5	4.2	68	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.37	771.4	30.39	771.9	55	12.8	62	se.	14	6.3	.....	.....	10 s	.....	se.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.84	630.9	30.10	764.5	41.0	5.0	43	s	4	1.8	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.28	743.7	30.20	767.1	47	8.3	93	w.	2	0.9	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.12	765.0	51.0	10.6	93	ne.	7	3.1	.....	.....	10 n	.....	.....	0.01	0.3	light rain	E. R. Brace.
Dodge City, Kansas	27.54	699.5	30.18	766.6	50	10.0	80	e.	4	1.8	.....	4 k	0	e.	.....	0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.45	748.0	30.17	766.3	50.8	10.4	91	nw.	1	0.4	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.13	765.3	48	8.9	100	ne.	10	4.5	.....	.....	10 s	.....	ne.	0.71	18.0	cloudy	N. B. Conger.
Eastport, Maine	30.20	767.1	30.20	768.6	36.0	2.2	69	w.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	D. C. Murphy.
Elliott, Fort, Texas	27.39	695.7	30.18	766.6	59	15.0	84	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	J. C. Rickli.
El Paso, Texas	26.39	670.3	30.13	765.3	60.1	15.6	100	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.42	747.3	30.15	765.8	47	8.3	77	se.	6	2.7	.....	.....	10 n	.....	.....	inap.	inap.	light rain	C. A. Shaw.
Escanaba, Michigan	29.49	749.0	30.16	766.1	48.0	8.9	86	se.	5	2.2	.....	.....	10 s	.....	se.	0.21	5.3	cloudy	George Heathcote.
Galveston, Texas	30.16	766.1	30.20	767.1	78	25.6	88	sw.	2	0.9	.....	0	7 ks	.....	sw.	0	0	fair	E. O'C. MacInerney
Grand Haven, Michigan	29.42	747.3	30.09	764.3	48.0	8.9	93	e.	8	3.6	.....	.....	10 s	.....	e.	0.40	10.2	cloudy	Wm. H. Fallon.

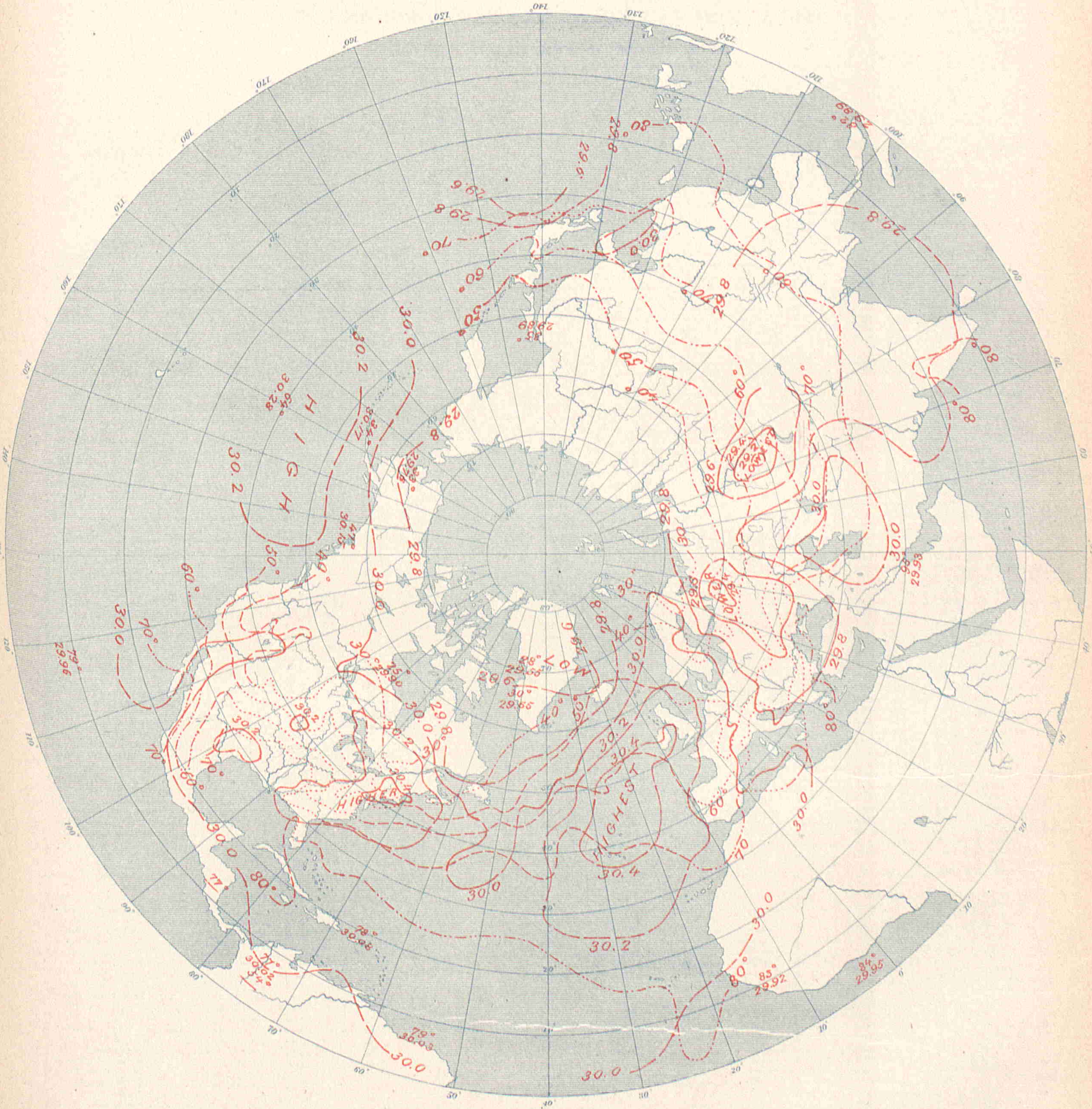
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.31	642.9	30.01	762.2	58.3	14.6	64	se.	2	0.9		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.27	768.8	30.28	769.1	60.0	15.6	100	ne.	16	7.2			10 n		ne.	22.4	0.88	light rain	R. M. Crawford.
Helena, Montana	25.76	654.3	30.06	763.5	45	7.2	76	sw.	7	3.1			10 ks			0	0	cloudy	I. H. Jones.
Huron, Dakota	28.72	729.5	30.15	765.8	39.4	4.1	81	w.	2	0.9		0	fg.			0.3	0.01	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.08	764.0	57.8	14.3	93	calm	0	0			10 s			5.3	0.21	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.14	765.5	30.17	766.3	76.5	24.7	88	s.	6	2.7		1 c	0	n.		0	0	clear	I. A. Reed.
Jacksonville Florida	30.17	766.3	30.21	767.3	76.5	24.7	94	ne.	3	1.3		2 cs	5 s		ne.	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.49	749.0	30.16	766.1	54.0	12.2	93	n.	1	0.4			10 s			0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	81	27.2	79	e	4	1.8		0	4k;ks		e.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.32	770.1	30.34	770.6	58.8	14.9	87	e.	20	8.9			10 ks		e.	19.0	0.75	cloudy	Wesley Blake.
Knoxville, Tennessee	29.14	740.1	30.18	766.6	66.2	19.0	100	e.	3	1.3			10 n			27.9	1.10	heavy rain	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.13	765.3	51	10.6	86	s.	4	1.8			10 s			1.3	0.05	cloudy	S. C. Emery.
Leavenworth, Kansas	29.31	744.5	30.21	767.3	51	10.6	93	calm	0	0			fg.			0	0	dense fog	T. S. Outram.
Lewiston, Idaho	29.30	744.2	30.15	765.8	38.0	3.3	82	ne.	1	0.4		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.80	756.9	30.12	765.0	74.0	23.3	84	sw.	4	1.8		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.71	754.6	30.11	764.8	56	13.3	83	n.	3	1.3		0	5 s		ne.	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.49	749.0	30.06	763.5	64	17.8	93	e.	3	1.3			10 s		w.	2.5	0.10	cloudy	L. M Dey.
Lynchburg, Virginia	29.63	752.6	30.32	770.1	50	10.0	86	ne.	3	1.3			10 n		ne.	7.9	0.31	light rain	Jno. Healy.
Mackinaw City, Michigan	29.55	750.6	30.22	767.6	46.0	7.8	88	e.	8	3.6			10 n		e.	0.5	0.02	light rain	D. B. Notson.
Macon, Fort, North Carolina	30.26	768.6	30.27	768.8	61.0	16.1	100	ne.	21	9.4			10 s		ne.	8.1	0.32	cloudy	William Daly.
Maginnis, Fort, Montana	25.57	649.5	30.11	764.8	36	2.2	58	nw.	1	0.4		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.45	748.0	30.19	766.8	45.0	7.2	76	se.	5	2.2			10 n		se.	7.6	0.30	light rain	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.12	765.0	74	23.3	84	sw.	6	2.7		7 cs	1 s	w.	sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.12	765.0	53	11.7	93	e.	2	0.9			10s;fg		e.	1.0	0.04	cloudy	W. Line.
Mobile, Alabama	30.17	766.3	30.21	767.3	72	22.2	97	calm	0	0		0	fg.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.97	761.2	30.20	767.1	73.5	23.1	83	sw.	3	1.3		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.08	738.6	30.10	764.5	43	6.1	93	n.	12	5.4			10 s		n.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.92	607.6	30.26	768.6	16.0	− 8.9	100	nw.	30	13.4		3 cs	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.53	750.0	30.11	764.8	71.0	21.7	93	sw.	2	0.9			10 n		w.	11.2	0.44	thnd'r storm	L. N. Jesunofsky.
New Haven, Connecticut	30.32	770.1	30.44	773.2	33.0	0.6	68	n	7	3.1		4 ck	0			0	0	fair	J. H. Sherman.
New London, Connecticut	30.42	772.7	30.47	773.9	40	4.4	73	calm	0	0		1 ck	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.14	765.5	30.19	766.8	74.5	23.6	90	nw	4	1.8		3 c	fg.	w.		0	0	clear	M. Herman.
New York, New York	30.25	768.3	30.43	772.9	46.7	8.2	57	ne.	6	2.7		0	4s;fg			0	0	fair	H. J. Peurod.
Norfolk, Virginia	30.30	769.6	30.32	770.1	56.2	13.4	86	e.	7	3.1			10s;fg			0.5	0.02	cloudy	Wm. Davis.
North Platte, Nebraska	27.22	691.4	30.18	766.6	38.6	3.7	88	nw.	3	1.3		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	41.0	5.0	92	calm	0	0			10 s			1.3	0.05	cloudy	J. Dascomb.
Omaha, Nebraska	29.00	736.6	30.20	767.1	48.4	9.1	89	calm	0	0		0	fg.			0	0	clear	A. Pollak
Oswego, New York	30.02	762.5	30.35	770.9	40.0	4.4	65	se.	7	3.1		7 cs	0	nw.		0	0	fair	J. G. Linsley
Palestine, Texas	29.66	753.4	30.22	767.6	73.0	22.8	97	s.	12	5.4			10 ks		s.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.18	766.6	30.21	767.3	70.3	21.3	94	sw.	4	1.8		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.31	769.9	30.41	772.4	43	6.1	83	e.	6	2.7		3 c	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.91	454.9	30.19	766.8	19	− 7.2	80	w.	44	19.7		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.32	744.7	30.14	765.5	51.3	10.7	80	se.	3	1.3			10 n		w.	0.3	0.01	light rain	G. C Schaeffer.
Port Huron, Michigan	29.42	747.3	30.11	764.8	44.0	6.7	96	e.	5	2.2			10 s			7.1	0.28	cloudy	M. H. Perry
Portland, Maine	30.29	769.4	30.34	770.6	37.0	2.8	79	w.	3	1.3		5 c	0	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.06	763.5	30.13	765.3	44.6	7.0	95	w.	7	3.1			10 s		sw.	10.2	0.40	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.96	761.0	53.5	11.9	60	sw.	11	4.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.37	771.4	30.40	772.1	45.5	7.5	49	n.	4	1.8		0	0			0	0	clear	C. N. Kitchel.
Red Bluff, California	29.67	753.6	30.02	762.5	50	10.0	63	n.	7	3.1		0	0			0.3	0.01	clear	J. R. Williams.
Rio Grande City, Texas	29.98	761.5	30.22	767.6	71.1	21.7	84	e.	2	0.9		0	2 s			0	0	clear	Fred. Belford.
Roseburg, Oregon	29.55	750.6	30.11	764.8	46.2	7.9	93	calm	0	0			10 n			6.9	0.27	light rain	J. J. Naury.
Sacramento, California	29.92	760.0	30.00	762.0	49.5	9.7	89	nw.	4	1.8		0	3 s			inap.	inap.	clear	J. A. Barwick
St. Louis, Missouri	29.55	750.6	30.17	766.3	58.7	14.8	96	n.	10	4.5			10 s			7.9	0.31	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.73	755.1	29.76	755.9	33	0.6	100	s.	24	10.7			10 n		s.	5.1	0.20	light rain	Fred. H. Clarke.
St. Paul, Minnesota	29.23	742.4	30.10	764.5	51.0	10.6	90	s.	3	1.3			10 s		w.	4.6	0.18	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.19	741.4	30.09	764.3	44	6.7	96	nw.	2	0.9			10 s			2.3	0.09	cloudy	C. B. Dilley
Salt Lake City, Utah	25.56	649.2	29.96	761.0	48	8.9	58	se.	2	0.9		4 k	0	sw.		0	0	fair	J. Craig.
San Diego, California	30.01	762.2	30.08	764.0	59.5	15.2	72	nw	2	0.9			10 s		nw.	0	0	cloudy	F. R. Day.
Sanford, Florida	30.12	765.0	30.16	766.1	76	24.4	90	ne.	3	1.3		0	fg.			0	0	dense fog	J. B. Marbury.
Sandusky, Ohio	29.42	747.3	30.11	764.8	51	10.6	86	s.	4	1.8			10 s		sw.	5.6	0.22	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.38	771.6	30.41	772.4	52.0	11.1	47	e.	9	4.0		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	52.0	11.1	86	w.	2	0.9		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.16	766.1	30.25	768.3	65.5	18.6	87	ne.	4	1.8			10s;fg		ne.	6.1	0.24	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.40	670.5	30.10	764.5	40	4.4	82	w.	4	1.8		10 k	0	s.		0	0	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	73.8	23.2	82	sw.	2	0.9		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W M. Mattingly.
Sitka, Alaska	30.08	764.0	30.15	765.8	47.1	8.4	86	e.	3	1.3			10 s		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.66	753.4	30.14	765.5	69.5	20.8	93	calm	0	0			10 s		n.	5.1	0.20	cloudy	J. B. Campbell
Smithville North Carolina	30.22	767.6	30.26	768.6	60.0	15.6	93	n.	10	4.5			10 s			1.5	0.06	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.13	765.3	34	1.1	82	n.	1	0.4		0	3 s			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.48	748.8	30.16	766.1	57	13.9	83	n.	8	3.6			10 s		n.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.14	689.3	30.16	766.1	68.0	20.0	93	se.	10	4.5		6 cs	0			0.5	0.02	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	30.05	763.3			45.0	7.2	93	ne.	5	2.2		0	5 s			0	0	fair	R. Connor.
Thomas, Camp, Arizona					59	15.0	41	e.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.38	746.2	30.08	764.0	51.2	10.7	80	e.	4	1.8			10 s			0.5	0.02	cloudy	A. Buell.
Unalaska, Alaska	30.15	765.8	30.17	766.3	34	1.1	89	sw.	2	0.9		0	0			0	0	clear	Samuel Applegate.
Verde, Fort, Arizona					55	12.8	53	w.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.92	760.0	30.18	766.6	71.5	21.9	87	s.	3	1.3		0	hz.			0	0	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.27	768.8	30.39	771.9	51.7	10.9	68	e.	4	1.8			10 s			0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.14	663.9	30.07	763.8	40.5	4.7	74	w.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.22	767.6	30.28	769.1	59.5	15.3	87	ne.	5	2.2			10 s		ne.	3.3	0.13	cloudy	Samuel A. Haney.
Yankton, Dakota	28.82	732.0	30.15	765.8	43.6	6.4	87	n.	3	1.3		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.79	756.7	29.94	760.5	55.7	13.2	86	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1		10 n		nw.	3.0	0.12	foggy	W. H. Jackson.
Bogota, U. S. C.	22.09	561.0			54.0	12.2	72	calm	0	0			10 s		nw	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.05	763.3	76.9	24.9	90	n.	2	0.9		0	2 s		ne.	0.5	0.02	clear	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	79	26.1	78	se.			2	5 ck	4 s	e.		0	0	fair	Dr. C. J. Herman.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	77	25.0	89	calm			0		10 ks		calm	14.2	0.56	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	90	ne.			2		2 ks		ne.	0	0	clear	Earl Flint.
York Factory, B. A.	29.84	757.9	29.90	759.4	24.5	− 4.2	94	nw.	12	5.4		4 k	4 s	nw.	nw.	0	0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 40° 48′, E. 24° 43′	29.72	754.9	81	27.2	48	wsw.			5		2	wsw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.15	765.8	71	21.7	85	nnw.			4		8	nnw.						d. clouds.
H. M. S. Flamingo, Plate Cove, N.F	29.80	756.9	44	6.7	92	s.			1									blue sky.
H. M. S. Himalaya, N. 37° 35′, E. 6° 20′	29.91	759.7	66	18.9	40	calm			0		3	ene.				3	wnw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.90	759.4	80	26.7	96	nnw.			1		0							blue sky.
H. M. S. Orontes, N 36° 37′, W. 15° 11′	30.31	769.9	68	20.0	72	nne.			5		2	n.				4	nne.	d. clouds.
H.P. M. S. Duoro, St. Thomas, W. I.	29.95	760.7	83.8	28.8	72	sse.			4		5		sw.			5	sw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.32	770.1	37	2.8	71	nw.	6	2.7			2		nw.	0	0			fair.
U. S. S. Alliance, N 42° 12′, W. 68° 18′	30.40	772.1	48	8.9	70	wnw.			3		2		nnw.	0	0	mod.	nw.	clear
U. S. S. Jamestown, N. 21° 50′, W. 50° 45′	30.13	765.3	81	27.2	96	e.			3		2					sm'h		clear.
U. S. S. Kearsarge, Mogador, Morocco	30.12	765.0	65	18.3	84	nne.			3		2					sm'h		fair.
U. S. S. Lancaster, off Tangier, Morocco	30.07	763.8	65	18.3	94	wnw.			2		0					sm'h		clear.
U. S. S New Hampshire, Newport, R. I.			48	8.9	70	ne.			1		2		nw.			sm'h		fair.
U. S. S. Portsmouth, off Hempstead Harbor, N.Y.	30.44	773.2	47	8.3	85	e			3		2		ne.					fair.
U. S. S. Powhatan, Sydney, C.B	30.04	763.0	41	5.0	82	nw.			3		5							fair.
U.S. S. Quinnebaug, Leghorn, Italy	29.83	757.7	66	18.9	54	nnw.			1		5		nnw.					fair.
U. S. S. Pinta, Sandy Hook, N.J	30.44	773.2	53	11.7	54	ese.			1		2		calm			sm'h		clear.
U. S. S. Saratoga, New York, N.Y	30.46	773.7	44	6.7	84	ne.			2–3		2		ne.	0	0	sm'h	ne.	fair.
U. S. S. Swatara, Boston, Mass	30.42	772.7	39	3.9	64	nnw.			1		2		nnw.	0	0	sm'h		fair.
U. S. S. Vandalia, Boston, Mass†	30.40	772.1	40	4.4	73	nw.			1		5							fair.
S. S. British Princess, N. 4° 0′ 14′ W. 50° 10′†	29.91	759.7	50	10.0		w.			4		9		w.	7 h'r	7 h'r	sm'h	w	cloudy.
S. S. Lord Clive, N. 43° 33′. W. 58° 12′						nw.			4		6		nw.	sh'rs	sh'rs	mod.	w.	cloudy.
S. S. Lord Gough, N. 52° 00′, W. 34° 02′	29.90	759.4	57	13.9		s.			6		10		s.	8 h'r	8 h'r	long	sw.	cloudy.
S. S. Ohio, N. 43° 15′ W. 58° 45†...	30.13	765.3	45	7.2	92	nnw.			3		3		nw.	1 h'r	1 h'r	mod.	nw.	clear.
S. S. Prussian, N. 44° 19′, W. 56° 55′	30.01	762.2	48	8.9		n.			5		5		n	0	0	mod.	nw.	fair.
S. S. Scandinavian, N. 42° 30′, W. 66° 50′	30.34	770.6	49	9.4		nw.			4		2		nw.	0	0	light	nw.	d. clouds.
S. S. Sardinian, N. 56° 08′, W. 13° 17′	30.28	769.1	55	12.8		ssw.			6		9		sw.	2 h'r	2 h'r	mod.	wnw.	hazy.
S. S. Jason, N. 40° 49′, W. 63° 48′†	30.28	769.1	57.2	14.0		wnw.			0–3		5 k?					2	nw.	cloudy?
S. S. Alvo, N. 33° 09′, W. 74° 14′*	30.19	766.8	71	21.7		ene.			5		10		e.	0	0	short	e.	overcast.
S. S. Ailsa, N. 26° 18′, W. 74° 08′			74	23.3	100	e.			4		0			0	0	light	ene.	clear.
S. S. Avilla, N. 24° 37′, W. 73° 37′ *†	30.17	766.3	82	27.8		ne.			2		3		ne.	rain	rain		w.	
S. S. Dorian, Malaga, Spain	29.94	760.5																fine.
S. S. Furnesia, N. 49° 47′, W. 68° 12′†	30.36	771.1	55	12.8	62	nw.			5		3		nw.	2 h'r	2 h'r	mod.	nnw.	fair.
S. S. Jerome, N. 13° 44′ W. 54° 50′ *	30.01	762.2	81	27.2		e			4		6		ene.	3 h'r	3 h'r	mod.	e.	fair.
S. S. Llandaff City, N 50° 28′, W. 22° 36′†	30.44	773.2	60	15.6		w.			4		9		w.	0	0	light	con.	hazy.
S. S. Cephalonia, N. 49° 30′, W. 24° 10′	30.54	775.7	63	17.2	89	wsw.			2		10			10 h'r	10 h'r	sli't.	sw.	dense fog.
S. S. Bothnia, N. 43° 14′, W. 49° 47′	29.93	760.2	66	18.9	84	calm			0		8		sw.	6 h'r	6 h'r	long	w.	cloudy.
S. S. Scythia, N. 42° 27′, W. 52° 41′	30.03	762.7	54	12.2	87	nw.			3		7		calm	2 h'r	2 h'r	mod.	nw.	
S. S. Samaria, N. 50° 30′, W. 22° 20′*	30.49	774.4	62	16.7		wsw.			4		9		ssw.	1 h'r	1 h'r	mod.	w.	cloudy.
S. S. Olinde Rodrignes, N. 23° 46′ W. 48° 45′*†	30.12	765.0	81	27.2		sse.			3		2		se.	0	0	mod	se.	clear.
S. S. Arizona, N. 42° 44′, W. 61° 50′	30.20	767.1	44	6.7		nnw.			5		5		nw.	0	0	mod	nw.	squally.
S. S. Bohemia, Hamburg, Germany*†	30.10	764.5				nne.			5		8		nne.	0	0			cloudy.
S. S. Frisia, N. 50° 00′, W. 13° 52′	30.44	773.2				e.			1		10		w.	8 h'r	8 h'r	long	w.	rainy.
S. S. Gellert, Hamburg, Germany	30.11	764.8	46	7.8	77	nne.			3		1?		nne.	0	0			cloudy.
S. S. Rugia, N. 42° 04′, W 60° 57′	30.17	766.3	50	10.0		nw.			6		4		nnw.	0	0	mod.	nnw.	fair.
S. S. Silesia, N. 42° 00′, W. 68° 00′	30.43	772.9	56	13.3		w.			4		3		w	0	0	mod.	n.	fair.
S. S. Nessmore, N. 38° 33′. W. 69° 50′	30.33	770.4	58	14.4	76	nne.			2		4		ne.	0	0	mod.	nne.	fine.
S. S. Hevelius, Liverpool, Eng			57	13.9		nw.			4				nnw.	0	0			clear.
S. S. Rio Grande, Galveston, Texas†	30.21	767.3	78	25.6		n.			1		5		w.	0	0			clear.?
S. S. Chalmette, N. 26° 50′, W. 79° 45′†	30.16	766.1	80	26.7		e.			5		4		e.	1 h'r	1 h'r	r'gh	ene.	fair.
S. S. Lone Star, N 36° 00′, W. 74° 40′			62	16.7		ne.			5		10		ne.	12 h'r	12 h'r	large	ne.	light rain.
S. S. Alleghany, Chesapeake Bay†	30.39	771.9	58	14.4		e.			3		4		e.	light	light			squally.
S. S. Archimede, N. 34° 52′, W. 52° 40′†	29.90	759.4	76	24.4		nnw.			5		6		nw.	7 h'r	7 h'r	h'vy	sw.	cloudy.
S. S. City of Merida, N. 23° 09′ W. 82° 22′ *†	30.10	764.5	80	26.7		ne.			1		2		ne.	0	0	mod.	ne.	fine.
S. S. Canada, N. 45° 48′, W. 51° 20′			48	8.9		w.			4		2			2 h'r	2 h'r	mod.	w.	fair
S. S. Denmark, N. 48° 13′ W. 25° 45′			59	15.0		sse.			3		10		s.	0	0	sli't	w.	dense fog.
S. S. Grecian, Montreal, Canada	30.38	771.6	42	5.6	83	w.			1		4			0	c			fair.
S. S. England, N. 50° 30′, W. 22° 56′	30.51	774.9				w.			4		10		w.			sm'h		foggy.
S. S. Erin, London, Eng			53	11.7		wnw.			5		4		w.	3 h'r	3 h'r			fair.
S. S. Greece, N. 41° 06′. W. 57° 42′			59	15.0	82	nnw.			6		6		nnw.	1 h'r	1 h'r	mod.	nnw	fair.
S. S. Holland, N. 49° 24′. W. 12° 37′	30.42	772.7	55	14.4		nnw.			2		5		n.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. The Queen, N. 48° 28′, W. 31° 58′	30.24	768.1	60	15.6		s.			5		8		sse.	0	0	mod.	sse.	hazy.
S. S. America, N. 44° 16′ W. 56° 42′*	29.97	761.2	49.0	9.4	64	wnw.			4		6?		w.	0	0	mod	w.	covered?
S. S. Donau, N. 50° 08′, W. 30° 24′	30.35	770.9				ssw.			5		8		ssw.			r'gh	var.	hazy.
S. S. Elbe, Bremerhaven, Germany	30.20	767.0	50.0	10.0	86	ne.			4		3?		ne.	0	0			cloudy?
S. S. Habsburg, N. 44° 48′, W. 52° 29′	29.97	761.2				wsw.			4		5		w.	1 h'r	1 h'r	long	wsw.	fair.
S. S. Hohenstaufen, N. 30° 37′ W. 19° 19′	30.22	767.6	71.6	22.0		n.			2		5		nw.	0	0	mod	ne.	fair.
S. S. Orinoco, N. 38° 31′, W 71° 35′ †	30.36	771.1	58	14.4		ne.			3		3		ne.	0	0	light	nne.	clear.
S. S. Main, N. 49° 53′, W. 24° 09′	30.55	776.0	60.8	16.0		w.			2							sm'h	wsw.	foggy.
S. S. Ohio, N. 47° 26′, W. 8° 10′	30.24	768.1				nne.			5		7		nne.	3 h'r	3 h'r	mod	ne.	fair.
S. S. Salier, N. 40° 23′, W. 68° 27′*	30.37	771.4	50.9	10.5		nnw.			4–5		2		nnw.	5 h'r	5 h'r	sm'h		clear.
S. S. City of Augusta, N. 37° 40′, W. 74° 56′†.	30.31	769.9				ne.			4		8?		e.			r'gh		clear?
S. S. Muriel, Saint Thomas, W. I	29.98	761.5	83	28.3		ene.			2		0			light	light	sm'h		clear.
S. S. Rhynland, N. 50° 00′ W. 30° 20′	30.38	771.6	55	12.8		ssw.			6		6		s.	0	0	mod	s.	hazy.
S. S. Pennland, Jersey City, N.J†	30.38	771.6	48	8.9	78	se.			2		3		se	0	0			clear.
S. S. Switzerland, N. 48° 36′, W. 41° 51′ *†	29.89	759.2				nnw.			3		10		wnw.	17 h'r	17 h'r	long	sw.	cloudy.
S. S. Vaderland, N. 49° 50′, W. 13° 10′	30.40	772.1	63	17.2		ne.			1		9		n.	2 h'r	2 h'r	mod	nw.	
S.S. Waesland, Antwerp, Belgium	30.13	765.3	55	12.8		ne.			4		5		ne	2 h'r	2 h'r			fair.
S. S. P. Oaland, N. 49° 42′ W. 11° 50′	30.43	772.9	59.7	15.4	87	n.			3		5		nne.			3	nw.	fair.
S. S. Schiedam, N. 48° 56′, W. 34° 11′	30.11	764.8	67.3	19.6	91	s.			6		8		sw.	3 h'r	3 h'r	long	wsw.	cloudy
S. S. Zaandam, New York, N. Y	30.35	770.9	52.5	11.4	85	w; s.			3		5		e.	10 h'r	10 h'r			hazy.
S. S. W. A. Scholten, N. 41° 24′, W. 64° 12′	30.19?	766.8?	50.0	10.0	80	wnw.			6		7		wnw.	0	0	3	wnw.	squally.
S. S. Valencia, La Guayra, Venezuela*†	29.98	761.5	83	28.3	79	calm			0		1		ene.	0	0	light	ene.	clear.
S. S. State of Georgia, N. 41° 42′, W. 63° 04′	30.26	768.6	47	8.3		nw.			5		5		n.	0	0	light	nw.	fair.
S. S. State of Indiana, Larne, Ireland*†	30.40	772.1				e.			2		2		e.	0	0			clear.
S. S. Thingvalla, New York, N. Y †	30.35	770.9	50.0	10.0		nw.			2		4		nw.	0	0			fair.
S. S. Otranto. N. 50° 45′, W. 19° 46′			64	17.8		w.			2		10		w.	0	0	short	w.	foggy.
S. S. Romano, Boston, Mass			50	10.0		wsw.			3		3		wsw.	0	0			clear.
S. S. Salerno, Grimsby roads. Eng			56	13.3		ne.			3		4		ne.	0	0			fair.
S. S. Oregon, N. 56° 37′. W. 22° 10′	30.15	765.8	57	13.9		sw.			3		10		sw.			mod	sw.	foggy.
S. S. Quebec, Plum Island, St Lawrence river	30.3[illegible]	771.1	36	2.2		wnw.			1		1		w.	0	0			clear.
S. S. Texas, N. 54° 15′, W. 46° 20′*†	29.80	756.9	55?	12.8?	93	ssw.			5		2		sw.	2 h'r	2 h'r	sm'h		
S. S. Olbers, N. 17° 22′, W. 54° 59′			82	27.8	91	nne.			3		5		nne.	0	0	light	ene.	fair.
S. S. Daniel Steinmann, N. 48° 28′, W. 41° 09′†	29.88	758.9	62	16.7		ssw.			4		10			22 h'r	22 h'r	h'vy	sw.	raining.
S. S. Adriatic, N. 49° 50′, W. 30° 31′*†	30.44	773.2	57	13.9		sw.			4				s.			mod.	s.	hazy.
S. S. Celtic, New York, N.Y†	30.41	772.4	56	13.3		se.			2		8		se.	0	0			cloudy.
S. S. Germanic, N 40° 38′, W. 70° 01′ *†	30.38	771.6	53	11.7		calm			0		0			½ h'r	½ h'r			clear.
S. S. Iowa, N. 48° 21′, W. 46° 54′ †	29.96	761.0	49	9.4		ese.			2		3		sse.	3 h'r	3 h'r	sm'h		clear.
S. S. Assyrian Monarch, N. 45° 57′, W. 50° 50′	29.94	760.5				w.			5		2		w.	0	0	mod.	w.	clear.
Bk. Arda, N. 28° 08′, W. 28° 00′						ene.			2		4		ene.	sh'rs	sh'rs	mod.	ene.	squally.
Bk. Alpheus Marshall, N. 7° 09′, W 21° 52′*†	29.95	760.7	79	26.1	100	wsw.			3		10		sw.	0	0	sm'h	var.	threatening.
Bk. Ariadne, N. 51° 28′, W. 35° 30′	30.02	762.5	59	15.0	100	s.			6		10		var.	15 h'r	15 h'r	mod.	s.	cloudy.
Bg. Abbie Clifford, N. 31° 40′, W. 65° 25′ †	30.08	764.0	72	22.2		ne.			5		6	se.	ne.	0	0	small	ne.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, N. 37° 50′, W. 74° 00′†	30.33	770.4				ese.			6		8		se.	0	0	chop	se.	threatening.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.42	772.7	66	18.9		e.			4									cloudy.
S. S. Antonio Lopez, Cadiz, Spain *	30.08	764.0	67.5	19.7	69	w.			3	1 c				0	0	mod.	w.	clear.
Schr. Adda Doane, N. 26° 01′, W. 58° 54′ *†	30.12	765.0				sw.			4		5		sw.	0	0	mod.	sse.	fair.
Bk. Adelaide, N. 1° 42′, W. 30° 47′			83	28.3		se.			5		1		sse.	0	0	mod	se.	clear
Bg. Belle of the Bay, Galveston, Texas†	30.15	765.8				nw.			2		5		sw.	0	0			fair.
S. S. Benledi, N. 32° —′, E. 30° 30′ *	29.88	758.9	81	27.2	78	nw.			1–2		0			0	0	sm'h		fine.
S. S. Burswell, Bristol Channel*†	30.37	771.4	62	16.7		ene.			2		0			0	0	sm'h		clear.
Bk. Ceylon, N. 13° 37′, W. 35° 52′†	30.04	763.0	84	28.9	83	ne.			4		8		ene.	0	0	mod.	ene.	hazy.
Schr. Clotilde, N. 33° 50′, W. 74° 52′ †	30 22	767.6	70	21.1		ene.			6		10		e.	16 h'r	16 h'r	r'gh	ene.	cloudy.
Schr. C. R. Flint, N. 7° 20′, W. 58° 04′			82	27.8		ene.			2		10		ene.	3 h'r	3 h'r	sm'h	ene.	raining.
Bk. Don Justo, N. 39° 08′, W. 68° 48′			55	12.8		n.			3		2		n.	0	0	mod.	n.	clear
S. S. D. J. Foley, N. 20° 00′, W. 74° 06′ *†	30.06	763.5	84	28.9	79	ene.			3		2		ne.	0	0	long	ne.	clear.
Bkt. David A. Preston, New York, N. Y.†	30.42	772.7				n.			3		8		nnw.	0	0			
Bk. Diamant, N. 48° 00′, W. 26° 42′			60.1	15.6	100	ssw.			4		10		wsw.	0	0	4	w.	foggy.
S. Dynomene, N. 14° 15′, W. 25° 25′	30.07	763.8	80	26.7	91	ne.			4		4			0	0	light	nne.	misty.
S. David Stewart, Chesapeake Bay			59	15.0		ese.			4		10							
S. E. J. Spicer, N. 45° 09′, W. 19° 40′	30.54	775.7	62	16.7	100	nnw.			5		10		n.			mod.	e.	foggy.
Bk. E. D. Bigelow, Galveston, Texas			85	29.4		calm			0		2		sse.	0	0			fair.
S. Festina Lente, N. 45° 51′, W. 57° 00′	29.97	761.2	43	6.1		wnw.			6		10		wnw.	2 h'r	2 h'r	mod.	wnw.	raining.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	30.52?	775.2?	48	8.9	85	n.			2		2		calm	0	0			clear.
S. Gatherer, N. 45° 50′, W. 25° —′*	30.60	777.2	65	18.3	84	s.			1		fg.		s.	0	0	sm'h	wsw.	foggy.
Bg. George, N. 26° 48′, W. 69° 55′ *†	30.19	766.8	80	26.7		ne.			4		8		ne.	0	0	short	n.	fair.
Bk. Galeon, N. 22° 12′, W. 42° 10′ †	30.15	765.8	81	27.2		e.			2		1			light	light	long	ene.	blue sky.
Bk. Hattie G. McFarland, New York, N. Y.†	30.40	772.1	41	5.0		ne.			2		4		ne.	0	0			fine.
S. Hedwig, N. 20° 27′, W. 44° 42′	30.14	765.6	80.8	27.1	79	e.			4		4		e.	0	0	3	ene.	fine.
Schr. Isabel Alberto, Cedar Keys, Fla †	30.18	766.6				ene.			1		2		se.	0	0			clear.
Bk. Ibis, N. 34° 30′, W. 75° 00′*	30.24	768.1	71	21.7		ese.			6		10		se.	4 h'r	4 h'r	r'gh	ne.	cloudy.
Bk. John H. Pearson, N. 36° 25′, W. 4° 10′*†	30.04	763.0				wnw.			1				nw.	0	0	sm'h	sw.	clear.
Schr. Jas. Slater, N. 25° 25′, W. 61° 42′						w.			2		0			0	0	mod.	se.	
Bg. Josefa, N. 45° 55′, W. 56° 28′ †	29.97	761.2				wnw.			7		6		wnw.	8 h'r	8 h'r	r'gh	wnw.	hailing.
Bkt. Kryolith, N. 40° 28′, W. 66° 40′						nnw.			3		10		n.	sh'rs	sh'rs	mod.	nw.	cloudy.
Bk. Lady Hincks, N. 29° 32′, W. 57° 36′ *†	30.10	764.5									7		var.	4 h'r	4 h'r	high	n.	drizzling.
Bg. Lillian, N. 18° 3′, W. 61° 10′†	30.04	763.0	86	30.0		ese.			2		3		se.	0	0	mod.	ese.	fair.
Bg. L. & W. Armstrong, N. 36° 15′, W. 73° 20′ *†	30.26	768.6				ene.			4		0		ne.	1 h'r	1 h'r	mod.	ne.	overcast.
S. S. Madrid, Taganrog, Russia †	29.98	761.5	69	20.6	80	w.			1		4		w.	0	0			fair.
Bk. Matthias, N. 38° 59′, W. 58° 28′*†	30.06	763.5	61	16.1		nnw.			6		5		nnw.	½h'r	½h'r	3-4	nw.	squally.
Schr. Norena, N. 42° 30′, W. 69° 40′						nnw.			3		0			0	0	sm'h		fine.
Bk. National Eagle, N. 40° 46′, E 18° 52′						sse.			6		8		s.	10 h'r	10 h'r	r'gh	s.	threatening.
Bk. Orpheus, N. 39° 59′, W. 72° 44′	30.43	772.9	56	13.3		ne.			2	0s	0			0	0	sm'h		fair.
S. S. Radnorshire, N. 35° 49′, W. 6° 14′ *†	30.08	764.0				nnw.			2		0			0	0	h'vy		hazy.
Schr. Rollin Sanford, Milton, Fla.†	30.20	767.1				n.			1		0			0	0			foggy.
Bg. Rising Sun, N. 27° 17′, W. 57° 54′ †	30 12	765.0	81	27.2		sw.			5		5		sw.	light	light	long	sse.	squally.
Bk. Rosalie, N. 17° 58′, W. 25° 02′*†	30.12	765 0				ne.			3		4		e.	0	0	light	ne.	hazy.
Bk. Saga, N. 58° 00′, E. 10° 26′*†	30.05	763.2	48	8.9		ne.			2–4		3		nne.	0	0	sm'h		clear
S. Salisbury, N. 42° 00′, W. 37° 09′	30.34	770.6	70.2	21.2	93	sse.			7.8		4 k		sse	0	0	cross	var.	fair.
Bgt. Sunlight, N. 37° 05′, W. 74° 21′						e.			4		10		e.	0	0	mod.	nne.	cloudy
Bk. Samuel B. Hale, N. 34° 35′, W. 40° 38′						se.			7				se.	0	0	short	se.	clear.
Bk. Sunbeam, N. 44° 54′, W. 39° 31′ †	30.19	766.8	70	21.1	90	s.			8		2		s.	4 h'r	4 h'r	h'vy	s.	clear.
Bk. Scud, N. 21° 30′, W. 57° 47′*†	30.10	764.5	86	30.0		se.			2		2		se.	½h'r	½h'r	sm'h		fine.
S. St. Francis, N. 36° 00′, W. 61° 59′			64	17.8		nnw.			6		4		nw.	0	0	mod.	n.	d. clouds.
Bk. St. Lawrence, N. 7° 05′, W. 57° 45′						ene.			6				ene.			sm'h		fine.
S. S. Tower Hill, off Staten Island, N. Y.						ne			4		10							foggy.
Schr. Viola Reppard, Chesapeake Bay			66	18.9		e.			4		10		e.					cloudy.
Schr. Walter L. Plummer, N. 24° 54′, W. 24° 35′ *†	30.22	767.6				ene.			3		1		ne.			sm'h	ne.	clear.
Bk. Childwall, N. 1° 43′, W. 24° 00′*	29.97	761.2	79	26.1		sse.			4		5		sse.	0	0	light	sse.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 14° 31′, W. 38° 12′	30.08	764.0	77	25.0	85	e.			2		1	e.				1	e.	blue sky
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.13	765.3	68	20.0	79	ese.			3		0							blue sky
H. M. S. Opal, S. 1° 52′, W. 6° 20′	30.04	763.0	78	25.6	82	ese.			4		6	ese.				3	ese.	d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	29.86	758.4	58.7	14.8	94	ne.			1		9							d. clouds.
H. M. S. Tyne, S. 13° 37′, W. 8° 30′	30.22	767.6	67	19.4	79	se.			4		9					3	se.	overcast.
H. P.M.S. Rainha de Portugal, Landana, L. Guinea	30.01	762.2	77.0	25.0	80	s.			3		8		s.	0	0	2		overcast.
H. P. M. S. Bengo, S. 12° 33′, E. 13° 14′	29.98	761.6	72.5	22.5	91	nnw.			1		10			0	0	1		overcast.
U. S. S. Brooklyn, S. 37° 18′, W. 37° 14′*	30.20	767.1	60	15.6	76	wnw.	12	5.4			5		wnw.	0	0	long	wnw.	fair.
U. S. S. Nipsic, Montevideo, Uruguay *	29.87	758.7	63	17.2	94	nnw.			3		10					sm'h		
S. S. Peniers, S. 29° 02′, W. 48° 44′	30.02	762.5	68.5	20.3	94	nne.			6	0s	8 ks		sw.	0	0	3	se.	d. clouds.
S. S. Sirius, S. 16° 20′, W. 38° 25′	30.15	765.8				ene.			1		1			0	0	mod.	ene.	clear.
Bk. Aureola, S. 14° 15′, W. 35° 27′†	30.10	764.5	93	33.9		ene.			3		2		e.	0	0	mod.	ese.	clear.
S. David Crocket, S. 53° 38′, W. 57° 10′ *	28.82	732.0	44	6.7	92	nw.			9		10		nw.	0	0	r'gh	nw.	gloomy.
Bk. E. L. Pettingill, S. 38° 04′, W. 54° 50′*†	29.90	759.4	60	15.6		n.			2		10		nw.	12 h'r	12 h'r	sm'h		foggy.
Bk. Grey Eagle, S. 1° 53′, W 30° 05′*†	29.90	759.4				se.			4		2			0	0	short	sse.	clear.
Bg. John Wesley, Natal, Brazil*†	29.99	761.7	80	26.7		ese.			3		4		ese.	0	0			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.02	762.5				calm			0				w.	3 h'r	3 h'r			raining.
S. S. Mendoza, S. 26° 50′, W. 41° 40′†	30.10	764.5				ene.			3		8		ene.	0	0	long	s.	
Bk. Mohican, S. 35° 24′, W. 16° 40′	29.98	761.5	62	16.7		ssw.			7		6		sw.	3 h'r	3 h'r	long	sw.	fair.
Bk. Pilgrim, S. 17° 13′, W. 6° 55′*†	30.25	768.3				ese.			4		3		ese.	0	0	mod.	ese.	clear.
Bgt. Willie, S. 32° 50′, W. 49° 45′*†	29.98	761.5	72	22.2		nne.			6		10		nne.	light	light	r'gh	ne.	cloudy.
Bk. Achille F. S. 23° 30′, W. 38° —′†	30.17	766.3	74	23.3		ne.			2		7		n.	1 h'r	1 h'r	light	ssw.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.77	756.1	68	20.0	90	n			2		8	ne.						overcast.
H. M. S. Champion, Singapore, Malay Peninsula	29.89	759.2	82	27.8	91	calm			0		4							d. clouds.
H. M. S. Flying Fish, N. 36° 40′, E. 125° 57′	30.02	762.5	67	19.4	73	n.			3		0					2	n.	blue sky.
H. M. S. Magpie, N. 0° 32′, E. 107° 46′	29.89	759.2	82.9	28.3	79	s.			2		9					2	sse.	misty.
H. M. S. Zephyr, N. 28° 34′, E. 121° 20′			74	23.3		nne.			6		4	n.				4	nw.	d. clouds.
H. P. M. S. Tamega, Canton, China	29.92	760.0	80.6	27.0	80	calm			0		2			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.93?	760.2?	65	18.3	89	nne.			6		10		nne.	0.00	1.5			gloomy.
U. S. S. Essex, Nagasaki, Japan	29.87	758.7	69	20.6	85	n.			2		2							clear
U. S. S. Hartford, Corinto, Nicaragua*	29.87	758.7	83	28.3	83	n.			3		5			light	light			fair.
U. S. S. Juniata, Canton, China	29.93	760.2	79	26.1	100	calm			0		2		calm	0	0			fair.
U. S. S. Monocacy, Ross Island, Corea	30.00	762.0	77	25.0	95	wnw.			2		2		calm					fair.
U. S. S. Pensacola, N. 32° 39′, E 140° 58′ *	29.41	747.0	75	23.9	86	n.			0		2		nne.	h'vy	h'vy	h'vy	n.	clear.
U. S. S. Ranger, Mare Island, Cal	30.06	763.5	55	12.8	74	sw.			1		5							fair.
U. S. S. Richmond, Yokohama, Japan	29.82	757.4	67	19.4	95	n.			4		10		n.	1.10	27.9			cloudy.
S. S. Oceanic, N. 39° 36′, W. 160° 05′	30.28	769.1	64	17.8	100	se.			4–5		8		se.	12 h'r	12 h'r	4	se.	thnd'r storm.
S. S. City of Chester, Eureka, Cal †	30.12	765.0	46	7.8	100	calm			0									overcast.
S. S. Ancon, Point Buchon, Cal.†	30.08	764.0	58	14.4	82	nw.			4		0			0	0	mod.	nw.	clear.
S. S. Dakota, Tacoma, Wash. Ter.†	30.08	764.0	54	12.2	80	calm			0		0			0	0	sm'h		foggy.
S. S. Orizaba, N. 37° 12′, W. (119° 40′)?*†	30.00	762.0	56	13.3	81	var.			8		10		sw.	0	0	h'vy	sw.	cloudy.
S. S. Victoria, off Cape Mendocino, Cal.†	30.08	764.0	51	10.6	86	ene.			2		2		ese.			mod.	wsw.	fair.
S. S. City of Pekin, Hong Kong, China†	29.97	761.2	78	25.6	73	e.			2		5		e.	0	0			fair.
S. S. City of Tokio, N. 34° 40′, E. 150° 22′			76	24.4	86	nnw.			6		9		nnw.	2 h'r	2 h'r	h'vy	var.	squally.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S.S. City of Rio de Janeiro, N. 38° 34′, W. 160° 29′†	30.23	767.8	68	20.0	90	sse.			5		8		se.	0	0	large	se.	squally.
S. S. Colima, N. 22° 15′, W. 109° 35′†	30.05	763.3	79	26.1	82	ne.			2		3		calm	0	0	small	w.	clear.
S. S. Granada, San Jose, Gautemala†	29.95	760.7	76	24.4	91	calm			0		0			2 h'r	2 h'r	light		clear.
S. S. San Blas, Panama, Panama†	29.93	760.2	79	26.1		nw.			3		6		nw.	0	0			fair.
S. E. B. Sutton, N. 8° 50′, W. 118° 00′*†	29.96	761.0	79	26.1	95	sse.			1		3			1 h'r	1 h'r	long	var.	clear.
S. S. Strathleven, N. 30° 35′, E. 122° 40′	29.99	761.7	69.8	21.0	70	nne.			3		2		nne.	0	0	2	nne.	blue sky.
S. Storm King. N. 6° 00′, W. 114° 54′*†	29.95	761.0				s.			1		9		s.	1 h'r	1 h'r	sm'h	var.	cloudy.
U. S. S. Palos, Canton, China	29.84	757.9	80	26.7	62	calm			0		0							clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.94	760.5	81.3	27.4	87	calm			0		5					sm'h		misty.
H. M. S. Mutine, Callao, Peru	30.07	763.8	62	16.7		s.			1		10							overcast.
H. M. S. Nelson, Sydney, N. S. W.	29.85	758.2	52	11.1	67	calm			0		0							blue sky.
U. S. S. Iroquois, Callao, Peru	30.10	764.5	61	16.1	88	ssw.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.07	763.8	58	14.4	88	calm			0		2		s.					clear.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	61	16.1	94	s.			2		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, Caldera, Chili*	30.13	765.3	54	12.2	93	calm			0		10		calm			sm'h		overcast
S. S. Australia, Sydney, N. S. W*†	29.94	760.5	58	14.4	94	wsw.			5		4		w.	4 h'r	4 h'r			fine.
S. S City of New York, S. 0° 20′, W. 165° 42′†	29.93	760.2	79	26.1	95	se.			2		0			0	0	sm'h		clear.
S. S. City of Sydney, S. 34° 14′, E. 164° 10′*†	30.14	765.5	61	16.1	77	ne.			4		2 k		ne.			light	ne.	clear.
Bk Godeffroy, S. 45° 25′, W. 78° 48′	29.50	749.3	47.7	8.7	92	w			5–6		10			10 h'r	10h'r	mod.	var.	rainy.
S. Sovereign of the Seas, S. 15° 30′, W. 93° 00′*†	30.20	767.1	68	20.0	84	se			1		9			0	0	h'vy	s.	cloudy.
S. Armenia, S. 14° 20′, W 124° 30′*	29.93	760.2	77	25.0	82	e.			4		5?		e.	½ h'r	½ h'r	r'gh	se.	cloudy?
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9		se.			4							mod.	se.	dense fog.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.03	762.7	80	26.7	78	sse.			3		5	sse.						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.09	764.3	78	25.6	91	sse.			4		3	sse.				3	sse.	blue sky.
H. M S. Woodlark, Shat el Arab River, Turkey	29.93	760.2	94.5	34.7	44	calm			0		1	calm						blue sky.
Bk. Bore, S. 29° 41′ E. 36° 22′*†	29.93	760.2	78	25.6		nne.			3		2		e.	0	0	sm'h	e.	clear
S. Frank N. Thayer, S. 25° 14′, E. 52° 27′*†	30.34	770.6	66	18.9	64	sse.			4		1		sse.	0	0	long	s.	blue sky
Bk. Great Surgeon, S. 39° 33′. E. 48° 08′*†	30.12	765.0	60	15.6		w.			4		8		w.	5 h'r	5 h'r	cross	var.	cloudy.
S. S. Galatia, Calcutta, India †	29.75	755.6	88	31.1	76	wsw.			2		0			0	0			clear.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY.

By Order of the Secretary of War.

W. B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 7, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			29.99	761.7	70.9	21.6	80	n.			6		3			0	0	pretty fair	Roziere.
Algiers			30.02	762.4	72.7	22.6	50	nne.			3		0			0	0	clear	Thève.
La Calle			30.01	762.2	77.0	25.0	40	sw.			3		3			0	0	pretty fair	Fonfrède.
Tunis			30.01	762.3	73.4	23.0	44	sw.			3		2			0	0	fair	Delord.
Saida			30.04	763.0															Pérès.
Tebessa			30.09	764.2	65.1	18.4	59	s.			2		3			0	0	pretty fair	St. Martin.
Geriville					66.2	19.0	16	s.			5		0			0	0	clear	Forfert.
Laghouat			30.06	763.5	71.2	21.8	27	n.			2		2			0	0	fair	Abraham.
Biskra			30.06	763.4	75.6	24.2	42	e.			3		1			0	0	very fair	Gonzon.
AUSTRALIAN.																			
Adelaide, South Australia			30.26	768.6	50.1	10.1	79	ssw.	3	1.3			0			0.187	4.8	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.05	763.3	30.14	765.5	50.8	10.4	87	s.	1	0.4			10			0.01	0.3	showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.71	754.6	30.26	768.6	56.8	13.8	36	ne.			2		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.50	749.4	30.29	769.4	43.9	6.6	65	nw.	3.1	1.4			10			0.043	1.1		Dr. Wierzbiski
Eperies	29.34	745.2	30.24	768.0	46.8	8.2	54	n.			2		9 ks		s.	0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.68	728.4	30.13	765.3	50.4	10.2	70	nw.			5		10			0.059	1.5		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.98	736 2	30.37	771.4	43.0	6.1	86	calm			0		10			0	0	cloudy	The Staff.
Lemberg	29.21	742.0	30.23	767.9	41.2	5.1	63	ne.			3		10			inap.	inap.		Dr. T. Stanecki.
Pola	30.13	765.3	30.24	768.1	60.4	15.8	51	e.			4		6			0	0		I. R. Hydrographic Office.
Szathmar	29.69	754.1	30.16	766.0	52.0	11.1	44	n.			4		4			0	0		Joseph Midlinsky, S. J
Szegedin					50.5	10.3	61	n.			2		7			0	0		Karl St[illegible]cel.
Trieste	30.17	766.4	30.27	768.9	60.4	15.8	35	ne.			1		0			0	0		Royal Academy.
Vienna	29.62	752.4	30.35	771.0	48.6	9.2	63	nw.			3		8			0.083	2.1		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.07	763.8	30.17	766.3	69.1	20.6	58	w.	25	11.2			3			0	0	squally	W. Boswell.
Armagh, Observatory	30.21	767.3	30.44	773.2	56.0	13.3	94	sw.	6	2.7			10					misty	S. Call.
Bidston, Liverpool Obs'y			30.42	772.7	54.8	12.7	81	w.	25	11.2			10					overcast	John Hartnup.
Bolton, Sharples	29.86	758.4	30.40	772.1	53.3	11.8	90	nne.	1	0.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough & Preston.
Cardington	30.34	770.6	30.45	773.4	54.4	12.4	74	nw.			0.6		9					overcast	John McLaren.
Chatham, School M. E.	30.27	768.8	30.45	773.4	52.1	11.2	77	n.			1		10					misty	Corpl. [illegible] A. Pickles, R.E.
Falmouth, Observatory	30.31	769.9	30.54	775.7	56.2	13.4	69	nnw.			1		3					blue sky	The Staff.
Fort Napier, Natal	27.74	704.6	29.97	761.2	91.2	32.9	62	calm			0							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	83.0	28.3	87	n.			4		5					raining	J. W. Smith.
Galway, Queen's College	30.37	771.4	30.40	772.1	56	13.3	94	sw.			1		9			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98?	761.5?	30.03?	762.7?	66.8	19.3	92	e.			4		8					gloomy	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.04	763.0	30.24	768.1	59.6	15.3	88	sw.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.27	768.8	30.45	773.4	50.9	10.5	81	wsw.			1		10					drizzling	The Staff.
Guernsey	30.21	767.3	30.52	775.2	57.5	14.2	67	nne.			1		6					d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.42	772.7	30.46	773.7	52.4	11.3	72	wnw.	5	2.2			9					misty	The Staff.
Leicester, Museum	30.18	766.6	30.43	772 9	54.5	12.5	74	nw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.03	762.7	30.11	764.8	72.6	22.6	54	nw.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.11	764.8	83.5	28.6	70	ne.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.92	760.0	30.45	773.4	53.2	11.8	90	w.			2		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.23	767.8	30.46	773.7	53.0	11.7	73	sw.			2		6					d. clouds	The Staff.
Plymouth	30.44	773.2	30.51	771.9	57.3	14.1	73	nne.			1		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.00	762.0	30.10	764.5	53.2	11.8	98						10					drizzling	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.94	760.5	30.00	762.0	73.0	22.8	57	ne.			3		4					d. clouds	W. H. Lyne.
Sheffield	30.07	763.8	30.36	771.1	57.9	14.4	88	calm			0		9			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.34	770.6	30.37	771 4	57.2	14.0	86	w.			3		10			0	0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.42	772.7	53.6	12.0	87	wsw.	8	3.6			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					55.6	13.1	72	nw.			0.5		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.47	773.9	30.54	775.7	62	16.7	66	ne.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.52	775.2	30.54	775.7	57.4	14.1	92	sw.	10	4.5			7					misty	The Met'g'l Office
Sub-series.																			
Gozo, Episcopal Seminary	29.77	756.1	30.16	766.1	69.8	21.0	63	e.	2.5	1.1		9 ck	0	w.		0	0	cloudy	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B.	30.16	766.1	30.20	767.1	39.0	3.9		calm	0	0		1 c	0	nw.		0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.16	766.1	30.21	767.3	40	4.4	75	w.	5	2.2		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.19	766.8	30.26	768.6	33	0.6	85	sw.	2	0.9		2 c	2 k	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	30.12	765.0	30.31	769.9	26.0	− 3.3	100	nw.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.17	766.3	30.22	767.6	38.5	3.6		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.23	767.8	30.25	768.3	40	4.4	86	w.	18	8.0		0	5 k		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.09	738 9	29.92	760.0	45	7.2	96	e.	9	4.0			10 n			0	0	cloudy	James Stewart.
Fredericton, N. B.	30.24	768.1	30.30	769.6	34.0	1.1	78	nw.	4	1.8			10 n			0.430	10.9	raining	Prof. Thos. Harrison
Grand Manan, N. B.	30.25	768.3	30.31	769.9	45	7.2	63	n.	4	1.8		0	0			0	0	light haze	J. Chipman Seeley
Granton, Ontario	29.18	741.2	30.34	770.6	32.1	0.1	97	calm	0	0		0	0			0	0	foggy	Jas. Grant.
Halifax, N. S*	30.14	765.5	30.27	768.8	37	2.8	89	w.	1	0.4		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.90	759.4	30.29	769.4	42.2	5.7	89	ne.			1	5 ck	0	nw.		0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.98	761.5	30.32	770.1	42	5.6	80	ne.	2	0.9		10 k		n.		0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.17	766.3	30.21	767.3	48.2	9.0	63	w.			4								C. H. Rigby.
London, Ontario	29.39	746.5	30.33	770.4	34.8	1.6	90	calm			0	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.73	704.3	30.01	762.2	43	6.1	76												John Ewart.
Minnedosa, N. W. T	29.96	761.0	29.85	758.2	44	6.7	89	e.	18	8.0		0	8 ks		sw.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.12	765.0	30.34	770.6	37	2.8	89	w.	5	2.2		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.12	765.0	30.35	770.9	23.2	− 4.9	98	s.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.61	752.1	30.33	770.4	41	5.0	82	ne.	9	4.0		5 k	5 ks	sw.	sw.	inap.	inap.	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.61	752.1	30.37	771.4	40.7	4.8	90	calm			0	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.54	750.3	30.25	768.3	48	8.9	93	calm	0	0			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.58	751.3	30.30	769.6	40	4.4	100	n.	5	2.2		8 c	0	w.		0.01	0.3	fair	[illegible] Morgan
Port Stanley, Ontario	29.63	752.6	30.30	769.6	37	2.8	96	n.	5	2.2		0	0			0.01	0.3	clear	M. Payne.
Qu Appelle, N. W. T	27.66	702.6	29.96	761.0	38	3.3	96	calm	0	0		0	8 s		sw.	0	0	foggy	Leslie Gordon.
Quebec, Quebec*	29.94	760.5	30.31	769.9	36	2.2	92	s.	8	3.6		0	0			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	20.88	758.9	30.37	771.4	28	− 2.2	77	se.	1	0.4			fg			0	0	dense fog	[illegible]
St. Andrews, N. B.	30.23	767.8	30.28	769.1	37	2.8	71	nw.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.14	765.5	30.28	769.1	38.9	3.8	70	nw.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	29.88	758.9	30.14	765.5	38	3.3	90	nw.			1	0	1 ks			0	0	clear	J. Higgins.
St. Pierre, N. F.			30.00	762.0	41	5.0		n.			1								The Commandant.
Saugeen, Ontario*	29.57	751.1	30.32	770.1	32	0.0	92	calm	0	0		0	0			0	0	clear	
Stratford, Ontario	29.00	736.6	30.34	770.6	34.3	1.3	96	calm	0	0		0	0			0.038	1.0	blue sky	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
S. W. Point, Anticosti	30.07	763.8	30.10	764.5	36	2.2	89	w.			2	2 ck	5 s	nw.	nw.	0	0	fair	Miss Grace Pope.
Sydney, C. B.	30.12	765.0	30.18	766.6	42	5.6	76	w.	4	1.8		0	0			0	0	clear	A. C. Hill, C. E.
Toronto, Ontario*	29.91	759.7	30.31	769.9	44	6.7	80	ne.	5	2.2			10 ks		se.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.26	743.2	30.36	771.1	37.5	3.1	93	n.	3	1.3		0	9 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.22	767.6	30.29	769.4	44	6.7	83	ne.	2	0.9		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House.	30.00	762.0	30.03	762.7	65.0	18.3	89	sw.	11.6	5.2		0	8 s			0	0	cloudy	I. Garfelt.
Springbok Fontein	27.87	707.9			79	26.1	47									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.93	760.3	30.01	762.3	57.2	14.0	89	e.			1	0	0					clear	Samuel Redolez.
Iquique	29.96	761.0	29.99	761.7	63.3	17.4	75	sw.			3							cloudy	Rafael Moreno.
Niebla	29.63	752.5	29.73	755.2	49.6	9.8	89	n.			2	0	7		n.	0.024	0.6	drizzling	Federico Köhling.
Punta Caldera	29.89	759.1	29.97	761.3	55.4	13.0	82	sw.			1		10 n		sw.			cloudy	Manuel Tobar.
Punta Corona	29.85	758.2	30.04	763.0				sw.			3	8 ck	0	sw.		0	0	cloudy	Francisco Alvarado.
Valparaiso	29.92	760.0	30.06	763.6	59.9	15.5	84	sw.			2	6	0					fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.24	641.0																	A. Guelny.
Zi-Ka-Wei, near Shanghai.	29.98	761.4	30.00	762.1	62.4	16.9	87	n.	3.8	1.7		2 ck	0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.22	767.5	30.26	768.7	47.3	8.5	69	sw.	16	7			9						Oversergent Fischer.
Fanoe	30.24	768.0	30.26	768.5	50.2	10.1	79	sw.			4		10					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.53	750.1	29.58	751.2	32.4	0.2	74	se.			2		9						S. Kleinschmidt.
Jacobshavn, Greenland	29.64	752.9	29.69	754.1	23.0	— 5.0		e.			6		6					snowing	
Stykkisholm, Iceland	29.47	748.4	29.51	749.5	45.3	7.4	76	w.			4		8						A. O. Thorlacius.
Thorshavn	29.79	756.6	29.81	757.2	52.5	11.4	98	w.	27	12			10					raining	Overloerer Bergh.
Vestervig	30.04	763.1	30.13	765.4	48.6	9.2	96	ssw.			4		10						Loerer Oesterhol.
Egyptian.																			
Cairo	29.86	758.4			90.0	32.2		ne.	5.4	2.4			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.68	753.8	30.33	770.4	57.2	14	90	nne.			2		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.90	759.5	30.45	773.5	54.5	12.5	81	s.			1		5		n.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	30.13	765.2	30.21	767.2	55.4	13	55	nnw.			4				nnw.	0	0		M. Giraud, Director.
Bar-sur-Seine	29.85	758.2	30.42	772.7	52.2	11.2	50	ne.			2		0			0.012	0.3	clear	M. Saillard, Director.
Beauvais, Normal School	30.20	767.0	30.47	773.9	55.6	13.1	75	nw.			1		8		nnw.	0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.43	747.4	30.34	770.5	42.8	6	82	ne.			3		5		nnw.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	30.08	764.1	30.35	770.8	53.4	11.9	66	ne.			1		8			0.134	3.4	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.83	757.6	30.39	771.9	50.0	10	86	ne.			6		k		ne.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.27	768.8	30.51	775.0	58.6	14.8	70	ne.			2		3		ne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.36	771.2	30.44	773.1	58.6	14.8	63	ne.			1				n.	0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	30.06	763.4	30.36	771.7	53.4	11.9	67	calm			0		5		ne.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.89	759.1	30.40	772.2	57.9	14.4	50	nne.			1		2			0	0	¼ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.97	735.9	30.36	771.2	47.8	8.8	71	nw.			2		8		nne.	0.008	0.2		M. Alluard, Director.
Cluny, Normal School	29.48	748.9	30.35	770.9	52.0	11.1	63	ne.			3				ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.57	751.0	30.44	773.2	51.4	10.8	65	e.			1	2 c		e.	e.	0.028	0.7	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.76?	705.2?	30.39?	771.5?	41.0	5	74	calm			0		1 n	nw.		0	0		M. Jarach, Director.
Gréasque, du Rhone	28.87	733.4	29.98	761.5	63.5	17.5	50	w.			1		7		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.51	749.5	30.29	769.4	49.6	9.8	73	nnw.			1		n		se.	0	0		M. Ablard, Director.
Guéret, Normal School	28.76	730.5	30.37	771.4	46.4	8	81	ne.			4		2 s		ene.	0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	30.08	764.1	30.36	771.1	57.2	14	67	nne.			2		5		nne.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.67	753.6	30.24	768.1	53.4	11.9	67	ne.			1		8			0.236	6.0	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.40	772.2	30.50	774.8	63.0	17.2	65	ne.			1		5		ne.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.23	742.5	30.32	770.0	47.7	8.7	80	n.			1		8	ne.	n.	0	0	very cloudy	M. Andre, Director
Mans, Normal School	30.18	766.6	30.50	774.6	54.0	12.2	54	ne.			1		2		ne.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.87	758.6	30.14	765.5	60.3	15.7	49	w.			2		4		nw.	inap.	inap.		M. Stephan, Director.
Montlouis	24.94	633.4	29.78	756.4	46.0	7.8	51	nw.	13.0	5.8			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.05	763.2	30.16	766.0	64.0	17.8	56	nnw.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.65	753.1	30.45	773.5	47.5	8.6	61	nw.			1	ck		e.		0	0		M. Hasse, Director.
Nantes, Observatory	30.34	770.6	30.50	774.6	58.1	14.5	47	nne.			1	2 c; ck				0.039	1.0		M. Larocque, Director.
Perpignan, Observatory	30.10	764.5	30.21	767.3	63.1	17.3	38	nw.	13.0	5.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.0			25.5	— 3.6							1		e.	0	0	clear	M. Vausseanat, Director.
Privas, Normal School	29.17	741.0	30.16	766.0	51.8	11	52	n.			1		5		n.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.33	643.4			31.5	— 0.3	100	ne.			4		10			0.059	1.5	foggy	M. Alluard.
Rochefort, Naval Obs'y	30.36	771.2	30.39	772.0	54.7	12.6	66	ne.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.19	766.8	30.41	772.4	54.7	12.6	57	ne.			2		2		ne.	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	28.06	712.6	30.21	767.3	50.9	10.5	74	se.			1		1		s.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.43	772.8	30.47	774.0	58.3	14.6	74	nne.			1		2	nne.		0	0	slightly cl'dy	M. Mouillot, Dir.
St Lô	30.34	770.6	30.48	774.3	57.2	14	59	ne.			1		5		ne.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.30	769.5	30.46	773.7	55.2	12.9	58	n.			1		6	ne.	nne.	0	0	cloudy	M. Renou, Director.
Toulouse, Observatory	29.61	752.0	30.34	770.5	58.6	14.8	63	nw.			2		5	nw.		0	0	cloudy	M. Baillard, Director.
Tours	30.26	768.5	30.43	773.0	56.8	13.8	50	n.			1		1	ne.	ne	0	0	clear	M. de Tastes.
Versailles, Observatory	29.96	761.0	30.45	773.5	52.9	11.6	57	ne.			1		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.22	767.5	30.37	771.3	56.7	13.7	82	n.	2.0	0.9		6 c		n.		0.106	2.7		M. Cartier, Director.
German.																			
Ansbach	28.92	734.6	30.42	772.6	44.1	6.7	42	ne.			2		1	ne.		0.047	1.2		Prof. Jnedt.
Bamberg	29.54	750.2	30.39	771.9	45.1	7.3	60	n.			1		5 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.23	767.9	30.38	771.7	49.3	9.6	52	w.			1		2			0	0		Dr. Lensch.
Breslau	29.82	757.4	30.35	771.0	45.7	7.6	55	nw.			1		8			0.114	2.9		Royal University Obs'y.
Carlsruhe	29.98	761.4	30.45	773.5	47.1	8.4	50	ene.			1		9	ne.		0	0		Albert Senz.
Cassel	29.67	753.7	30.39	771.8	47.1	8.4	67	s.			2		8	w.		0.008	0.2		Dr. H. Möhl.
Frankfort-on-the-Main	30.05	763.2	30.42	772.7	47.8	8.8	55	ssw.			1		8			0	0		Physical Society.
Friedrichshafen	28.93	734.8	30.39	771.9	46.0	7.8	68	ne.			3		5	n.		0	0		Wilhelm, Chief Tel.
Hamburg	30.27	768.8	30.36	771.1	48.6	9.2	86	sw.			3		9			0.024	0.6		E. Preller.
Kiel	30.29	769.3	30.30	769.7	49.5	9.7	71	sw.			2		10			0.063	1.6		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.97	761.2	30.41	772.3	45.3	7.4	50	nw.			3		3	w.		0	0		H. Leppig, Asst.
Magdeburg	30.19	766.7	30.39	771.9	48.9	9.4	57	sw.			1		2	sw.		0	0		Weather Observatory.
Memel	30.24	768.0	30.28	769.2	43.7	6.5	68	wnw.			3		10 ks						Issermann.
Munich	28.59	723.8	30.38	771.7	43.0	6.1	71	n.			1		10	ne.		0.535	13.6		Central Station.
Neufahrwasser	30.28	769.0	30.29	769.4	45.5	7.5	72	nw.			1		6			0.209	5.3		A. Lothes.
Neustadt, Palatinate	29.86	758.5	30.39	772.0	47.3	8.5	55	nw.			1		8			0	0		Dicknether.
Stuttgart	29.42	747.3	30.34	770.7	46.4	8.0	59	n.			1		2	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.29	769.3	30.31	769.8	48.4	9.1	79	sw.			3		5 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.71	754.7	30.09	764.2	78.1	25.6		sw.			1.0		1			0	0	smoky	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.71	754.6	29.76	755.9	82.8	28.2	75	ssw.	19.0	8.5			0			0	0	blue sky	
Deesa	29.27	743.5	29.74	755.4	84.5	29.2	54	n.	3.0	1.3			5	n.		0	0	d. clouds	
Bombay	29.75	755.6	29.79	756.6	83.5	28.6	77	nw.	11.0	4.9			5	nw.		0	0	d. clouds	
Poona, Yarrowda	27.98	710.6	29.84	757.9	73.3	22.9	89	ne.	7.0	3.1			9			0	0	d. clouds	
Trichinopoly	29.54	750.3	29.82	757.4	86.8	30.4	62	calm	0	0			10			0	0	overcast	
Bellary	28.30	718.7	29.75	755.7	82.5	28.1	59	sw.	10.0	4.5			8			0	0	gloomy	
Belgaum	27.30	693.3	29.85	758.3	71.8	22.1	93	w.	4.0	1.8			10	w.		0.03	0.8	d. clouds	
Lahore	28.98	736.2	29.72	754.8	84.5	29.2	47	calm	0	0			0			0	0	blue sky	
Roorkee	28.81	731.7	29.69	754.2	84.8	29.3	44	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.17	741.0	29.72	755.0	92.8	33.8	25	w.					1		w.	0	0	d. clouds	
Nagpur	28.72	729.4	29.75	755.6	85.2	29.6	56	ne.	8.0	2.2			8		n.	0	0	d. clouds	
Jubbulpore	28.43	722.1	29.80	756.9	74.0	23.3	86	w.	8.0	3.6			10		nw.	0	0	gloomy	
Lucknow	29.33	744.9	29.70	754.4	85.1	29.5	37	calm	0	0			0			0	0	blue sky	
Allahabad	29.41	747.1	29.72	755.0	81.1	27.3	63	calm	0	0			1			0	0	d. clouds	
Patna	29.53	750.0	29.71	754.7	84.6	29.2	59	wnw.	1.5	0.7			4	wnw.	wnw.	0	0	d. clouds	
Hazaribagh	27.75	704.7	29.74	755.4	81.0	27.2	48	nw.	7.2	3.2			0			0	0	blue sky	
Cuttack	29.67	753.6	29.75	755.7	86.4	30.2	66	calm	0	0			5			0	0	d. clouds	
Calcutta, Alipore	29.70	754.3	29.72	754.9	84.0	28.9	78	ssw.	3.5	1.6			5	sw.	w.	0	0	d. clouds	
Dhubri	29.61	752.1	29.73	755.0	81.6	27.6	74	calm	0	0			0			0	0	blue sky	
Chittagong	29.65	753.0	29.74	755.3	83.7	28.7	83	nw.	1.4	0.6			6			0	0	d. clouds	
Sibsagar	29.42	747.3	29.76	755.8	81.4	27.4	84	se.	2.0	0.9			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.32	719.4	29.73	755.2	90.9	32.7	27	nw.	2.2	1.0			2		nw.	0	0	d. clouds	
Zanzibar	30.05	763.3			84.9	29.4	54	ese.	4.5	2.0			5			0	0	d. clouds	
ITALIAN.																			
Udine	29.85	758.1	30.25	768.4	58.6	14.8	45	e.	0.7	0.3			4			0	0		Prof. Giovanni Clodig.
Milan	29.75	755.6	30.26	768.7	53.6	12.0	62	se.	9.8	4.4			9	sse.		0	0		Prof. G. V. Schiapparelli
Padua	30.16	766.0	30.27	768.8	52.5	11.4	86	nw.	0.7	0.3			6	sw.		0.106	2.7		Prof. Dott. Lorenzoni.
Moncalieri	29.32	744.8	30.23	767.8	54.5	12.5	60	n.	1.8	0.8			7	n.		0	0		Prof. F. F. Denza.
Genoa	30.00	762.1	30.20	767.0	55.9	13.3	60	ne.	3.1	1.4			10	ne.		0.083	2.1		Prof. G. M. Garibaldi.
Mondovi	28.23	717.1	30.15	765.8	53.4	11.9	63	wnw.			2		10			0	0		Prof. D. C. Bruno.
Pesaro	30.19	766.9	30.24	768.1	58.6	14.8	66	ne.	15.0	6.7			7	se.		0.661	16.8		Prof. Luigi Guidi.
Florence	29.91	759.8	30.17	766.2	59.9	15.5	58	ne.			2		3			0	0		Prof. Costantino Pittei
Leghorn	30.02	762.4	30.10	764.6	62.8	17.1	45	s.	3.8	1.7			3			0	0		Prof. P. Monte.
Rome	29.96	761.0	30.13	765.4	65.1	18.4	41	sw.	1.3	0.6			6			0	0		Prof. P. Tacchini.
Lecce	29.91	759.6	30.16	766.0	66.2	19.0	46	nne.	8.1	3.6			3			0	0		Prof. C. de Giorgi.
Cosenza	29.25	742.9	30.13	765.2	66.2	19.0	63	wnw.	3.1	1.4			3	nw.		0	0		Prof. D. Conti.
Cagliari	29.88	759.0	30.07	763.9	67.8	19.9	54	calm			0		10			0	0		Prof. A. Pacinotti.
Palermo	29.89	759.1	30.13	765.4	68.5	20.3	44	ne.	5.4	2.5			10			0	0		Prof. G. Caccintore.
Syracuse	30.05	763.2	30.09	764.3	69.3	20.7	56	wsw.	3.1	1.4			2	w.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R.	29.64	752.9	30.16	766.1	62.1	16.7	56	n.	0	0			9	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.04	763.0	30.07	763.9	59.8	15.4	96	calm			0	4c;cs	0	w.		0.028	0.7	fair	H. Hattori.
Awomori	30.08	764.0	30.11	764.8	61.1	16.2	78	ne.	3.6	1.6		0	1 ks			0	0	clear	K. Ogawa
Hamamatsu	29.88	758.9	29.98	761.4	66.8	19.3	82	e.			6		10 n			0.472	12.0	raining	Sekigawa & Yamazaki.
Kagoshima	29.56	750.9	29.58	751.2	66.0	18.9	78	e.			8		10 n			0.575	14.6	raining	G. Miyanohaza.
Kanazawa	29.91	759.7	30.02	762.4	64.5	18.1	91	ese.	2.6	1.2			10 n			1.126	28.6	raining	S. Endo.
Kioto	29.79	756.6	29.96	761.0	64.6	18.1	95	n.	2.1	0.9			10 n			1.929	49.0	raining	M. Tojima.
Kochi	29.82	757.5	29.85	758.0	65.1	18.4	84	s.	4.3	1.9			10 n			2.48	63.0	raining	K. Kusunose.
Minaaka	29.71	754.7	29.74	755.4	61.1	16.2	91	nnw.			2		10 n		e.	2.583	65.6	raining	K. Masusaki
Miyako	30.05	763.3	30.16	766.1	56.7	13.7	89	w.	5.0	2.2		0	0			0.020	0.5	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.48	748.8	29.68	753.9	69.8	21.0	56	ne.	15.0	6.7			10 s			0	0	overcast	S. Takehayashi.
Niigata	29.97	761.2	30.01	762.2	68.3	20.2	97	se.	11.6	5.2			10 s		w.	0	0	covered	Satoo & Tomikawa.
Nobiru	30.10	764.6	30.12	765.0	63.6	17.6	95	ene.	4.2	1.9			10ks;s			0	0	covered	Yoshino & Midzushina.
Numazu	30.01	762.2	30.04	763.0	66.8	19.3	74	ene.			4		10 n		e.	0.559	14.2	raining	R. Kaneda.
Osaka	29.94	760.5	29.96	760.9	65.0	18.3	98	ene.	11.1	4.9			10 n			1.805	45.8	light rain	H. Omura.
Sakai	29.94	760.6	29.95	760.8	67.8	19.9	83	e.			4		10 n		ene.	2.444	62.1	raining	Yamawchi & Sakamoto.
Shimonoseki	29.72	754.8	29.86	758.5	68.0	20.0	75	nw.			2		10s;ks		nw.	0.059	1.5	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.02	762.6	30.10	764.5	65.6	18.7	74	ne.	5.8	2.6			10 n			1.375	34.9	raining	The Staff.
Wakayama	29.86	758.4	29.91	759.7	65.1	18.4	92	n.	1.0	0.4			10 n			4.118	104.5	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	71.2	21.8	52	se.	17.5	7.8		0	7ks;k		e.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.43	620.5	30.17	766.3	54.0	12.2	89	wnw.	0.9	0.4		10 c	0			0	0	covered	Prof. M. Leal.
Mazatlan	29.71	754.5	29.96	761.0	78.0	25.6	86	nne.	0.9	0.4		1 cs	1 k	s.		0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.42	772.7	30.42	772.7	56.5	13.6		sw.			3					0.189	4.8		
Groningen	30.28	769.2	30.34	770.6	50.9	10.5		wsw.			1					0.055	1.4		
Helder	30.35	770.9	30.35	770.9	52.9	11.6		nw.			2					0.075	1.9		
Hellevoetsluis	30.41	772.3	30.41	772.3	57.4	14.1	79	calm			0					0.138	3.5		
Utrecht	30.35	770.9	30.40	772.1	54.9	12.7	76	nne.			1		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.2			79.9	26.6	79	nne.	0.5	0.2			9			0.157	4.0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.87	758.7	29.93	760.3	48.2	9.0	95	sse.	25	11			10			0.433	11.0	raining	
Brono	29.31	744.4	29.35	745.4	45.7	7.6	94	sw.			7		10					light rain	
Christiania	29.76	756.0	29.91	759.7	42.6	5.9	97	ssw.	9	4			10					raining	
Gjæsvær	29.22	742.3	29.25	742.9	27.1	— 2.7		s.			8		10					raining	
Lodingen	29.09	738.9	29.14	740.1	40.5	4.7	87	sse.			7		10			0.713	18.1		
PORTUGUESE.																			
Angra, Azores					68.4	20.2	83	ese.	11.2	5.0			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.99	761.8	30.08	764.0	71.2	21.8	55	sw.	2.5	1.1			6		n.	0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.60	753.3	29.99	761.8	61.7	16.5	35	ne.	13.7	6.1			2			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	70.5	21.4	63	ese.	4.9	2.2			4			0	0		
Saint Paul de Loando	29.78	756.5	29.98	761.6	74.7	23.7	95	w.	1.8	0.8			10			0	0		
San Salvador, Congo	28.10	713.8	29.92	760.0	81.7	27.6	63	nw.			2		8			0.079	2.0		
Serra da Estrella	25.30	642.6	30.11	764.9	40.6	4.8	64	e.	42.9	19.2			5			0.016	0.4		
RUSSIAN.																			
Akmolinski	29.10	739.0	30.19	766.9	45.3	7.4	61	w.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	29.48	748.9	29.50	749.4	31.3	— 0.4	78	n.	22	10		0	5 ks			0	0		Capt. Sseliwerstow
Ashurada	30.04	762.9	29.94	760.5	81.1	27.3	80	wnw.	9	4		0	0			0	0		
Astrakhan	29.93	760.2	29.86	758.4	75.7	24.3	59	ssw.	18	8		ck	4 s			0	0		Capt. Wisganow.
Baku	29.99	761.8	29.95	760.6	75.6	24.2	84	s.	22	10		0	0			0	0		
Barnaul	29.44	747.8	29.95	760.6	45.3	7.4	82	nw.	13	6			10			0.031	0.8		Meteorological Obs'y
Bielosersk	29.30	744.3	29.79	756.6	30.2	—1.0	82	w.	20	9		0	7 k			0.020	0.5		
Dorpat	29.89	759.2	30.14	765.6	36.0	2.2	53	nw.	7	3			9 k			0.134	3.4		Observatory.
Ekaterinburg	28.46	722.8	29.40	746.7	49.5	9.7	78	sse.	13	6			6			0.177	4.5		Meteorological Obs'y.
Elissawetgrad	29.61	752.1	30.07	763.8	44.2	6.8	71	nw.	16	7			10 n;s			0	0		
Irkutsk	28.24	717.2	29.85	758.2	54.0	12.2	51	calm			0		3			0	0		
Kasalinsk					67.3	19.6	47	s.	4	2		0	6 s						Observatory.
Kasan	29.18	741.2	29.45	748.1	46.0	7.8	65	wsw.	16	7			9 n			0	0		
Kem	29.73	755.1	29.78	756.4	29.8	— 1.2	63	nw	13	6		0	5 k			0	0		Lagorio & Sastyrea.
Kertch	29.92	760.0	29.95	760.6	69.3	20.7	62	wnw.	9	4		0	2 s			0	0		
Kieff	29.21?	742.0?	29.87?	758.6?	38.5	3.6	78	nw.	9	4			10 n			0.059	1.5		Observatory.
Koslov	29.19	741.4	29.70	754.4	38.3	3.5	85	nnw.	13	6			10 n			0.035	0.9	raining	
Liban	30.22	767.7	30.25	768.3	41.9	5.5	55	calm	0	0			10			0.028	0.7		E. Quaas.
Lugan	29.56	750.9	29.76	756.0	71.8	22.1	41	wsw.	34	15			4			0	0		Meteorological Obs'y.
Moscow	29.39	746.4	29.88	758.9	35.1	1.7	57	n.	7	3			9 ks			0.012	0.3		Meteorological Obs'y
Nikolaiev	30.01	762.2	30.08	764.0	55.6	13.1	74	nw.	22	10			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.78	756.4	29.87	758.6	49.3	9.6	80	calm	0	0		0	2 n						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mils. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.91	759.8	30.06	763.4	60.3	15.7	87	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.92	759.9	30.26	768.6	67.6	19.8	23	ne.	2.2	1.0		0	0			0	0		
Petrozavodsk	29.64	752.9	29.85	758.1	28.4	— 2.0	72	nw.	22	10		1 ck	0			0.118	3.0		Dr. Bergmann.
Pinsk	29.70	754.3	30.21	767.4	37.6	3.1	62	nw.	13	6			10 s			0.358	9.1		
Poti	29.89	759.2	29.92	760.0	82.9	28.3	59	s.	9	4			10 n			0	0		
St. Petersburg	30.01	762.3	30.04	762.9	32.7	0.4	43	nw.	11	5		0	6 k;ks			inap.	inap.		Central Physical Obs'y.
Samarkand	27.72	704.2	30.19	766.9	61.0	16.1	46	se.	18	8		0	0			0	0		
Semipalatinsk	29.42	747.2	30.09	764.2	45.9	7.7	91	nnw.	16	7			10			inap.	inap.		Major Lasarew
Sevastopol	29.82	757.3	30.02	762.6	69.1	20.6	64	nnw.	20	9		3 ck	0			0	0		
Staroi Bykhov	29.54	750.3	30.12	765.0	34.9	1.6	56	n.	9	4			10			0.126	3.2		
Tashkend Laboratory	28.54	725.0	30.19	766.9	64.8	18.2	30	nw.	7	3		0	0			0	0		Terch, A. M
Tiflis	28.54	725.0	29.88	758.9	84.9	29.4	29	se.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.38	695.5	29.87	758.8	51.4	10.8	59	n.	2	1		0	7 k			0	0		
Viatka	28.65	727.8	29.28	743.8	38.5	3.6	75	w.	11	5			6			0.039	1.0		
Warsaw	29.85	758.2	30.29	769.3	44.1	6.7	58	w.	7	3		0	5 k			0	0		Astronomical Obs'y.
Yeniseisk	29.41	747.0	29.70	754.4	39.0	3.9	97	n.	2	1			10			0.547	13.9	raining	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.02	762.4	30.16	766 0	68.4	20.2	59	e.	5.6	2.5		0	1			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.32	770.2	30.38	771.7	63.1	17.3	60	se.	0.2	0.1		2	6	e.		0.547	13.9	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.28	692.9	30.29	769.3	51.1	10.6	64	ne.	0.7	3.9		0	3			0.098	2.5	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.91	708.8	30.13	765.4	59.0	15.0	52	ne.	21.9	9.8		0	1			0.043	1.1	light clouds	The Staff.
Murcia, Met. Obs'y	29.90	759.4	30.08	764.0	63.7	17.6	72	ese.	4.0	1.8		2	5	wnw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.55	750.6	30.31	769.9	52.7	11.5	84	nw.	9.4	4.2		6 n	10 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.30	744.2	30.20	767.0	60.1	15.6	55	n.	29.8	13.3			2			0.079	2.0	light clouds	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	30.03	762.7	30.10	764.4	77.9	25.5	84	se.	1.1	0.5		cs	k	nne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	80.0	26.7	84	ssw.	15.4	6.9		0	0			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.78	756.4	29.88	758.9	57.2	14.0	88	ne.	12.4	5.6			9		ne.	1.79	45.5		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.94	760.4	30.03	762.7	78.4	25.8	86	calm	0	0		0	2 k		se.	1.213	30.8	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.68	753.9	29.72	754.9	33.4	0.8	78	s.			4		10			0	0		
Umea	29.67	753.7	29.72	755.0	39.9	4.4	62	sw			7		10			0.236	6.0		
Hernosand	29.72	754.8	29.77	756.1	33.1	0.6	92	ssw.			6		10			0	0		
Stockholm	29.91	759.7	30.09	764.2	41.4	5.2	45	sw.			6		10			0	0		
Wisby	30.12	765.1	30.18	766.6	42.4	5.8	64	w.			4		3			0.094	2.4		
Sub-series.																			
Upsala	29.97	761.2	30.06	763.4	39.2	4.0	60	sw.	17.9	8.0			10			0.079	2.0		H.H.Hildebrandesson
Swiss.																			
Geneva	28.84	732.5	30.28	769.0	49.1	9.5	62	nne.			4		9			0	0	covered	The Observatory.
Turkish.																			
Constantinople			30.08	763.9	69.1	20.6	61	n.	17	7.5			5		wsw.	0.087	2.2		The Observatory.
Valona			30.24?	768.2?	66.9	19.4		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.99	761.8	85.5	29.7	66	sw.			1		1 k		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.82	681.2			62	16.7	78	calm			0		10 n		sw.	0	0	threatening.	Fred L. Kingsbury.
United States.																			
Albany, New York	30.27	768.8	30.35	770.9	48	8.9	63	ne.	4	1.8		7 c	0	nw.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.66	753.4	30.33	770.4	34	1.1	89	w.	4	1.8		0	fg.			0.08	2.0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.92	633.0	29.82	757.4	49.0	9.4	56	sw.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.15	689.6	30.07	763.8	42	5.6	93	w.	5	2.2			10 n		w.	0.10	2.5	light rain	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.23	767.8	62.4	16.9	93	ne.	5	2.2		0	fg.			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.21	767 3	30.22	767.6	55	12.8	69	e.	18	8.0		3 cs	5 s			0.26	6.6	cloudy	Jas. M. Watson.
Augusta, Georgia	30.03	762.7	30.22	767.6	62.0	16.7	93	e.	3	1.3			fg.			0	0	dense fog	Louis Duane.
Baltimore, Maryland	30.24	768.1	30.29	769.4	53.5	11.9	90	se.	7	3.1			10 n		e.	0.17	4.3	light rain	Geo. W. Felger.
Barnegat City, New Jersey	30.23	767.8	30.25	768.3	54.0	12.2	80	e.	16	7.2		0	8 k		e.	0.13	3.3	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.23	717.0	29.85	758.2	54.0	12.2	80	se.	1	0.4		4 c	4 s	nw.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.20	690.9	30.11	764.8	44	6.7	68	s.	4	1.8			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.01	711.4	29.89	759.4	48	8.9	80	e.	4	1.8		0	1 s		w.	0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.26	768.6	30.29	769.4	51.0	10.6	66	ne.	8	3 6		4 cs	0	sw.		0	0	fair	J. T. Eiker.
Boise City, Idaho	27.16	689 9	30.02	762.5	39	3.9	92	nw.	2	0.9		0	6 s			0.11	2.8	fair	B. E. Light.
Boston, Massachusetts	30.15	765.8	30.31	769.9	40.0	4.4	73	nw.	7	3.1		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.06	763 5	30.12	765.0	74.0	23.3	97	calm	0	0		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.51	749.5	30.27	768.8	45.4	7.4	93	ne.	2	0.9		0	3 s;sk			0.03	0.8	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.90	708.6	29.95	760.7	48	8.9	86	n.	6	2.7			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.88	758.9	30.28	769.1	56.1	13.4	85	e.	8	3.6			10 s		e.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.04	763.0	30.24	768.1	49.0	9.4	96	se.	5	2.2			10 s		nw.	0	0	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.16	766.1	30.18	765.6	62.0	16.7	87	n	18	8.0			10 ks		n.	1.30	33.0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.19	766.8	30.22	767.6	58.0	14.4	80	ne.	18	8.0			10 s		e.	0.21	5.3	cloudy	Wm. Bolton.
Cape Mendocino, California	29.44	747.8	30.13	765.3	47	8.3	68	n.	18	8.0		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	84.0	28.9	80	s.	3	1.3		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.13	765.3	30.19	766.8	64.0	17.8	93	ne.	7	3.1			10 s			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.24	768.1	56.0	13.3	96	ne.	2	0.9			fg.			0.18	4.6	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.24	768.1	64.0	17.8	100	ne.	3	1.3			fg.			0.65	16.5	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.00	762.0	39.9	4.4	45	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.59	751.6	30.30	769.6	50.5	10.3	86	calm	0	0		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30 16	766.1	30.18	766.6	58	14.4	93	e.	12	5.4			10 s		e.	0.34	8.6	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.66	753.4	30.32	770.1	57.0	13.9	80	nw.	3	1.3			10 s		nw.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.54	750.3	30.28	769 1	52.5	11.4	86	n.	2	0.9			10 n		ne.	inap.	inap.	light rain	J. B. Newlin.
Columbus, Ohio	29.43	747.5	30.29	769.4	54	12.2	80	nw.	3	1.3			10 s		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.14	714.7	30.09	764.3	68.8	20.4	90	s.	4	1.8			10 k		s.	0	0	cloudy	C. E. King.
Custer, Fort, M. T.	26.77	679.9	30.01	762.2	41	5.0	82	n.	5	2.2			10 s			0	0	threatening.	T. Gibson.
Davenport, Iowa	29.58	751.3	30.24	768.1	51	10.6	93	se.	8	3.6			fg			0	0	dense fog	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.05	763 3	61	16.1	78	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.41	721.6	30.20	767.1	26.0	— 3.3	88	ne.	1	0.4		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.26	641.6	29.94	760.5	45.5	7.5	61	w.	2	0.9		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.20	767.1	30.22	767.6	58	14.4	93	e.	25	11.2			10 s		e.	0.38	9.7	cloudy	F. W. Mixer.
Denver, Colorado	24.66	626.4	29.92	760.0	46.5	8.1	51	s.	4	1.8		0	1 s			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.25	742.9	30.17	766.3	54	12.2	86	se.	5	2.2		4 cs	3 s	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.59	751.6	30.30	769.6	48.0	8.9	93	nw.	4	1.8			10 s			0.04	1.0	cloudy	E. R. Brace.
Dodge City, Kansas	27.41	696 2	30.04	763.0	63	17.2	84	se.	16	7.2			10 s		se.	0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.56	750.8	30.28	769.1	50.5	10.3	90	se.	7	3.1			fg			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.17	766.3	50	10.0	93	ne.	6	2.7			fg.			0.03	0.8	dense fog	N. B. Conger.
Eastport, Maine	30.22	767.6	30.29	769.4	42.0	5.6	65	nw.	5	2.2		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.29	693.2	30.08	764 0	62	16.7	93	calm	0	0		0	2 s			0	0	clear	J. C. Rickli.
El Paso, Texas	26.27	667.2	30.01	762.2	60.2	15.7	93	n.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.55	750.6	30.28	769.1	53	11.7	86	n.	2	0.9			10 s		n.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.60	751.8	30.27	768.8	49.0	9.4	93	calm	0	0			10 s		sw.	0.02	0.5	cloudy	George Heathcote.
Galveston, Texas	30.12	765.0	30.16	766.1	77.9	25.5	64	s.	5	2.2		0	8 ks		sw.	0	0	cloudy	E. O'C. Machenrey.
Grand Haven, Michigan	29.63	752.6	30.30	769.6	50.0	10.0	90	e.	6	2.7			10 s			0	0	cloudy	Wm. H. Fallon.

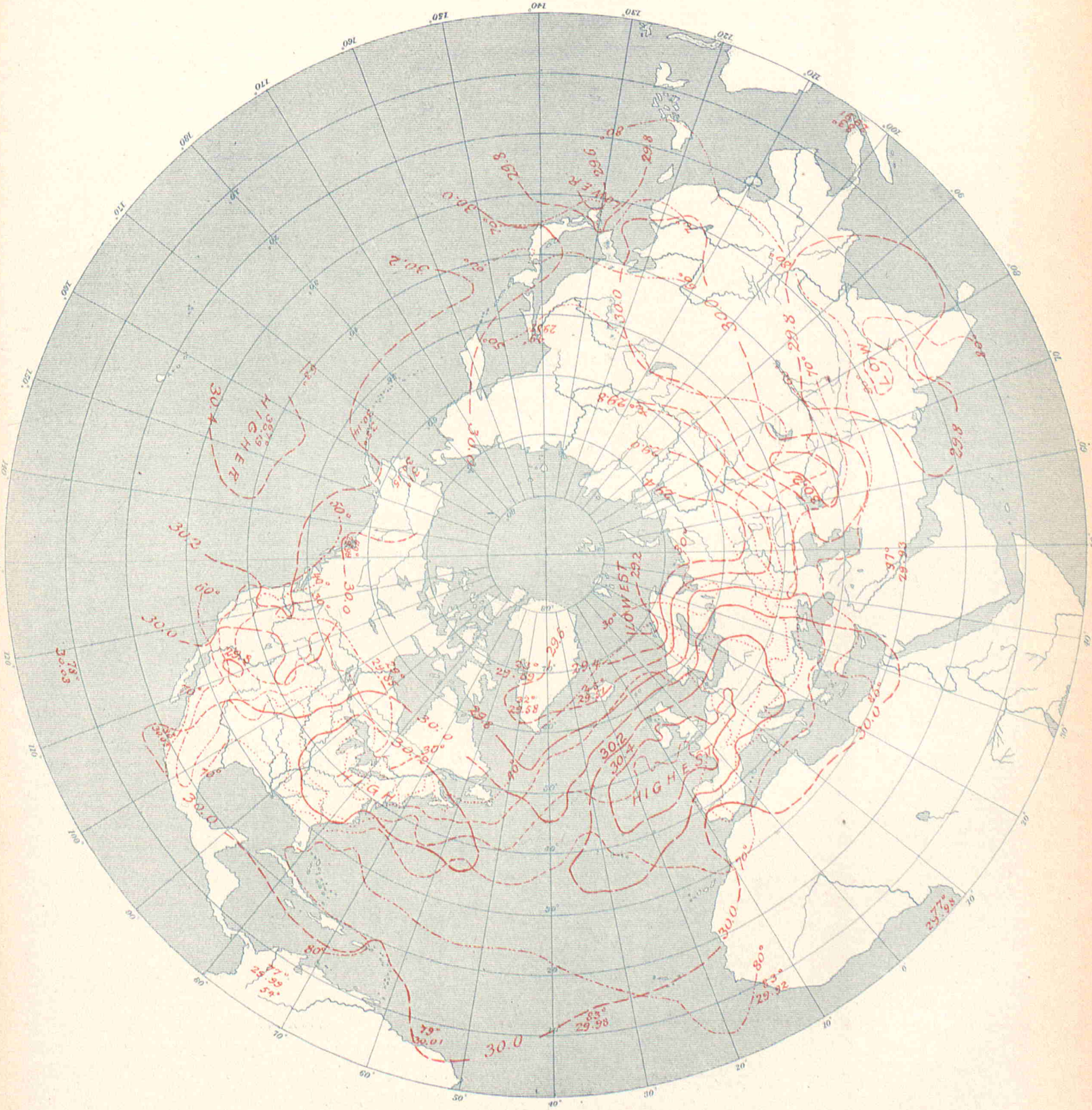
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.17	639.3	29.87	758.7	60.7	15.9	41	se.	6	2.7		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.11	764.8	30.12	765.0	63.0	17.2	93	n.	25	11.2			10 s		n.	0.30	7.6	cloudy	R. M. Crawford.
Helena, Montana	25.77	654.5	30.07	763.8	41	5.0	92	n.	1	0.4			10 n			blank	blank	light rain	I. H. Jones.
Huron, Dakota	28.52	724.4	29.96	761.0	57.2	14.0	79	se.	11	4.9			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.49	749.0	30.29	769.4	52.2	11.2	86	calm	0	0		0	0			inap.	inap.	clear	C. F. R. Wappenhans.
Indianola, Texas	30.12	765.0	30.15	765.8	74.2	23.4	89	se.	7	3.1		0	1 k		s.	0	0	clear	I. A. Reed.
Jacksonville Florida	30.12	765.0	30.16	766.1	77.0	25.0	90	ne.	4	1.8		3 cs	0			0.41	10.4	clear	J. W. Smith.
Keokuk, Iowa	29.56	750.8	30.23	767.8	55.0	12.8	86	e.	6	2.7		10 k	0			0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	81	27.2	88	ne.	7	3.1		0	3 k		ne.	0.09	2.3	clear	A. W. Browne.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	61	16.1	93	n.	24	10.7			10 n		n.	0.39	9.9	light rain	Wesley Blake.
Knoxville, Tennessee	29.22	742.2	30.26	768.6	60.5	15.8	89	n.	8	3.6		0	3 s			0.41	10.4	clear	J. A. Cody.
La Crosse, Wisconsin	29.41	747.0	30.20	767.1	52	11.1	86	s.	4	1.8			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.20	741.7	30.10	764.5	63	17.2	78	s	1	0.4		7 k	0	w.		0	0	fair	T. S. Outram.
Lewiston, Idaho	29.34	745.2	30.19	766.8	36.0	2.2	79	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.82	757.4	30.14	765.5	73.0	22.8	97	e.	3	1.3			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	52	11.1	80	ne.	8	3.6		0	2 s		s.	inap.	inap.	clear	T. S. Collins.
Louisville, Kentucky	29.71	754.6	30.28	769.1	56.6	13.7	85	ne.	3	1.3		0	2 s			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.54	750.3	30.23	767.8	53	11.7	90	ne.	2	0.9			10 s		ne.	0.05	1.3	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.64	752.8	30.31	769.9	49.0	9.4	86	s.	3	1.3			10 s			inap.	inap.	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.15	765.8	30.16	766.1	59.0	15.0	87	n.	22	9.8			10 s			0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.49	647.4	30.03	762.7	38.3	3.5	82	n.	12	5.4		0	8 s		n.	0	0	cloudy	F. Burke.
Marquette, Michigan	29.51	749.5	30.25	768.3	49.5	9.7	86	sw.	13	5.8			10 s		nw.	0.08	2.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.17	766.3	68	20.0	73	ne.	5	2.2		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.55	750.6	30.31	769.9	49.8	9.9	77	nw.	4	1.8		0	9 ks		nw.	0.01	0.3	cloudy	W. Lins.
Mobile, Alabama	30.13	765.3	30.17	766.3	73	22.8	93	calm	0	0		0	hz.			0	0	light haze	H. U. Jones.
Montgomery, Alabama	29.95	760.7	30.18	766.6	72	22.2	76	sw.	1	0.4		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.92	734.6	29.94	760.5	50	10.0	86	se.	14	6.3		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.99	609.3	30.33	770.4	28.5	— 1.9	80	nw.	6	2.7		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.67	753.6	30.25	768.3	60.0	15.6	87	ne.	6	2.7			10 ks		e.	0.01	0.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.19	766.8	30.31	769.9	45.5	7.5	65	n.	5	2.2		0	8 k			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.29	769.4	30.34	770.6	51	10.6	72	calm	0	0		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.11	764.8	30.16	766.1	76.0	24.4	84	w.	5	2.2		0	0			0	0	clear	M. Herman.
New York, New York	30.13	765.3	30.31	769.9	49.0	9.4	86	e.	10	4.5		0	4 s			0.29	7.4	fair	H. J. Penrod.
Norfolk, Virginia	30.14	765.5	30.17	766.3	59.0	15.0	100	n	8	3.6			10 n			0.46	11.7	light rain	Wm. Davis.
North Platte, Nebraska	26.96	684.8	29.92	760.0	63.6	17.6	88	s.	14	6.3		0	8 s		s.	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.16	766.1	30.20	767.1	40.0	4.4	82	calm	0	0		4 cs	0			0	0	fair	J. Dascomb.
Omaha, Nebraska	28.89	733.8	30.09	764.3	60.7	15.9	84	se.	1	0.4		0	8 ks		se.	0	0	cloudy	A. Pollak
Oswego, New York	29.96	761.0	30.29	769.4	48.0	8.9	77	se.	5	2.2			10 s			0.01	0.3	cloudy	J. G. Linsley.
Palestine, Texas	29.63	752.6	30.19	766.8	69.5	20.8	94	s	7	3.1			10 ks		sw.	0	0	cloudy	E. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	71.1	21.7	94	sw.	2	0.9		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.19	766.8	30.29	769.4	50	10.0	93	ne.	6	2.7			10 s		ne.	0.18	4.6	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.84	453.1	30.12	765.0	22	— 5.6	73	sw.	36	16.1		0	2 ks		sw.	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.47	748.5	30.29	769.4	52.3	11.3	86	n.	3	1.3			10 s		n.	0.02	0.5	cloudy	G. C. Schaeffer.
Port Huron, Michigan	29.57	751.1	30.26	768.6	43.0	6.	83	calm	0	0			fg.			0.08	2.0	dense fog	M. H. Perry
Portland, Maine	30.27	768.8	30.32	770.1	42	5.6	65	n.	2	0.9		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.19	766.8	30.26	768.6	43.0	6.1	93	nw.	1	0.4			10 s			0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.63	625.6	29.79	756.7	49.5	9.7	72	sw.	12	5.4		0	8 s		s.	0	0	cloudy	N. D. Lane.
Provincetown, Mass.	30.27	768.8	30.30	769.6	49.5	9.7	63	calm	0	0		2 cs	0			0	0	clear	C. N. Kitchel.
Red Bluff, California	29.75	755.6	30.11	764.8	47	8.3	68	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.92	760.0	30.16	766.1	73.0	22.8	85	se.	3	1.3		0	4 s		se.	0	0	fair	Fred. Belford.
Roseburg, Oregon	29.73	755.1	30.29	769.4	38.7	3.7	89	calm	0	0			10 s			0.01	0.3	cloudy	J. J. Naury.
Sacramento, California	29.96	761.0	30.04	763.0	45.0	7.2	83	nw.	10	4.5		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.65	753.1	30.27	768.8	58.0	14.4	93	se.	11	4.9			9 s		w.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	30.12	765.0	30.15	765.8	31	— 0.6	88	w.	10	4.5		0	3 s			0.08	2.0	clear	Fred. H. Clarke.
St. Paul, Minnesota	29.26	743.2	30.13	765.3	50.0	10.0	96	se.	8	3.6			10 s			inap.	inap.	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.99	736.3	29.89	759.2	49	9.4	93	se.	5	2.2			10 s			0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.51	647.9	29.91	759.7	48	8.9	86	e.	4	1.8			10 n			0.36	9.1	light rain	J. Craig.
San Diego, California	29.94	760.5	30.02	762.5	58.5	14.7	61	w	8	3.6		0	3 k		w.	inap.	inap.	clear	F. R. Day.
Sanford, Florida	30.08	764.0	30.14	765.5	74	23.3	94	sw.	2	0.9		0	fg.			0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.61	752.1	30.30	769.6	53.5	11.9	90	n.	9	4.0			10 ks		n.	0.02	0.5	cloudy	B. F. Heugh.
Sandy Hook, New Jersey	30.26	768.6	30.29	769.4	53.0	11.7	66	e.	16	7.2		5 k	0	e.		0.22	5.6	fair	B. A. Blundon.
San Francisco, California	29.99	761.7	30.06	763.5	51.5	10.8	86	sw.	1	0.4		0	0			0	0	clear	N. Gorom.
Savannah, Georgia	30.09	764.3	30.18	766.6	66.7	19.3	84	n.	5	2.2		0	8 ks		w.	inap.	inap.	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.39	670.3	30.09	764.3	39	3.9	92	calm	0	0		0	7 s			0.04	1.0	fair	S. W. Morrison.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	69.5	20.8	83	s.	1	0.4		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly.
Sitka, Alaska	29.92	760.0	29.99	761.7	49	9.4	86	e.	2	0.9			10 s		e.	0.03	0.8	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.66	753.4	30.14	765.5	69.9	21.1	94	e.	3	1.3		0	0			0.05	1.3	clear	J. B. Campbell.
Smithville North Carolina	30.15	765.8	30.19	766.8	60.5	15.8	91	n.	8	3.6			10 s		ne.	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.13	765.3	27	— 2.8	77	calm	0	0			0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.58	751.3	30.27	768.8	53	11.7	83	se.	8	3.6			9 s		w.	inap.	inap.	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.05	687.1	30.08	764.0	66.0	18.9	90	se.	6	2.7		0	0			0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	30.11	764.8			49.0	9.4	96	sw.	5	2.2			10 s		sw.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona					51	10.6	32	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.57	751.1	30.27	768.8	51	10.6	86	n.	4	1.8			10 s			0	0	cloudy	A. Buell.
Unalashka, Alaska	30.11	764.8	30.14	765.5	35	1.7	89	ne.	2	0.9		0	0			0	0	clear	Samuel Applegate.
Verde, Fort, Arizona					58	14.4	50	se.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.93	760.2	30.19	766.8	71.0	21.7	84	se.	2	0.9		0	hz.			0	0	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.15	765.8	30.27	768.8	53.0	11.7	94	n.	4	1.8			10 n		ne.	0.14	3.6	light rain	T. B. Harrison.
West Las Animas, Colorado	25.96	659.4	29.89	759.2	60.5	15.8	70	s.	12	5.4		0	1 s			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.14	765.5	30.20	767.1	61.5	16.4	90	n.	7	3.1			10 s		ne.	0.01	0.3	cloudy	Samuel A. Haney.
Yankton, Dakota	28.66	728.0	29.99	761.7	59.4	15.2	90	se.	7	3.1			10 s			0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.74	755.4	29.89	759.2	59.0	15.0	53	nw.	7	3.1		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					76	24.4		n.			2	0	9 n		n.	1.14	29.0	drizzling	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			54.0	12.2	66	calm	0	0		0	1 s			0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.02	762.5	78.0	25.0	91	calm	0	0		2 cs	2 s	e.		1.19	30.2	fair	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	79	26.1	82	se.			2	4 c	4 k	e.		0	0		Dr. C. J. Herint.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	77	25.0	89	calm			0		10 ks		calm	0.70	17.8	cloudy	Francisco J. Olsueros.
Rivas, Nicaragua, C. A.					77	25.0	88	ne.			1		5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	29.78	756.4	29.85	758.2	26.5	— 3.1	94	nw.	11	4.9		1 c	1 s	nw.	nw.	0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 40° 48′, E. 24° 43′	30.06	763.5	74	23.3	47	ene.			1		1	ene.						blue sky.
H. M. S. Cockatrice, N. 36° 20′, E. 22° 21′	30.14	765.5	77	25.0		w.			3		2	sw.				4	wsw.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.10	764.5	70	21.1	75	nne.			4		6	nne.						d. clouds.
H. M. S. Flamingo, Plate Cove, N. F.	29.90	759.4	40	4.4	100	sw.			1									d. clouds.
H. M. S. Himalaya, N. 36° 55′, E 0° 18′			69	20.6	80	ne.			4		8	ene.				4	ene.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.04	763.0	81	27.2	83	nnw.			2		0							blue sky.
H. M. S. Orontes, N. 32° 38′, W. 17° 25′	30.03	762.7	69.5	20.8	82	n.			5		1	wnw.				3	nnw.	blue sky.
H. M. S. Opal, N. 0° 08′, W. 3° 13′	29.98	761.5	77	25.0	77	sse.			3		2	sse.				3	sse.	d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.91	759.7	82.4	28.0	77	nw.			5		9		sw.			5	sw.	overcast.
U. S. Navy Yard, Portsmouth, N. H*	30.25	768.3	40	4.4	73	nw.	4	1.8			0			0	0			clear.
U. S. S. Alliance, Portland, Me	30.35	770.9	44	6.7	84	nne.			3		10?		calm	0	0	sm'h		clear.
U. S. S. Jamestown, N. 22° 07′, W. 52° 20′	30.05	763.3	81	27.2	96	sse.			2		2					sm'h	se.	fair.
U. S. S. Kearsarge, N. 33° 18′, W. 9° 02′	29.95	760.7	65	18.3	78	n.			3		2					h'vy	n.	fair.
U. S. S. Lancaster, Gibraltar, Mediterranean	29.90	759.4	62	16.7	94	nne.			3		10		ne.					raining.
U. S. S. New Hampshire, Newport, R. I.			52	11.1	73	nne			3		2					sm'h		fair.
U. S. S. Portsmouth, New York, N. Y.	30.31	769.9	50	10.0	100	ne.			2		2		ne.					fair.
U. S. S. Powhatan, North Sydney, C. B.	30.18	766.6	43	6.1	83	wsw.			2		0							clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	63	17.2	62	ene.			1		2		w.					fair
U. S. S. Pinta, New York, N. Y.	30.30	769.6	50	10.0	86	ene.			1		0							foggy.
U. S. S. Saratoga, New York, N. Y.	30.31	769.9	50	10.0	79	ne.			3		2		ne.	light	light	sm'h	ne.	fair.
U. S. S. Swatara, Boston, Mass	30.28	769.1	45	7.2	61	w.			1		2		w.	0	0	sm'h		clear.
U. S. S. Vandalia, N. 41° 22′, W. 70° 58′ †	30.30	769.6	52	11.1	79	nw.			2		2		calm					fair.
S. S. British Princess, N. 44° 25′, W. 56° 10′ †	30.11?	764.8?	49	9.4		w.			5		10		w.	4 h'r	4 h'r	rg'h	wnw.	cloudy.
S. S. Lord Clive, N. 42° 04′, W. 63° 43′						nw.			3		0			0	0	sm'h		fine.
S. S. Lord Gough, N. 51° 50′, W. 26° 37′			57	13.9		ssw.			6		10		ssw.	0	0	mod.	sw.	cloudy.
S. S. Ohio, N. 45° 10′, W. 51° 50′ †	30.13	765.3	47	8.3	100	nw			4		4		nw.	0	0	sm'h	nw.	clear.
S. S. Prussian, N. 42° 28′, W. 61° 50′	30.27	768.8	52	11.1		nnw.			3		3		nw.	0	0	sm'h	nw.	clear.
S. S. Scandinavian, N. 42° 45′, W. 60° 33′			48	8.9		nw.			1		3		nnw.	0	0	con.	var.	d. clouds
S. S. Sardinian, N. 56° 39′, W. 21° 26′	30.04	763.0	55	12.8		ssw.			7		10		sw.	4 h'r	4 h'r	r'gh	wsw.	cloudy.
S. S. Jason, N 39° 14′, W. 68° 19′ †	30.28	769.1	73.4	23.0		e.			4	5 ck?	0					2	e.	cloudy.
S. S. Alvo, N. 36° 39′, W. 74° 01′			68	20.0		nne.			6		10		n.	0	0	r'gh	nne.	
S. S. Ailsa, N. 22° 28′, W. 74° 25′			75?	23.9?	100	e.			3		2		e.	3 h'r	3 h'r	sm'h		fine.
S. S. Avilla, N. 27° 17′, W. 73° 56′			86	30.0		n.					2		n.	rain	rain		n.	
S. S. Dorian, Malaga, Spain	29.85	758.2				e.			7		10		e.	3 h'r	3 h'r			cloudy.
S. S. Carroll, N. 43° 12′, W. 66° 43′			58	14.4	53	ne.			2		0			0	0	short	ene.	clear.
S. S. Jerome, N. 17° 07′ W. 57° 12′ *	30.01	762.2	81	27.2		ene.			3		4		nne.	0	0	sli't	ese.	clear.
S. S. Llandaff City, N. 50° 26′, W. 27° 06′ †	30.36	771.1	58	14.4		ssw.			6		10		s.	0	0	high	sw.	hazy.
S. S. Cephalonia, N. 50° 57′, W. 16° 33′	30.52	775.2	64	17.8	89	calm			0		10		ene.	2 h'r	2 h'r	sli't	wsw.	misty.
S. S. Bothnia, N. 42° 22′, W. 56° 11′	30.13?	765.3?	57	13.9	?	wnw.			2		8		wnw.	4 h'r	4 h'r	mod.	wnw.	cloudy.
S. S. Pavonia, Queenstown, Ireland*	30.50	774.7	57	13.9	87	wnw			2		6		wnw.	0	0	sm'h	nw.	fair
S. S. Scythia, N. 44° 30′, W. 45° 36′	30.11	764.8	58	14.4		wnw.			1		4		calm	0	0	long	se.	
S. S. Samaria, N. 49° 30′, W. 29° 00′ *	30.22	767.6	57	13.9		ssw.			6		9		sw.	2 h'r	2 h'r	r'gh	sw.	cloudy
S. S. Canada, N. 49° 44′, W. 9° 05′	30.56	776.1	53.6	12		calm			0	c		calm		0	0	sm'h		clear.
S. S. Olinde Rodrignes, N. 21° 30′, W. 52° 53′*†	30.10	764.5	79	26.1		s.			2		5		se.	sh'rs	sh'rs	sm'h		fair.
S. S. Arizona, N. 40° 42′, W. 69° 51′	30.31	769.9	55	12.8		ne.			1		3		n.	0	0	sm'h		clear.
S. S. Bohemia, Hamburg, Germany						ne.			5		5?		ne.	0	0			cloudy ?
S. S. Gellert, Hamburg, Germany	30.33	770.4	49	9.4	78	sw.			5		10?		sw.	0	0			clear ?
S. S. Lessing, N. 50° 08′, W. 12° 55′			60	15.6		wsw.			4		5		w.	0	0	mod.	wnw.	hazy.
S. S. Rugia, N. 44° 20′, W. 54° 41′	30.10	764.5	48	8.0		nw.			6		5		nnw.	rain	rain	mod	nnw	fair.
S. S. Silesia, Staten Island, N. Y.	30.35	770.9	50	10.0		nne.			2		8		n.	0	0	sm'h		fair.
S. S. Nessmore, N. 40° 04′, W. 65° 02′	30.27	768.8	57	13.9	87	ne.			2		4		ne.	0	0	mod.	ne.	fine.
S. S. Hevelius, Liverpool, Eng.			58	14.4		wsw.			6				sw.	0	0			cloudy.
S. S. Rio Grande, N. 29° 05′, W. 94° 03′ †	30.21	767.3	81	27.2		se.			1		4		se.	0	0	light	se.	clear.
S. S. Chalmette, N. 31° 40′, W. 78° 30′ †	30.12	765.0	57?	13.9?		nnw.			6		10		n.	1 h'r	1 h'r	mod.	nnw.	cloudy.
S. S. Lone Star, N. 40° 19′, W. 73° 53′			56	13.3		ene.			4		5		ene.	16 h'r	16 h'r	small	ne.	clearing.
S. S. Alleghany, Baltimore, Md †	30.29	769.4	56	13.3		ne.			2		8		n.	light	light			
S. S. Archimede, N. 35° 25′, W. 56° 52′ †	30.20	767.1	74	23.3		nnw.			4		4		nnw.	2 h'r	2 h'r	h'vy	nw.	fair.
S. S. City of Merida, N. 24° 35′, W. 80° 30′ *†	30.14	765.5	84	28.9		ene.			3		5		ene.	0	0	light	ne.	fine.
S. S. Canada, N. 47° 30′, W. 52° 38′			41	5.0		nw.			6		5?		nw.	0	0	sm'h		clear.
S. S. Denmark, N. 48° 57′, W. 19° 33′			60	15.6		var.			2		10			0	0	sm'h		foggy.
S. S. Grecian, Three Rivers, Quebec, Canada	30.33	770.4	36	2.2	80	se.			1		0			0	0			clear.
S. S. England, N. 39° 25′, W. 29° 36′	30.26	768.6				sw.			5		8		sw.	0	0	high	w.	cloudy.
S. S. Erin, London, Eng.			54	12.2		w.			3		2		w.	0	0			clear.
S. S. Greece, N. 41° 41′, W. 52° 03′			56	13.3	81	ene.			6		2		ene.	0	0	mod.	ene.	clear
S. S. Holland, N. 48° 55′ W. 18° 53′	30.51	774.9	60	15.6		sw.			2		10					sm'h	w.	foggy.
S. S. The Queen, N. 49° 41′, W. 24° 34′			55	12.8		s.			4		10		s.	0	0	mod	ssw.	dull.
S. S. America, N. 42° 49′, W. 62° 36′*	30.20	767.1	49.0	9.4	64	wnw.			4		3?		wnw.	0	0	mod.	w.	covered.?
S. S. Donau, N. 49° 20′, W. 37° 14′	29.94	760.5				nw.			2		9		n.	6 h'r	6 h'r	r'gh	var.	cloudy.
S. S. Elbe, Bremerhaven, Germany			54.5	12.5	94	w.			3		2?		w.	0	0			cloudy?
S. S. Habsburg, N. 43° 15′. W. 57° 48′	30.24	768.1				nw.			4		4		w.	0	0	mod.	nw.	fair.
S. S. Hohenstaufen, N. 33° 51′, W. 17° 04′	30.11	764.8	63.5	17.5		ne.			4		7		ne.	1 h'r	1 h'r	mod.	ne.	fair.
S. S. Orinoco, N. 35° 27′, W. 68° 00′ †	30.18	766.6	68	20.0		ese.			4		10		se.	6 h'r	6 h'r	light	se.	raining.
S. S. Main, N. 49° 40′, W. 14° 29′			59.0	15.0		sw.			2							sm'h	sw.	foggy.
S. S. Ohio, N. 44° 39′, W. 12° 54′	30.53	775.4				ene.			4		5		e.	0	0	light	e.	fair.
S. S. Rhein, N. 40° 24′, W. 69° 55′	30.20	768.6				e.			2		3		e.	0	0	mod.	e.	clear.
S. S. City of Augusta, New York, N. Y †	30.26	768.6				ene.			6		10?		e.					clear?
S. S. Muriel, St. Thomas, W. I.	29.96	761.0	82	27.8		e.			2		0			0	0	sm'h		clear
S. S. Rhynland, N. 50° 17′, W. 22° 26′	30.49	774.4	56	13.3		sse.			3		9		sse.	0	0	mod.	s.	hazy.
S. S. Pennland, N. 40° 29′, W. 68° 38′ †	30.32	770.1	49	9.4	78	ene.			2		6		ne.	0	0	sm'h		fair.
S. S. Switzerland, N. 46° 45′, W. 47° 52′*†	29.98?	761.5?				wsw.			3		2		wsw.	6 h'r	6 h'r	light	sw.	clear.
S. S. Vaderland, N. 49° 36′, W. 19° 30′	30.53	775.4	65	18.3		calm			0		10			0	0	light	wnw.	foggy.
S. S. Waesland, English Channel	30.45	773.4	56	13.3		n.			1		9			0	0	sm'h		cloudy.
S. S. P. Caland, N. 49° 56′, W. 4° 40′	30.53	775.4	58.6	14.8	76	n.			2		4		var.			sm'h		fair.
S. S. Schiedam, N. 48° 07′. W. 38° 13′	29.83	757.7	65.3	18.5	88	wnw.			4-5		10			4 h'r	4 h'r	long	wsw.	cloudy.
S. S. Zaandam, New York, N. Y.	30.35	770.9	53.6	12.0	97	ne.			3		2		e.	0	0			clear.
S. S. W. A. Scholten, N. 40° 42′, W. 69° 00′	30.33	770.4	50.9	10.5	81	ne.			4		3		e.	0	0	1	e.	clear.
S. S. Valencia, LaGuayra, Venezuela*†	29.95	760.7	81	27.2	83	e.			1		6		ene.	3 h'r	3 h'r	light	ene.	fair.
S. S. State of Georgia, N. 44° 04′, W. 57° 27′	30.20	767.1	48	8.9		wnw.			5		10		n.	0	0	sm'h		cloudy.
S. S. State of Indiana, N. 55° 28′ W. 8° 20′*†	30.40	772.1				wnw.			4		6		wnw.	0	0			hazy.
S. S. Thingvalla, New York, N. Y †	30.33	770.4	53.6	12.0		nnw.			2		2		nnw.	0	0			clear.
S. S. Otranto, N. 50° 50′, W. 24° 55′			62	16.7		s.			6		8		s.	0	0	cross	sw.	cloudy.
S. S. Romano, Boston, Mass.			49	9.4		n.			2		0			0	0			clear.
S. S. Salerno, N. 50° 50′, E. 1° 00′ *†	30.40	772.1	56	13.3		nw.			2		10		nw.	0	0	sm'h	n.	cloudy
S. S. Oregon, N. 56° 18′, W. 13° 33′	30.30	769.6	56	13.3		wsw.			4		10		wsw.			mod.	wsw.	foggy
S. S. Quebec, Montreal, Canada	30.35	770.9	36	2.2		s.			1		2		s.	0	0			clear
S. S. Texas, N. 55° 20′, W. 39° 25 *†	29.86	758.4	56	13.3	87	wnw.			5		2		w.	0	0		w.	
S. S. Olbers, N. 20° 34′ W. 57° 57′	30.07	763.8	83	28.3	87	calm			0		4		n.	0	0	sm'h	ene.	fair.
S. S. Daniel Steinmann, N. 47° 44′, W. 44° 43′†	30.08	764.0	53	11.7		wsw.			4		5		wsw.	16 h'r	16 h'r	long	sw.	fair.
S. S. Adriatic, N. 48° 42′, W. 38° 02′*†	29.95	760.7	54	12.2		nnw.			6				w.			high	sw.	overcast.
S. S. Celtic, N. 40° 47′, W. 67° 22′			62	16.7		n.			1		5		n.	0	0	sm'h		fair.
S. S. Iowa, N. 49° 47′, W. 40° 12′†	29.88	758.9	53	11.7		wnw.			4		8		wnw.	5 h'r	5 h'r	con.		cloudy.
S. S. Assyrian Monarch, N. 44° 49′ W. 56° 04′	30.16	766.1				w.			6		2		w.	0	0	mod	w.	clear.
Bk. Arda, N. 27° 13′, W. 28° 30′ †	30.06	763.5				var.			1		2		se.	0	0	mod.	ene.	squally.
Bk. Alpheus Marshall, N. 6° 07′, W. 20° 34′ *†	29.94	760.5	76	24.4	100	sw.			4		10		ssw.	3 h'r	3 h'r	mod.	sse.	drizzling.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 53° 29′, W. 31° 54′	29.92	760.0	58	14.4	94	sse.			6		8		s.	2 h'r	2 h'r	cross	s.	cloudy.
Bg. Abbie Clifford, N. 29° 24′, W. 64° 16′†	30.10	764.5	76	24.4		ne.			5		2	s.	ene.	0	0	small	ne.	threatening.
Schr. Arthur Burton, N. 36° 00′, W. 75° 00′†	30.11	764.8				n.			7		8		n.	5 h'r	5 h'r	r'gh	n.	threatening.
Schr. Abbie H. Gheen, Baltimore, Md†	30.24	768.1	54	12.2		ne.			2									raining.
S. S. Antonio Lopez, Cadiz, Spain*	29.85	758.2	57	13.9	94	ne.			5		9			5 h'r	5 h'r			squally.
Schr. Adda Doane, N. 25° 14′, W. 57° 25′*†	30.04	763.0				sw.			2		2		wsw.	0	0	long	nw.	clear.
Bg. Belle of the Bay, Galveston, Texas†	30.13	765.3				s.			2		3			0	0			clear.
S. S. Benledi, N. 33° —′, E. 26° 45′*	30.09	764.3	77	25.0	73	nnw.			2		4		nw.	0	0	long	nw.	fine.
S. S. Burswell, N. 48° 39′, W. 7° 12*†	30.50	774.7	63	17.2		n.			2		3		ne.	0	0	sm'h		clear.
Bk. Ceylon, N. 11° 50′, W. 35° 00′†	29.98	761.5	83	28.3	91	ene.			4		3		ese.	½h'r	½h'r	long	ne.	squally.
Schr. Clotilde, N. 32° 22′, W. 75° 12′	30.09	764.3	78	25.6		nw.			6		10		nw.	6 h'r	6 h'r	r'gh	nw.	squally.
Schr. C. R. Flint, Demerara, British Guiana			83	28.3							3		ene.	1 h'r	1 h'r			fair.
Bk. Don Justo, N. 39° 06′, W. 70° 52′			58	14.4		ne.			1		8		ne.	0	0	sm'h		cloudy.
S. S. D. J. Foley, N. 17° 50′, W. 76° 21′*†	30.00	762.0	84	28.9	83	ne.			1		3		ne.	0	0	sm'h		clear.
Bkt. David A. Preston, New York, N. Y.†	30.32	770.1				w.			2		5		w.	0	0			
Bk. Diamant, N. 48° 13′, W. 24° 02′	30.53	775.5	55.9	13.3	98	sse.			4		10		s.	0	0	4	w.	foggy.
S. Dynomene, N. 11° 45′, W. 25° 15′	29.95	760.7	81	27.2	91	e.			3		9			mod.	mod.	light	nne.	showery
S. E. J. Spicer, N. 45° 05′, W. 23° 55′	30.49	774.4	63	17.2	100	ne.			5		10		ne.	0	0	mod.	nne.	cloudy.
S. Festina Lente, N. 45° 28′, W. 53° 10′	30.08	764.0	45	7.2		wnw.			5		8		w.	5 h'r	5 h'r	mod.	wnw.	cloudy.
U. S. Fish. Com. S.S. Fish Hawk, Woods Holl, Mass†	30.30	769.6	48	8.9	100	n			1		3?		n.	0	0			cloudy.?
S. Gatherer, N. 46° 50′, W. 22° 50′*	30.49	774.4	62	16.7	77	se.			2		10		s.	0	0	sm'h	n.	cloudy
Bg. George, N. 29° 20′, W. 70° 50′ *†	30.11	764.8	78	25.6		se.			4		8			sh'rs	sh'rs	mod.	ne	cloudy.
Bk. Galeon, N. 22° 04′, W. 43° 40′†	30.06	763.5	81	27.2		e.			1		1			0	0	mod.	ene.	blue sky.
Bk. Hattie G. McFarland, New York, N. Y.†	30.35	770.9	51	10.6		n.			2		0			0	0			clear.
S. Hedwig, N. 20° 30′, W. 46° 19′	30.10	764.4	81.5	27.5	78	e.			3		2		e.	0	0	3	ene.	clear.
Schr. Isabel Alberto, Cedar Keys, Fla.†	30.16	766.1				ssw.			1		0			0	0			clear.
Bk. Ibis, N. 35° 25′, W. 74° 00′			70	21.1		n.			6		6		ne.	rain	rain	h'vy	ene.	squally.
Bk. John H. Pearson, N. 36° 10′, W. 4° 54′						e.			5				e.	4 h'r	4 h'r	h'vy	e.	cloudy.
Schr. Jas. Slater, N. 27° 02′, W. 63° 15′						ene.			6		2		ne.	0	0	h'vy	var.	
Bg. Josefa, N. 45° 15′, W. 56° 28′†	30.09	764.3				wnw.			6		10		wnw.	12 h'r	12 h'r	rg'h	nw.	cloudy.
Bkt. Kryolith, N. 40° 10′, W. 67° 35′						ene.			3		8		w.	0	0	sm'h		cloudy.
Bk. Lady Hincks, N. 30° 28′, W. 00° 00′*†	30.00	762.0												0	0			clear.
Bg. Lilian, N. 19° 28′, W. 62° 19′†	30.03	762.7	86	30.0		e.			1		3		ne.	0	0	mod.	se.	fair.
Bg. L. & W. Armstrong, N. 38° 12′, W. 73° 24′						ene.			6		6		ne.	3 h'r	3 h'r	mod.	ne.	fair.
S. S. Madrid, Taganrog, Russia †	29.86	758.4	66	18.9	84	w.			3		2		sw.	0	0			fair.
Bk. Matthias, N. 40° 00′, W. 54° 53′ *†	30.23	767.8	65	18.3		nnw.			3-4		4		n.	0	0	2	nnw.	fair.
Schr. Norena, N. 40° 45′, W. 69° 00′*†	30.30	769.6				e.			2		7		e.	c	0	sm'h		fine.
Bk. National Eagle, N. 39° 44′, E. 18° 29′						wsw.			5		5?		sw.	0	0	mod.	s.	cloudy.?
S. S. Radnorshire, N. 36° 39′, W. 1° 42′						ene.			8		10		nne.	0	0	h'vy	ene.	threatening.
Schr. Rollin Sanford, Milton, Fla.†	30.17	766.3				calm			0					0	0			foggy.
Bg. Rising Sun, N. 25° 41′, W. 57° 12′†	30.09	764.3	80	26.7		nw.			2		8		nw.	light	light	long	nw.	squally.
Bk. Rosalie, N. 16° 17′, W. 26° 03′*†	30.02	762.5				ese.			3		3		ese.	0	0	light	ne.	clear.
Bk. Saga, N. 57° 41′, E. 8° 17′ *†	30.06	763.5	52	11.1		var.			1-6		3		sw.	light	light	sm'h		light rain.
S. Salisbury, N. 43° 03′, W. 33° 08′	30.16	766.1	69.6	20.9	90	sse.			6		5 k		ssw.	0	0	cross	var.	fair.
Bgt. Sunlight, N. 39° 45′, W. 73° 50′						ene.			5		6		ne.	12 h'r	12 h'r	sm'h		fair.
Bk. Samuel B. Hale, N. 34° 50′, W. 39° 10′*†	30.15	765.8				s.			7				s.	0	0	short	se.	clear.
Bk. Sunbeam, N. 45° 46′, W. 35° 44′†	30.16?	766.1?	68	20.0	84	s			7		7		s.	0	0	h'vy	s.	cloudy.
Bk. Scud, N. 21° 00′, W. 58° 25′*†	30.02	762.5	86	30.0		sse.			1		1		calm	0	0	sm'h		fine.
S. St. Francis, N. 34° 43′, W. 59° 43′			69	20.6		ne.			6		5		e.	1 h'r	1 h'r	mod.	ne.	d. clouds
Schr. Viola Reppard, Cedar Point, Md†	30.16	766.1	57	13.9		ne.			2		10		e.					misty.
Schr. Walter L. Plummer, N. 24° 54′, W. 26° 48′*†	30.10	764.5				ene.			1		8		ne.			sm'h	ne.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 16° 10′, W. 37° 55′	30.05	763.3	75	23.9	86	e.			4		3	e.				3	e.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	65	18.3	89	s.			1-3		10	e.						overcast.
H. M. S. Sylvia, Maldonado, Uruguay	29.81	757.2	60	15.6	94	ne.			1		8	calm						d. clouds.
H. P. M. S. Rainha de Portugal, Landana, Guinea	29.97	761.2	77.0	25.0	83	ssw.			4		9		ssw.	0	0	3	ssw.	overcast.
H. P. M. S. Bengo, Benguela, Benguela	29.99	761.8	74.3	23.5	81	nw.			3		10			1 h'r	1 h'r	3	nw.	overcast.
U. S. S. Brooklyn, S. 37° 37′, W. 33° 41′*	30.00	762.0	58	14.4	88	n.	20	8.9			10		n.	0	0	mod.	n.	light rain.
U. S. S. Nipsic, Montevideo, Uruguay*	29.80	756.9	64	17.8	89	ene.			1		8		ne.			mod.	nw.	fair.
S. S. Teneirs, S. 32° 42′, W. 50° 50′	29.88	758.9	63	17.2	97	ne.			2		0s	9 s	sw.	1.40	35.6	2	var.	foggy.
S. S. Sirius, S. 19° 28′, W. 39° 41′	30.09	764.3				nne.			3		2		nne.	0	0	cross	var.	clear.
Bk. Aureola, S. 16° 20′, W. 36° 24′†	30.05	763.3	84	28.9		ese.			6		7		se.	24 h'r	24 h'r	h'vy	sse.	cloudy.
Bk. Adelaide, S. 0° 35′, W. 32° 18′*†	30.07	763.8	81	27.2		sse.			6		1		se.	0	0	mod.	sse	hazy
S. David Crocket, S. 51° 50′, W. 52° 10′*	29.10	739.1	42	5.6	79	w.			7		4		w.	5 h'r	5 h'r	r'gh	w.	d clouds.
Bk. E. L. Pettingill, S. 39° 38′, W. 55° 34′*†	29.80	756.9	58	14.4		w.			4		5			0	0	sm'h		fair.
Bk. Grey Eagle, S. 4° 42′, W. 31° 07′ *†	29.90	759.4				se.			3		1		se.	0	0	short	sse.	clear.
Bg. John Wesley, Natal, Brazil.*†	29.95	760.7	81	27.2		ese.			5		3		ese.	½ h'r	½ h'r			clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	29.96	761.0				ese.			2		8		w.	2 h'r	2 h'r			fair.
S. S. Menadoza, S. 25° 34′, W. 40° 45′†	30.15	765.8				ene.			4		10		nne.	0	0	r'gh	ne.	
Bk. Mohican, S. 36° 20′, W. 14° 30′	30.17	766.3	61	16.1		sse.			4		8		sse.	2 h'r	2 h'r	long	wsw.	drizzling.
Bk. Pilgrim, S. 15° 30′, W. 9° 50′*†	30.20	767.1				ese.			4		4		ese.	0	0	mod.	ese.	clear.
Bgt. Willis, S. 33° 30′, W. 51° 10′ *†	29.80	759.9	67	19.4		calm			0		5		calm	2 h'r	2 h'r	mod	ne.	fair.
Bk. Childwall, S. 0° 12′, W. 26° 20′*	29.95	760.7	79	26.1		sse.			6		3?		sse.	0	0	light	sse.	cloudy.?
Bk. Achille F, S. 23° —′, W. 36° 30′ †	30.17	766.3	75	23.9		nne.			3		0			0	0	light	sse.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.98?	761.5?	70	21.1	90	nne.			3		10	ne.						drizzling.
H. M. S. Champion, Singapore, Malay Peninsula	29.91	759.7	83	28.3	87	s.			1		0							blue sky.
H. M. S. Flying Fish, N. 36° 14′, E. 125° 45′	29.95	760.7	69	20.6	73	nne.			3		0					2		blue sky.
H. M. S. Zephyr, N. 26° 58′, E. 119° 25′	29.93	760.2	74	23.3		nne.			3		0					3	ne.	blue sky.
H. P. M. S. Tamega, Canton, China	29.94	760.5	79.7	26.5	80	calm			0		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.09	764.3	66	18.9	81	n			3		10		ne.	light	light			raining.
U. S. S. Essex, Nagasaki, Japan	29.71	754.6	71	21.7	80	nne.			3		10							overcast.
U. S. S. Hartford, Corinto, Nicaragua*	29.88	758.9	76	24.4	95	ne.			1		8			light	light			fair.
U. S. S. Juniata, Canton, China	29.95	760.7	81	27.2	100	calm			0		0			0	0			clear.
U. S. S. Monocacy, Ross Island, Corea	30.01	762.2	68	20.0	60	ne.			3		0							clear.
U. S. S. Pensacola, N. 32° 43′, E. 140° 33′ *	29.87	758.7	78	25.6	78	ene.			6		10			light	light	mod	nne.	cloudy.
U. S. S. Ranger, Mare Island, Cal	30.08	764.0	53	11.7	79	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.07	763.8	68	20.0	84	ne.			3		10		n.	0.50	12.7			cloudy.
S. S. Oceanic, N. 39° 32′, W. 169° 34′			63	17.2	100	se.			4		0		se.	12 h'r	12 h'r	4	var.	raining.
S. S. City of Chester, near Point Reyes, Cal.†	30.09	764.3	53	11.7	86	nw.			4							light	nw.	clear.
S. S. Oregon, N. 39° 59′, W. 124° 14′†	30.18	766.0	52	11.1	79	n.			4							light	nw.	clear.
S. S. Ancon, Point Vincent, Calf.	29.96	761.0	60	15.6	71	w.			3		10		nw.	0	0	mod.	w.	cloudy.
S. S. Dakota, Tacoma, Wash. Ter.			55	12.8	93	calm			0		0			0	0	sm'h		foggy.
S. S. State of California, N. 43° 20′, W. 124° 45′†	30.21	767.3	51	10.6		ese.			2		0					sm'h	nw.	clear.
S. S. City of Pekin, Hong Kong, China†	29.98	761.5	79	26.1	74	nnw.			1		5		e.	0	0			fair
S. S. City of Tokio, N. 36° 14′, E. 154° 50′†	30.17	766.3	74	23.3	90	ese.			3		3		ese.	0	0	h'vy	var.	squally.
S. S. City of Rio de Janeiro, N. 39° 04′, W. 155° 14′ †	30.49	774.4	67	19.4	90	sse.			5		1		se.	0	0	mod.	se.	hazy.
S. S. Colima, N. 19° 55′, W. 106° 08′ †	30.03	762.7	80	26.7	82	e.			3		6		ne.	0	0	small	nw.	fair
S. S. Granada, Champerico, Mexico†	29.96	761.0	77	25.0	86	calm			0		10			0	0	mod.		cloudy.
S. S. San Blas, Panama, Panama†	29.92	760.0	79	26.1		nw.			2		7		nw.	0	0			cloudy.
S. E. B. Sutton, N. 8° 30′, W. 117° 40′*†	29.94	760.5	78	25.6	95	ese.			1		7		se.	0	0	long	var.	

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Storm King, N. 5° 43′, W. 115° 50′ *†	29.95	760.7				s.			3		5?		s.	0	0	sm'h	var.	clear?
U. S. S. Palos, Canton, China	29.95	760.7	80	26.7	66	calm			0		0							clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.97	761.2	80.3	26.8	91	s.			1		6					sm'h		d. clouds.
H. M. S. Magpie, N. 1° 29′, E. 107° 30′	29.91	759.7	82.2	27.9	75	sse.			2		0					2	se.	blue sky.
H. M. S. Mutine, S. 12° 35′, W. 77° 17′	30.04	763.0	61	16.1		sse.			2		10					2	sse.	overcast.
H. M. S. Nelson, Sydney, N.S. W	29.90	759.4	50	10.0	?	w.			1		0							blue sky.
U. S. S. Iroquois, Callao, Peru	30.07	763.8	61	16.1	88	se.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili *	30.11	764.8	61	16.1	88	calm			0		2		sw.					clear.
U. S. S. Onward. Callao, Peru*†	30.15	765.8	61	16.1	94	se.			1		10		sse.			mod.	w.	cloudy.
U. S. S. Wachusetts. S. 27° 57′, W. 71° 27′*	30.13	765.3	58	14.4	100	s.			4		10		calm			mod.	s.	overcast.
S. S. Australia, Sydney, N. S. W	29.90	759.4	55	12.8	93	w.			2		2		w.	0	0			clear
S. S. City of New York, S. 4° 56′. W. 167° 10′†	29.94	760.5	83	28.3	95	se.			2		0			0	0	sm'h		clear.
S. S. City of Sydney, S. 34° 12′, E. 170° 00′*†	30.08	764.0	59	15.0	88	ne.			2		2 k		ne.			light	ne.	clear
Bk. Godeffroy, S. 43° 33′, W. 78° 45′	29.82	757.4	48.0	8.9	72	w.			5		9			shr's	shr's	long	sw.	cloudy.
S. Sovereign of the Seas, S. 14° 07′, W. 94° 18′ *†	30.20	767.1	69	20.6	85	e.			4		8		ne.	0	0	h'vy	s	cloudy.
S. Armenia, S. 17° 30′ W. 125° 00′ *	29.97	761.2	75	23.9	77	e.			4		3		e.	½ h'r	½ h'r	r'gh	se;s	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.11	764.8	66	18.9		se			4							mod.	se.	dense fog.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.04	763.0	80	26.7	82	sse.			3		5	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.02	762.5	80	26.7	87	sse.			3		2	sse				2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab River, Turkey	29.93	760.2	96.5	35.8	40	calm			0		0							blue sky.
Bk. Bore, S. 30° 30′, E. 34° 31′ *†	30.55	776.0	78	25.6		ne.			5		0			0	0	mod.	ene.	hazy.
S. Frank N. Thayer, S. 25° 16′, E. 51° 21′*†	30.30	769.6	79	26.1	64	calm			0		0			0	0	mod.	s.	blue sky.
Bk. Great Surgeon, S. 39° 07′, E. 52° 10′*†	30.00	762.0	54	12.2		sw.			6		9		sw.	½h'r	½h'r	rg'h	sw.	cloudy.
S. S. Galatia, off Calcutta, India†	29.75	755.6	86	30.0	92	wsw.			2		5		sw.	0	0	mod.	sw.	fine.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 8, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.90	759.5	80.6	27.0	66	s.			5		0			0	0	clear	Roziere.
Algiers			30.00	762.0	72.3	22.4	74	ne.			5		0			0	0	clear	Thève.
La Calle			30.10	764.5	76.6	24.8	76	ese.			4		2			0	0	fair	Fonfrède.
Tunis			30.16	766.0	75.9	24.4	50	e.			2		2			0	0	fair	Delord.
Saida			29.97	761.3															Pérès.
Tebessa			30.08	764.1	68.0	20.0	55	se.			3		3			0	0	pretty fair	St. Martin.
Geriville					68.4	20.2	34	se.			0		0			0	0	clear	Forfert.
Laghouat			30.08	764.0	72.7	22.6	25	n.			2		1			0	0	very fair	Abraham.
Biskra			30.06	763.6	79.2	26.2	40	e.			3		3			0	0	pretty fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.23	767.8	53.0	11.7	89	sw.	7	3.1			10 n			0.014	0.4	showery	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.95	760.7	30.04	763.0	48.8	9.3	97	sse.	2	0.9			7			0.06	1.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.97	761.3	30.50	775.6	54.1	12.3	49	se.			2		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.55	750.5	30.34	770.5	46.8	8.2	60	wsw.	17.4	7.8			10			0.016	0.4		Dr. Wierzbiski
Eperies	29.46	748.2	30.35	771.0	48.9	9.4	59	calm			0	cs	8 s			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.95	735.3	30.42	772.7	48.9	9.4	66	nw.			3		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	29.16	740.7	30.54	775.8	46.6	8.1	72	nw.			2		7			0	0		The Staff.
Lemberg	29.27	743.5	30.28	769.1	48.7	9.3	53	w.			5		9			0.024	0.6		Dr. T. Stanecki.
Pola	30.35	770.8	30.46	773.6	59.0	15.0	61	wnw.			4		7			0	0		I. R. Hydrographic Office.
Szathmar	29.93	760.1	30.40	772.2	47.7	8.7	50	n.			2		7			0	0		Joseph Midlinszky, S. J
Szegedin	30.15	765.9	30.44	773.2	51.4	10.8	56	e.			1		6			0	0		Karl Stricel.
Trieste	30.41	772.3	30.50	774.8	59.4	15.2	41	nw.			1		0			0	0		Royal Academy.
Vienna	29.78	756.3	30.51	774.9	50.7	10.4	53	w.			3		3			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.21	767.3	30.31	769.9	67.0	19.4	53	sw.	10	4.5			0			0	0	blue sky	W. Boswell.
Armagh, Observatory	30.29?	769.4?	30.25?	767.8?	59.4	15.2	85	sw.	6	2.7			4					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			30.52	775.2	55.1	12.8	98	w.	13	5.8			10					foggy	John Harnup.
Bolton, Sharples	29.96	761.0	30.50	774.7	55.2	12.9	98	w.	1	0.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	30.06	763.5	30.46	773.7	62.0	16.7	79	sw.			2		9			0	0	overcast	McLandsborough & Preston.
Cardington	30.41	772.4	30.52	775.2	56.2	13.4	64	nw.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	30.34	770.6	30.52	775.2	58.5	14.7	86	sw.			1		10					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.31	769.9	30.54	775.7	58.0	14.4	88	ese.			1		10					overcast	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	96.0	35.6	20	calm			0							blue sky	C. Stares, A.H.O.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	82.0	27.8	87	s.			3		3					raining	J. W. Smith.
Galway, Queen's College	30.47	773.9	30.50	774.7	59	15.0	94	w.			1		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.93	760.2	29.98	761.5	66.5	19.2	80	nw.			3		10					gloomy	Sgt. F. Norris, A.H.O.
Glasgow, Observatory	30.27	768.8	30.47	773.9	55.6	13.1	84	wsw.			4		10 k					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.35	770.9	30.52	775.2	57.7	14.3	91	sw.			1		10					foggy	The Staff.
Guernsey	30.24	768.1	30.54	775.7	58.0	14.4	76	ese.			1		10					overcast	A. Collenette, F. M. S
Kew, Observatory	30.49	774.4	30.52	775.2	58.7	14.8	84	w.	3	1.3			10					misty	The Staff.
Leicester, Museum	30.23	767.8	30.48	774.2	63.1	17.3	82	w.			1		6					overcast	J. C. Smith.
Malta, Mediterranean	30.13	765.3	30.20	767.1	72.0	22.2	72	ne.			2		4			0	0	d. clouds	Corpl. Keene, A. H. O.
Nassau, Bahamas	29.96	761.0	30.01	762.2	81.0	27.2	72	ne.			4		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	30.00	762.0	30.52	775.2	59.0	15.0	94	nw.			1		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.29	769.4	30.52	775.2	59.2	15.1	91	calm			0		10					overcast	The Staff.
Plymouth	30.45	773.4	30.52	775.2	60.1	15.6	88	ene.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.12	765.0	30.22	767.6	54	12.2	90						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.17	766.3	30.24	768.1	64.2	17.9	67	n.			3		7			blank	blank	d. clouds	W. H. Lyne.
Sheffield	30.19	766.8	30.46	773.7	66.9	19.4	63	w.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.46	773.7	30.49	774.4	58.1	14.5	80	w.			1		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.51	774.9	56.4	13.6	94	wsw.	11	4.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					59.8	15.4	88	n.			0.5		10					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.47	773.9	30.54	775.7	62	16.7	83	se.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	30.50	774.7	30.52	775.2	57.9	14.4	94	ssw.	9	4.0			3					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.87	758.7	30.26	768.6	71.6	22.0	64	ne.	18.6	8.3		5 ck	0	w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.95	760.7	29.99	761.7	34.0	1.1		calm	0	0		2 cs	0	sw.		0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.31	769.9	30.35	770.9	47	8.3	87	sw.	5	2.2		2 c	0	sw.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769.1	30.35	770.9	33	0.6	88	sw.	3	1.3		8 ck	2 k	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	30.10	764.5	30.29	769.4	46.1	7.8	88	nw.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.27	768.8	30.32	770.1	37.0	2.8		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T*																			Alex. Taylor.
Father Point, Quebec*	30.26	768.6	30.28	769.1	42	5.6	89	w.	12	5.4		0	2 ks		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.74	730.0	29.56	750.8	47	8.3	100	w.	6	2.7			10 n			0.21	5.3	misty	James Stewart.
Fredericton, N. B	30.32	770.1	30.39	771.9	32.0	0.0	90	nw.	1	0.4		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.23	767.8	30.28	769.1	46	7.8	71	calm	0	0		5 c	0			0	0	fair	J. Chipman Seeley
Granton, Ontario	29.16	740.7	30.28	769.1	45.0	7.2	100	se.	2	0.9			10			0	0	gloomy	Jas. Grant.
Halifax, N. S*	30.26	768.6	30.40	772.1	38	3.3	92	nw.	2	0.9		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.87	758.7	30.26	768.6	41.7	5.4	87	ne.			1	5 ck	0	nw.		0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.98	761.5	30.33	770.4	44	6.7	89	ne.	1	0.4		8 c	0	e.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.38	771.6	30.42	772.7	46.0	7.8	80	sw.			1					0	0		C. H. Rigby.
London, Ontario	29.35	745.5	30.27	768.8	42.5	5.8	100	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.66	702.6	29.95	760.7	42	5.6	89												John Ewart.
Minnedosa, N. W. T	27.69	703.3	29.57	751.1	43	6.1	93	nw.	16	7.2			10 n		nw.	0.10	2.5	light rain	Rev. J. M. Wellwood.
Montreal, Quebec*	30.12	765.0	30.34	770.6	44	6.7	89	w.	2	0.9			10 ks		sw.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.09	764.3	30.32	770.1	32.5	0.3	99	e.					fg.			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.56	750.8	30.27	768.8	39	3.9	100	se.	4	1.8		hz.	2 ks		se.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.58	751.3	30.34	770.6	38.7	3.7	90	calm			0		fg.			0	0	dense fog	Wm. O'Connor, M.A.
Port Arthur	29.01	736.8	29.70	754.4	52	11.1	96	se.	4	1.8			10 n			0.19	4.8	light rain	W. P. Cooke.
Port Dover, Ontario	29.57	751.1	30.28	769.1	43	6.1	92	n.	2	0.9		10 c	0	s.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.59	751.6	30.24	768.1	52	11.1	93	e.	8	3.6		8 ck	0	nw.		0	0	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.49	698.2	29.77	756.1	39	3.9	86	w.	10	4.5			10 n		calm	0.07	1.8	light rain	Leslie Gordon.
Quebec, Quebec*	29.98	761.5	30.35	770.9	35	1.7	92	s.	5	2.2		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.83	757.7	30.32	770.1	31	— 0.6	88	calm	0	0			fg			0	0	dense fog	W. H. McIntyre.
St. Andrews, N. B	30.30	769.6	30.35	770.9	39	3.9	90	calm	0	0		0	0			0	0	clear	
St. John, N. B	30.22	767.6	30.37	771.4	37.8	3.2	93	w.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	30.19	766.8	30.44	773.2	47	8.3	85	w.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.39	772.0	41.0	5.0		n.			2								The Commandant.
Saugeen, Ontario*	29.51	749.5	30.24	768.1	42	5.6	93	se.	10	4.5			10 s			0	0	cloudy	
Stratford, Ontario	28.96	735.6	30.28	769.1	41.0	5.0	97	calm	0	0			10 s			0	0	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrument. error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
S. W. Point, Anticosti	30.17	766.3	30.21	767.3	42	5.6	89	se.			4	2 c	2 s	nw.	nw.	0	0	clear	Miss Grace Pope.
Sydney, C. B.	30.34	770.6	30.40	772.1	35	1.7	89	calm	0	0		0	0			0	0	clear	A. C. H.n, C. E.
Toronto, Ontario*	29.93	760.2	30.33	770.4	41	5.0	100	calm	0	0		0	fg			0	0	foggy	Magnetic Observatory.
Woodstock, Ontario	29.23	742.4	30.33	770.4	38.7	3.7	95					9 cs	0	se.		0	0	foggy	Prof. N Wolverton, M.A.
Yarmouth, N. S*	30.33	770.4	30.39	771.9	42	5.6	83	e.	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	63.5	17.5	97	sw.	13.9	6.2		0	9 n			0	0	fine	I. Garfelt.
Springbok Fontein																			J. T. Eustace
Chilian.																			
Coquimbo	30.05	763.2	30.13	765.2	58.1	14.5	90	s.			1	10						cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.61	752.0	29.71	754.7	48.9	9.4	92	e.			2	0	2 s		e.	0	0		Federico Köhling.
Punta Caldera	30.03	762.7	30.11	764.9	57.2	14.0	85	sw.			1	8 c	0	sw.				fair	Manuel Tobar.
Punta Corona	30.09	764.3	30.28	769.1				nw.			1	0	2 k		e.	0.047	1.2	cloudy	Francisco Alvarado.
Valparaiso	29.91	759.7	30.05	763.3	58.5	14.7	88	s.			1	0	0					fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.39	644.8																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.06	763.6	30.09	764.2	61.7	16.5	86	e.	1.6	0.7		2 ck	0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.04	762.0	30.08	764.1	57.9	14.4	84	nw.	27	12			3						Oversergent Fischer.
Fanoe	30.24	768.2	30.26	768.7	56.8	13.8	88	wnw.			6		2						Overloerer Lauridsen.
Godthaab, Greenland	29.61	752.1	29.65	753.2	32.0	0.0	87	ene.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.65	753.0	29.69	754.2	9.7	—12.4		calm			0		7						
Stykkisholm, Iceland	29.60	75[illegible].9	29.65	753.0	45.0	7.2	73	s.			2		8						A. O. Thorlacius.
Thorshavn	29.86	758.4	29.88	759.0	52.3	11.3	100	wsw.	29	13			10					raining	Overloerer Bergh.
Vestervig	30.08	764.0	30.17	766.3	55.6	13.1	88	w.			6		9					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.91	759.8			86.4	30.2		ne.	4.0	1.8		1 ck				0	0		Albert Ismailun.
French.																			
Agen, Normal School	29.82	757.4	30.47	773.9	63.3	17.4	61	se.			1					0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.96	760.9	30.51	774.9	54.7	12.6	93	n.			1		5		s.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	30.38	771.7	30.46	773.7	64.0	17.8	49	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.98	761.6	30.55	775.9	55.8	13.2	43	se.			1		5 kn		ese.	0	0	cloudy	M. Saillard, Director
Beauvais, Normal School	30.29	769.4	30.56	776.3	57.4	14.1	69	ene.			1		5		ene.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.54?	750.2?	30.41?	772.5?	45.9	7.7	89	e.			1		1		nnw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	30.14	765.6	30.41	772.3	58.6	14.8	57	e.			1		mist			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.96	761.0	30.52	775.2	57.2	14	47	e.			1		8		e.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.26	768.5	30.50	774.6	59.0	15.0	84	ne.			1		9		ne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.44	773.1	30.51	775.0	62.2	16.8	63	se.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	30.23	767.8	30.56	776.1	55.9	13.3	68	n.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	30.08	763.9	30.59	777.0	57.9	14.4	60	nne.			1		2			0	0	¼ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	29.12	739.7	30.50	774.6	55.4	13.0	55	nw.			1	1 c		ne.		0	0		M. Allnard, Director.
Cluny, Normal School	29.69	754.2	30.58	776.7	53.2	11.8	59	ne.			1				ne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.71	754.5	30.58	776.6	54.3	12.4	71	e.			1	5 cs		e.	e.	0	0	fair	Dr. Coulet, Director.
Gap, Normal School	27.87	707.9	30.36	771.1	58.8	14.9	38	n.			6		0			0	0		M. Jarach, Director.
Grésque, du Rhone	29.30	744.2	30.42	772.6	65.7	18.7	42	se.			4		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.73	755.1	30.50	774.8	57.2	14	57	sw.			1		k		e.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.85	732.9	30.47	773.8	55.4	13	77	ne.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.20	767.1	30.48	774.1	57.2	14	65	e.			2		1		e.	0	0	clear	M. Ollitrault, Director
Lescar, Normal School	29.75	755.7	30.32	770.1	59.9	15.5	55	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.41	772.3	30.51	774.9	61.9	16.6	53	e.			2		5	e.		0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.45	748.1	30.54	775.6	53.6	12.0	61	e.			1		0			0	0	misty	M. André, Director
Mans, Normal School	30.22	767.7	30.50	774.7	56.3	13.5	79	se.			1		2		se.	0	0	slightly cl'dy	M. Richard, Director
Marseille, Observatory	30.13	765.4	30.41	772.3	68.4	20.2	54	e.			1–2		1		e.	0	0		M. Stephan, Director.
Montlouis	25.10	637.5	29.94	760.5	38.3	3.5	81	e.	3.8	1.7			10		se.	0	0	clear	M. Cave for Dr. Fines.
Montpellier, Normal School	30.30	769.6	30.41	772.5	64.4	18	69	nnw.			6		1	s.		0	0		M. Gelzin, Director.
Nancy	29.78	756.4	30.58	776.8	51.4	10.8	58	nw.			1	ck		e.		0	0		M. Hasse, Director.
Nantes, Observatory	30.37	771.4	30.54	775.6	58.3	14.6	55	ne.			1	2 c		ne.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.34	770.7	30.46	773.6	53.6	12.0	89	sw.	5.6	2.5			10		ese.	0.350	8.9		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	541.9			23.0	— 5.0		s.			4		1		s.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.42	747.2	30.49	774.5	59.0	15	52	e.			1		0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.53	648.5			33.8	1.0	93	se.			2		2			0.004	0.1		M. Allnard.
Rochefort, Naval Obs'y	30.40	772.2	30.43	772.9	60.4	15.8	61	e.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.22	767.7	30.45	773.3	57.4	14.1	50	ne.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.21	716.5	30.35	770.8	58.3	14.6	72	w.			2		1 k			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.56	776.3	30.61	777.5	59.4	15.2	87	s.			1		0			0	0	clear	M. Mouillot, Dir.
St Lô	30.41	772.3	30.55	776.0	59.5	15.3	66	se.			1		5		se.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.41	772.5	30.58	776.7	56.8	13.8	51	s.			1		1	e.		0	0		M. Renou, Director.
Toulouse, Observatory	29.70	754.3	30.43	772.9	61.5	16.4	53	sse.			6		2	se.		0	0	slightly cl'dy	M. Bailland, Director.
Tours	30.34	770.5	30.51	775.0	56.1	13.4	50	n.			1		1			0	0	clear	M. de Tastes.
Versailles, Observatory	30.07	763.8	30.56	776.3	56.8	13.8	57	ne.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.22	767.5	30.37	771.3	59.2	15.1	65	s.	11.9	5.3		1 ck				0	0		M. Cartier, Director.
German.																			
Ansbach	29.09	738.8	30.57	776.5	49.6	9.8	55	w.			2		7	w.		0	0		Prof. Jnedt.
Bamberg	29.67	753.6	30.53	775.4	50.9	10.5	63	w.			1		7 s			0	0		Prof. Dr. Hoh.
Berlin	30.17	766.2	30.31	769.9	50.7	10.4	98	w.			2		10			0.039	1.0		Dr. Lensch.
Breslau	29.78	756.3	30.31	769.9	45.5	7.5	82	wsw.			2		10			0.028	0.7	foggy	Royal University Obs'y.
Carlsruhe	30.11	764.7	30.58	776.8	51.4	10.8	54	sw.			1		4	ne.		0	0		Albert Senz.
Cassel	29.76	755.8	30.47	773.9	49.1	9.5	89	s.			4		8	s.		0.008	0.2		Dr. H. Möhl.
Frankfort-on-the-Main	30.18	766.6	30.56	776.2	52.0	11.1	64	w.			1		10			0	0		Physical Society.
Friedrichshafen	29.11	739.3	30.57	776.5	46.4	8.0	81	sw.			2		1	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.23	767.9	30.32	770.2	59.0	15.0	82	wsw.			6		8			0.110	2.8		E. Preiler.
Kiel	30.25	768.4	30.27	768.8	56.8	13.8	87	w.			5		10			0.126	3.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	30.00	762.0	30.43	773.0	47.5	8.6	92	n.			3		10	w.		0.043	1.1	raining	H. Leppig, Asst.
Magdeburg	30.17	766.3	30.37	771.3	53.2	11.8	88	n.			4		10	w.		0.039	1.0		Weather Observatory.
Memel	29.93	760.3	29.98	761.5	53.8	12.1	88	nw.			5		10 ks						Issermann.
Munich	28.68	728.5	30.58	776.7	46.2	7.9	61	w.			1		4			0	0		Central Station.
Neufahrwasser	29.95	760.6	29.96	761.0	56.3	13.5	86	w.			3		10			0.039	1.0		A. Lothes.
Neustadt, Palatinate	30.01	762.3	30.55	776.0	53.1	11.7	55	sw.			3		8	nnw.		0	0		Dicknether.
Stuttgart	29.60	751.7	30.51	774.9	51.4	10.8	51	s.			1		5	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.15	765.7	30.17	766.4	54.9	12.7	91	wnw.			5		10			0.051	1.3		Profs. Brandes & Reimer.
Greek.																			
Athens	29.84	757.9	30.21	767.4	74.1	23.4		ne.			1.5		6 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.74	755.3	29.79	756.6	82.4	28.0	69	ssw.	25.0	11.2			0			0	0	blue sky	
Deesa	29.30	744.2	29.76	756.0	91.7	33.2	36	ssw.	3.0	1.3			3	ssw.		0	0	d. clouds	
Bombay	29.78	756.5	29.82	757.5	83.4	28.6	79	nw.	8.0	3.6			4	ssw.		0.74	18.8	d. clouds	
Poona, Yarrowda	28.00	711.1	29.88	758.9	70.8	21.6	89	nw.	11.0	4.9			10			0.93	23.6	overcast	
Trichinopoly	29.57	751.0	29.84	758.0	89.5	31.9	53	calm	0	0			4			0	0	d. clouds	
Bellary	28.31	719.1	29.76	755.9	86.0	30.0	49	se.	6.0	2.7			9			0	0	gloomy	
Belgaum	27.30	693.4	29.85	758.1	73.5	23.1	85	s.	7.0	3.1			8	s.	n.	0.14	3.6	d. clouds	
Lahore	29.04	737.5	29.77	759.2	84.0	28.9	47	calm	0	0			0			0	0	blue sky	
Roorkee	28.90	734.0	29.79	756.6	84.8	29.3	38	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Agra	29.23	742.4	29.78	756.4	92.7	33.7	22	n.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.75	730.2	29.78	756.4	85.2	29.6	57	calm	0	0			4		e.	0.44	11.2	d. clouds	
Jubbulpore	28.49	723.6	29.84	758.0	79.8	26.6	70	nw.	6.0	2.7			7		nw.	0	0	d. clouds	
Lucknow	29.40	746.7	29.77	756.1	86.1	30.1	40	calm	0	0			0			0	0	blue sky	
Allahabad	29.49	749.1	29.80	757.0	82.7	28.2	63	calm	0	0			10			0	0	gloomy	
Patna	29.59	751.6	29.77	756.2	85.0	29.4	62	calm	1.2	0.5			2	nw.	nw.	0	0		
Hazaribagh	27.80	706.2	29.80	756.8	82.3	27.9	48	nnw.	5.4	2.4			0			0	0	blue sky	
Cuttack	29.71	754.6	29.79	75[illegible].7	85.0	29.4	68	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.76	755.8	29.78	756.3	84.5	29.2	71	nnw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.64	752.8	29.76	755.8	83.2	28.4	73	calm	0	0			0			0	0	blue sky	
Chittagong	29.68	754.0	29.77	756.2	83.7	28.7	73	nw.	1.5	0.7			2			0	0	d. clouds	
Sibsagar	29.47	748.5	29.80	757.0	81.0	27.2	83	ne.	2.0	0.9			2			0	0	d. clouds	
Jeypore	28.37	720.5	29.78	756.5	89.3	31.8	29	ssw.	2.5	1.1			4		nw.	0	0	d. clouds	
Zanzibar	30.04	763.0			80.2	26.8	75	nnw.	4.2	1.9			6		se.	0	0	d. clouds	
ITALIAN.																			
Udine	30.08	764.0	30.48	774.3	57.2	14.0	51	calm	0	0			0			0	0		Prof. Giovanni Olodig.
Milan	29.99	761.7	30.50	774.8	58.6	14.8	44	sw.	3.8	1.7			0			0	0		Prof. G. V. Schiapparelli
Padua	30.39	771.8	30.50	774.6	58.1	14.5	53	sw.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.58	751.4	30.49	774.4	56.1	13.4	58	ne.	1.8	0.8			1			0	0		Prof. F. F. Denza.
Genoa	30.28	769.0	30.47	773.9	59.9	15.5	49	n.	8.1	3.6			0			0.004	0.1		Prof. G. M. Garibaldi.
Mondovi	28.56	725.5	30.48	774.2	52.7	11.5	57	w.			6		1			0	0		Prof. D. C. Bruno.
Pesaro	30.45	773.5	30.50	774.7	59.2	15.1	49	ne.	9.8	4.4			1	ne.		0.051	1.3		Prof. Luigi Guidi.
Florence	30.18	766.5	30.43	772.9	64.4	18.0	38	n.			2					0	0		Prof. Costantino Pitto
Leghorn	30.28	769.2	30.37	771.4	64.2	17.9	40	ene.	8.1	3.6			0			0	0		Prof. P. Monte.
Rome	30.19	766.7	30.36	771.1	67.3	19.6	34	n.	0.7	0.3			0			0	0		Prof. P. Tacchini.
Lecce	30.08	764.0	30.33	770.4	63.7	17.6	54	nne	17.4	7.8			5	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.44	747.7	30.32	770.0	66.9	19.4	63	wnw.	4.3	1.9			2	w.		0	0		Prof. D. Conti.
Cagliari	30.04	762.9	30.22	767.7	66.2	19.0	72	e.			2		9			0.866	22.0		Prof. A. Pacinotti.
Palermo	30.03	762.7	30.28	769.0	70.7	21.5	46	ne.	4.9	2.2			3			0	0		Prof. G. Cacciatore.
Syracuse	30.20	767.0	30.24	768.1	69.8	21.0	60	ne.	23.7	10.6			8	ne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.83	757.7	30.36	771.0	64.6	18.1	57	ene.	5.6	2.5			1	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.22	742.3	29.26	743.2	71.1	21.7	95	se.			4		10k;n		sw.	0.689	17.5	cloudy	H. Hattori.
Awomori	29.28	743.7	29.31	744.5	67.0	19.4	82	e.	7.0	3.1			10 n			0.380	9.6	light rain	K. Ogawa.
Hamamatsu	29.67	753.6	29.77	756.1	67.2	19.6	86	w.			4	2 ck	0	w.		0.256	6.5	clear	Sekigawa & Yamazaki.
Kagoshima	29.90	759.5	29.91	759.8	66.0	18.9	77	calm			0	0	0			0	0	clear	G. Miyanohara.
Kanazawa	29.03	752.6	29.73	755.1	64.1	17.8	88	w.	16.2	7.2			10ks;s		se	1.298	33.0	overcast	S. Endo.
Kioto	29.65	753.0	29.82	757.4	66.0	18.9	76	wnw.	1.0	0.4			10s;ks		nw.	1.575	40.0	cloudy	M. Tojima.
Kochi	29.83	757.8	29.86	758.3	69.9	21.1	61	nw.	18.1	8.0		2 ck	0			0.03	0.8	clear	K. Kusunose.
Miasaka	29.88	759.0	29.91	759.7	62.9	17.2	90	nne.			1	0	0			0	0	clear	K. Masusaki
Miyako	29.32	744.6	29.43	747.4	68.4	20.2	98	se.	19.2	8.6			10 n			2.511	63.8	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.77	756.1	29.97	761.2	64.4	18.0	78	ne.	3.9	1.7		0	0			0.005	0.1	clear	S. Takehayasu.
Niigata	29.38	746.2	29.42	747.2	71.3	21.8	66	w.	45.3	20.2		0	5ks;s		w.	0.020	0.5	½ cloudy	Satoo & Tomikawa.
Nobiru	29.41	747.0	29.43	747.5	72.7	22.6	79	s.	55.6	24.9			10ck;s		s.	0.695	17.6	covered	Yoshino & Midzushina.
Numazu	29.05	753.1	29.69	754.1	72.2	22.3	73	ssw.			7	1 ck	4 s;ks			1.000	25.4	fair	R. Kaneda.
Osaka	29.80	756.9	29.82	757.3	63.9	17.7	89	ene.	1.7	0.7		0	4 s		nw.	2.013	51.1	fair	H. Omura.
Sakai	29.90	759.5	29.91	759.7	66.0	19.2	59	n.			2	0	3 ks		n.	0.775	19.7	fair	Yamawchi & Sakamoto.
Shimonoseki	29.80	757.0	29.95	760.7	64.4	18.0	80	calm			0	0	1 s		nne.	0.055	1.4	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.54	750.2	29.61	752.0	72.5	22.5	66	ssw.	25.1	11.2		2 cs	1 ks	w.	w.	0.165	4.2	fair	The Staff.
Wakayama	29.77	756.2	29.82	757.5	67.6	19.8	73	nw.	2.9	1.3		0	0			1.376	34.9	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	30.02	762.5	30.21	767.3	71.0	21.7	54	ese.	19.0	8.5			10 ks		se.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.37	619.0	30.02	762.5	60.4	15.8	92	wsw.	0.9	0.4		2 c	5 k;s			0.016	0.4	½ cloudy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	77.5	25.3	88	ene.	0.9	0.4		7 cs	1 ks	sw.		0.079	2.0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.52	775.2	30.52	775.2	59.0	15.0		wsw.			3					0.016	0.4		
Groningen	30.36	771.2	30.42	772.6	56.8	13.8		nw.			1					0.051	1.3		
Helder	30.44	773.2	30.44	773.2	56.8	13.8		w.			2					0	0		
Hellevoetsluis	30.50	774.6	30.50	774.6	57.9	14.4	88	wsw.			3					0	0		
Utrecht	30.45	773.3	30.49	774.5	56.7	13.7	95	sw.			2		10			0	0	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.93	760.2			75.4	24.1	94	ne.	0	0			7			0.890	22.6		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.00	761.9	30.06	761.5	53.6	12.0	98	wsw.	16	7			10			0.866	22.0	raining	
Brono	29.42	747.2	29.46	748.2	45.5	7.5	76	wnw.			6.7		10			0.583	14.8	light sleet	
Christiania	29.65	753.0	29.79	756.6	66.0	19.2	51	wnw.	27	12			4			0.157	4.0		
Gjæsvær	29.00	736.5	29.02	737.1	34.5	1.4		sse.			7		7					raining	
Lodingen	29.11	739.3	29.15	740.5	39.2	4.0	78	wsw.			4.6		10			0.583	14.8		
PORTUGUESE.																			
Angra, Azores					66.9	19.4	87	e.	10.5	4.7			3			0.079	2.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.88	759.0	29.97	761.2	70.2	21.2	46	w.	2.5	1.1			8		n.	0.039	1.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.62	752.4	29.95	760.8	61.5	16.4	42	ne.	20.6	9.2			7			0	0		The Staff
Ponta Delgada, Azores	30.19	766.7	30.26	768.5	68.7	20.4	61	ene.	9.8	4.4			4			0	0		
Saint Paul de Loando	29.70	754.4	29.90	759.5	74.5	23.6	95	w.	1.3	0.6			10			0	0		
San Salvador, Congo	28.20	716.3	30.05	763.2	75.4	24.1	79	w.			2		10			0.630	16.0		
Serra da Estrella	25.25	641.3	30.02	762.5	44.2	6.8	62	ese.	18.1	8.1			1			0	0		
RUSSIAN.																			
Akmolinski	28.89	733.8	29.96	760.9	55.8	13.2	48	sw.	16	7		0	7 k			0	0		Major K. Lasarew.
Archangel	29.13	740.0	29.15	740.5	28.0	— 2.2	79	e.	9	4			10			0	0		Capt. Sseliwerstow
Ashurada	29.97	761.1	29.87	758.7	78.8	26.0	83	wsw.	18	8		0	2 k			0	0		
Astrakhan	30.10	764.5	30.02	762.6	57.0	13.9	81	n.	11	5			10 s;n			inap.	inap.		Capt. Wisganow.
Baku	29.93	760.2	29.88	759.0	71.4	21.9	68	n.	45	20		3 cs	0			0	0		
Barnaul	29.07	753.6	30.18	766.5	45.7	7.6	60	sw.	4	2			9			0.118	3.0		Meteorological Obs'y
Bieloserk	28.69	728.7	29.16	740.6	35.1	1.7	85	sw.	9	4			9 s			0.071	1.8		
Dorpat	29.30	744.3	29.54	750.4	52.3	11.3	79	wnw.	11	5		0	3 k			0.067	1.7		Observatory.
Ekaterinburg	28.69	728.8	29.68	753.8	34.3	1.3	40	n.	27	12		3 cs	0			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.89	759.1	30.35	771.0	39.2	4.0	59	wnw.	9	4			9 kn			inap.	inap.		
Irkutsk	28.71	729.3	30.41	772.3	40.3	4.6	84	calm			0		0			0	0		
Kasalinsk					69.4	20.8	21	se.	13	6		0	0						
Kasan	29.56	750.9	29.84	758.0	35.8	2.1	43	sw.	13	6			10 k			0	0		Observatory.
Kem	29.07	738.3	29.12	739.6	32.2	0.1	85	e.	18	8			10 n			0.079	2.0		
Kertch	30.24	768.1	30.26	768.7	48.2	9.0	66	n.	9	4			10 n			0	0		Lagorio & Sastyres.
Kieff	29.55	750.5	30.20	767.1	45.3	7.4	50	w.	11	5		cs	6 ks			0.016	0.4		Observatory.
Koslov	29.50	749.3	30.03	762.7	32.5	0.3	71	wsw.	18	8			10 s			blank	blank		
Libau	29.78	756.4	29.80	757.0	55.2	12.9	88	w.	9	4			9			0.051	1.3		E. Quaas.
Lugan	29.96	761.0	30.17	766.3	43.2	6.2	49	wnw.	22	10			4			0.004	0.1		Meteorological Obs'y.
Moscow	29.22	742.1	29.71	754.7	31.1	— 0.5	72	sw.	13	6			10 n					snowing	Meteorological Obs'y
Nikolaiev	30.31	769.8	30.38	771.6	48.6	9.2	55	n.	18	8			9 kn			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.02	762.5	30.11	764.7	41.0	5.0	86	calm	0	0			10 n						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.94	760.5	30.08	764.1	63.7	17.6	81	calm	0	0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.67	753.5	30.00	762.1	74.5	23.6	10	e.	1.1	0.5		0	0			0	0		
Petrozavodsk	28.87	733.3	29.07	738.3	38.3	3.5	80	nw.	22	10		8 ck	6			0.028	0.7		Dr. Bergmann.
Pinsk	29.64	752.8	30.15	765.7	44.2	6.8	61	sw.	34	15			10 n					raining	
Poti	29.96	761.0	29.99	761.8	73.9	23.3	91	ssw.	9	4			10 n			0.079	2.0		
St. Petersburg	29.30	744.3	29.33	744.9	47.7	8.7	72	wnw.	13	6		0	1 k			0.157	4.0		Central Physical Obs'y.
Samarkand	27.62	701.5	30.04	763.0	64.6	18.1	40	se.	3.4	1.5		0	0			0	0		
Semipalatinsk	29.64	752.9	30.30	769.7	54.5	12.5	44	sse.	4	2			7			0	0		Major Lasarew
Sevastopol	30.08	763.9	30.29	769.4	52.3	11.3	44	ne.	27	12		0	5 s			0	0		
Staroi Bykhov	29.40	746.7	29.97	761.1	42.1	5.6	64	sw.	34	15			10			0	0		
Tashkend Laboratory	28.42	721.8	30.05	763.2	68.4	20.2	33	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.54	724.8	29.90	759.4	73.8	23.2	39	nw.	38	17		0	3 s			0	0		Physical Observatory.
Vernoe	27.69	703.2	30.20	767.0	53.6	12.0	49	e.	2	1		0	0			0	0		
Viatka	28.98	736.1	29.63	752.6	29.1	— 1.6	64	sw.	9	4			10			0	0		
Warsaw	29.71	754.5	30.14	765.5	43.0	6.1	95	wsw.	22	10			10 n			0.114	2.9	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.72	754.8	30.01	762.3	39.9	4.4	72	ssw.	11	5			10			0.004	0.1	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.17	766.3	30.28	769.0	65.8	18.8	74	ne.	49.0	21.9		0	7			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.28	769.2	30.34	770.7	64.0	17.8	56	e.	0.7	0.3		2	3	s.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.25	692.2	30.30	769.5	47.7	8.7	64	e.	13.0	5.8		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.91	709.0	30.19	766.7	50.2	10.1	76	e.	13.4	6.0			10			inap.	inap.	covered	The Staff.
Murcia, Met. Obs'y	29.93	760.2	30.07	763.8	63.5	17.5	79	ene.	9.8	4.5		3	6	w.		0.209	5.3	rainy	Olayo Diaz, Director.
Oviedo	29.54	750.3	30.30	769.6	51.8	11.0	78	nw.	10.7	4.8		6 n	6 n	s.	s.	0	0	cloudy	R. Gil Villanueva, Dir.
Santiago, Met. Obs'y	29.17	740.9	30.06	763.5	60.1	15.6	49	n.	20.6	9.2			2			0	0	light clouds	
Sub-series.																			
Havana, Cuba	29.98	761.5	30.05	763.2	77.1	25.0	85	se.	1.1	0.5		0	2 sk		ene.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.1	29.95	760.6	77.0	25.0	93	ne.	2.2	1.0			10 n			0.059	1.5	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.80	757.0	29.90	759.5	55.0	12.8	100	n.	4.5	2.0			10		n.	1.97	50.2	raining	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.87	758.7	29.96	761.0	78.4	25.8	86	calm	0	0		0	0			0.008	0.2	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.22	742.2	29.26	743.2	39.2	4.0	77	w.			2		0			0	0		
Umea	29.36	745.7	29.41	747.0	44.1	6.7	70	wsw.			2		7			0	0		
Hernosand	29.47	748.5	29.52	749.8	52.5	11.4	61	sw.			2		2			0.161	4.1		
Stockholm	29.51	749.6	29.69	754.1	59.9	15.5	68	w.			4		1			0.047	1.2		
Wisby	29.74	755.3	29.80	756.8	54.3	12.4	89	w.			4		0			0.102	2.6		
Sub-series.																			
Upsala	29.55	750.6	29.64	752.8	56.5	13.6	79	w.	8.5	3.8			2	wnw.	nw.	0	0		H.H.Hildebrandesson
Swiss.																			
Geneva	29.10	739.0	30.54	775.7	48.9	9.4	70	n.			2		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			30.30	769.5	60.1	15.6	77	n.	18	8.0			8		n.	0	0		The Observatory.
Valona			30.36?	771.1?	65.3	18.5		nw			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.97	761.3	81.3	27.4	56	sw.			3		7 n		sw	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.01	686.0			65	18.3	58	n.			0.5		1 ks		w.	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.31	769.9	30.39	771.6	45	7.2	76	e.	3	1.3		0	fg.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.15	765.8	49	9.4	93	se.	6	2.7			10 n			0.09	2.3	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.94	760.5	31.0	— 0.6	74	e.	8	3.6		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.05	687.1	29.97	761.2	39	3.9	65	sw.	18	8.0		0	0			0.12	3.0	clear	B. O. Lenoir.
Atlanta, Georgia	29.08	738.6	30.28	769.1	60.5	15.8	100	e.	9	4.0			fg			0	0	dense fog	Edward A. Beals.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	50	10.0	86	n.	5	2.2		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.09	764.3	30.28	769.1	61.0	16.1	84	ne.	2	0.9			10 s		ne.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.31	769.9	30.36	771.1	54	12.2	80	n.	4	1.8		2 k	4 s;fg	e.	e.	0.01	0.3	fair	Geo. W. Feiger.
Barnegat City, New Jersey	30.28	769.1	30.30	769.6	56.8	13.8	64	ne.	17	7.6		1 k	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.23	717.0	29.85	758.2	51.0	10.6	74	nw.	17	7.6		5 k	4 s	nw.	nw.	0.02	0.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.12	688.8	30.03	762.7	42	5.6	53	calm	0	0			10 s		nw.	inap.	inap.	cloudy	Thomas Morgan.
Bismarck, Dakota	27.97	710.4	29.85	758.2	49	9.4	86	nw.	15	6.7			10 s		ne.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.30	769.6	30.34	770.6	53.0	11.7	90	ne.	17	7.6			10ks;s			0	0	cloudy	J. T. Liker.
Boise City, Idaho	27.27	692.6	30.13	765.3	35	1.7	89	ne.	2	0.9			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.22	767.6	30.38	771.6	38.5	3.6	100	calm	0	0			fg			0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.02	762.5	77.0	25.0	90	se.	2	0.9		5 c	2 s	se.	s.	0	0	fair	John McGlone.
Buffalo, New York	29.54	750.3	30.30	769.6	40.8	4.9	93	ne.	4	1.8		0	sk.			inap.	inap.	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.85	707.4	29.90	759.4	38.3	3.5	92	w.	9	4.0		0	2 s			0.17	4.3	clear	A. Schneider.
Cairo, Illinois	29.74	755.4	30.14	765.5	61.6	16.4	85	s.	3	1.3		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.91	759.7	30.11	764.8	55.5	13.1	100	w.	8	3.6			fg.			0.59	15.0	dense fog	O. D. Stewart.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	56.5	13.6	80	n.	23	10.3		0	0			0.07	1.8	clear	A. K. Alderson.
Cape May, New Jersey	30.28	769.1	30.31	769.9	54.0	12.2	66	ne.	12	5.4		0	0			0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.55	750.6	30.24	768.1	54	12.2	66	nw.	22	9.8		3 c	0	nw.		0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	72.5	22.5	87	n.	12	5.4		0	0			0.06	1.5	clear	G. W. Davis.
Charleston, S. Carolina	30.17	766.3	30.23	767.8	60.0	15.6	93	ne.	12	5.4		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.45	748.0	30.31	769.9	55.0	12.8	93	ne.	4	1.8		10 cs	fg.	ne.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.24	768.1	60.0	15.6	93	se.	3	1.3		1 k	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.89	606.8	29.91	759.7	37.1	2.8	82	n.	12	5.4			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.34	745.2	30.05	763.3	57.5	14.2	72	s.	8	3.6		5 ck	2 ks	w.	w.	0	0	fair	Wm. Norrington.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	52	11.1	86	n.	20	8.9		0	hz.			inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.58	751.3	30.24	768.1	55.0	12.8	80	se.	2	0.9		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.52	749.8	30.26	768.6	48.3	9.1	86	se.	6	2.7		1 c	0	w.		inap.	inap.	clear	J. B. Newlin.
Columbus, Ohio	29.38	746.2	30.24	768.1	48	8.9	86	e.	3	1.3		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.08	713.2	30.03	762.7	71.0	21.7	90	s.	13	5.8			10 s		s.	0	0	cloudy	C. E. King.
Custer, Fort, M. T.	26.79	680.5	30.03	762.7	32	0.0	81	w.	3	1.3		0	0			0.12	3.0	clear	T. Gibson.
Davenport, Iowa	29.28	743.7	29.94	760.5	61	16.1	84	sw.	9	4.0		4 cs	hz.	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	30.04	763.0	63	17.2	81	se.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.27	718.0	30.06	763.5	48.0	8.9	89	sw.	10	4.5			10 n			0.11	2.8	light rain	D. Moore.
Deadwood, Dakota	25.29	642.4	29.97	761.2	42.7	5.9	62	ne.	2	0.9			10 s			0.02	0.5	cloudy	F. Des Willson.
Delaware Breakwater, Del.	30.29	769.4	30.31	769.9	57	13.9	74	ne.	19	8.5		0	hz.			0	0	clear	F. W. Mixer.
Denver, Colorado	24.58	624.3	29.84	757.9	46.5	8.1	53	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.92	734.6	29.84	757.9	70	21.1	76	sw.	12	5.4		9 cs	0	w.		inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.48	748.8	30.19	766.8	50.1	10.1	93	se.	4	1.8		3 ck	0	se.		0	0	clear	E. R. Brace.
Dodge City, Kansas	27.25	692.1	29.88	758.9	65	18.3	84	se.	12	5.4			10 s		se.	inap.	inap.	cloudy	J. H. Bryce.
Dubuque, Iowa	29.20	741.7	29.92	760.0	60	15.6	76	s.	6	2.7		4 c;k	2 s	W;sw		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	28.91	734.3	29.67	753.6	55	12.8	93	ne.	4	1.8			10s;fg		ne.	1.27	32.3	cloudy	N. B. Conger.
Eastport, Maine	30.30	769.6	30.37	771.4	44.0	6.7	80	calm	0	0		3 c	hz.			0	0	dense haze	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	29.95	760.7	62	16.7	93	s.	12	5.4		0	5 s		s.	0	0	fair	J. C. Rickli.
El Paso, Texas	26.26	667.0	30.00	762.0	59.2	15.1	60	w.	8	3.6		4 cs	0	w.		0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.55	750.6	30.28	769.1	45	7.2	82	se.	4	1.8		4 c	0	nw.		0	0	fair	C. A. Shaw.
Escanaba, Michigan	29.29	744.0	29.96	761.0	53.0	11.7	93	se.	17	7.6			10 n		se.	1.10	27.9	heavy rain	George Heatcote.
Galveston, Texas	30.04	763.0	30.08	764.0	80	26.7	82	s.	8	3.6		2 cs	7 ks		sw.	0	0	cloudy	E. O'C. MacInerney
Grand Haven, Michigan	29.39	746.5	30.06	763.5	54.0	12.2	83	se.	13	5.8		0	9 s		sw.	0.02	0.5	cloudy	Wm. H. Fallon.

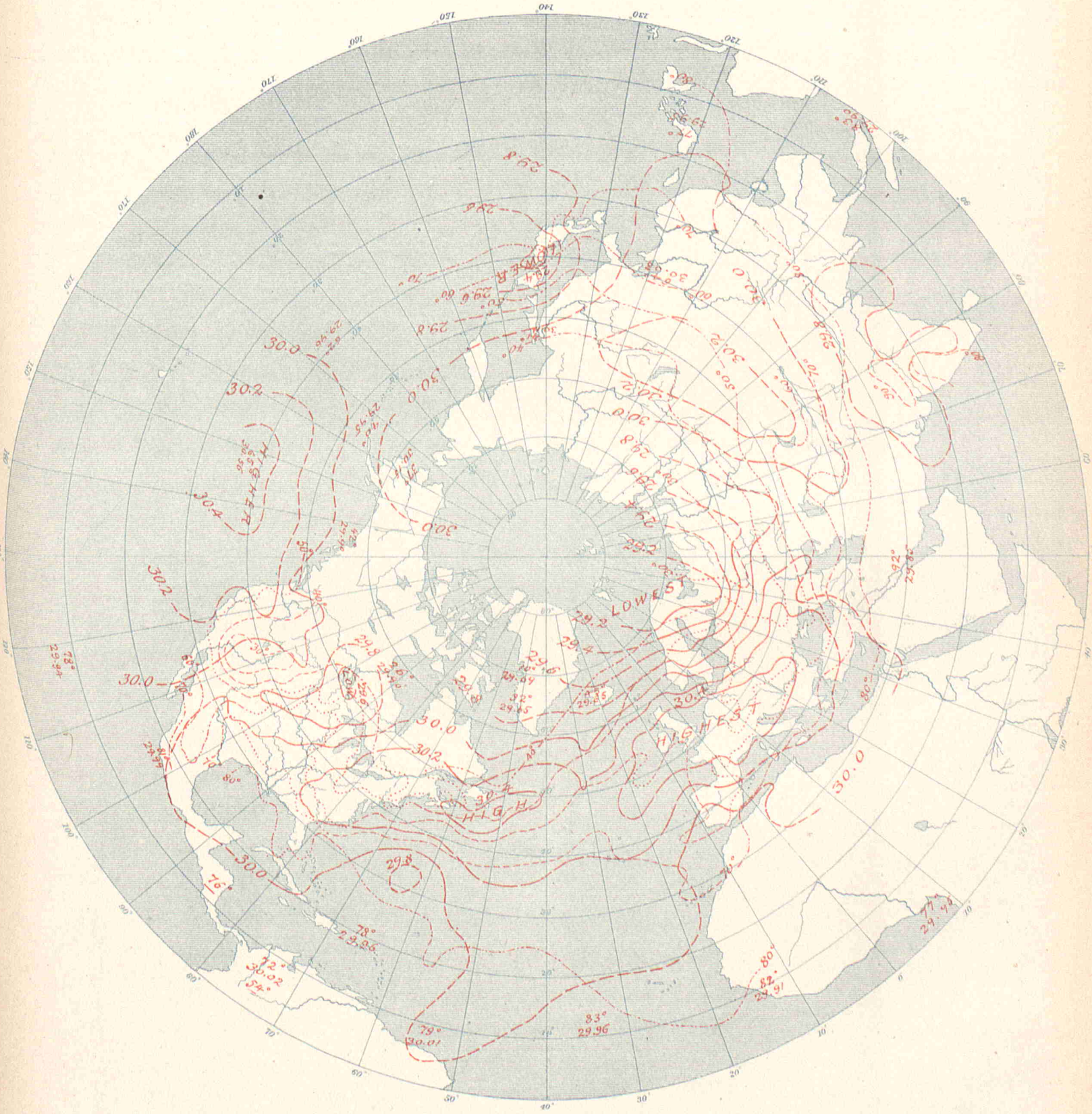
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.23	640.8	29.93	760.2	45.7	7.6	62	s.	4	1.8	.....	2 ck	0	sw.	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.25	768.3	30.26	768.6	61.5	16.4	87	n.	22	9.8	.....	3 k	0	n.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.73	653.5	30.03	762.7	39	3.9	65	sw.	4	1.8	.....	0	0	.....	.....	blank	blank	clear	T. H. Jones.
Huron, Dakota	28.32	719.3	29.75	755.6	51.9	11.1	84	nw.	24	10.7	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.37	746.0	30.17	766.3	53.6	12.0	76	s.	3	1.3	.....	2 cs	0	w.	.....	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.02	762.5	30.04	763.0	79.0	26.1	88	s.	10	4.5	.....	0	4 ks	.....	s.	inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	30.11	764.8	30.15	765.8	73.0	22.8	73	ne.	7	3.1	.....	2 k	0	ne.	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.32	744.7	29.99	761.7	61.0	16.1	87	se.	4	1.8	.....	1 k	0	w.	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	80	26.7	88	e	4	1.8	.....	hz.	4 k;ks	.....	ne.	0.21	5.3	dense haze	A. W. Browne.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	61.5	16.4	78	ne.	29	13.0	.....	0	3 k	.....	ne.	0.14	3.6	clear	Wesley Blake.
Knoxville, Tennessee	29.21	741.9	30.25	768.3	53.8	12.1	100	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.03	737.3	29.82	757.4	62	16.7	78	s.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light rain	S. C. Emery.
Leavenworth, Kansas	29.01	736.8	29.91	759.7	68	20.0	76	s.	3	1.3	.....	7 cs	0	w.	.....	0	0	fair	T. S. Outram.
Lewiston, Idaho	29.22	742.2	30.07	763.8	46.0	7.8	54	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.08	764.0	69.0	20.6	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.79	756.7	30.19	766.8	50	10.0	72	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.61	752.1	30.18	766.6	56	13.3	86	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.62	752.3	30.31	769.9	56	13.3	80	ne.	1	0.4	.....	.....	10 s	.....	ne.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.44	747.8	30.11	764.8	49.4	9.7	94	s.	16	7.2	.....	.....	10 n	.....	s.	0.18	4.6	heavy rain	D. B. Norton.
Macon, Fort, North Carolina	30.23	767.8	30.24	768.1	57.0	13.9	93	nw.	18	8.0	.....	0	2 s	.....	.....	0.01	0.3	clear	William Daly.
Maginnis, Fort, Montana	25.47	646.9	30.01	762.2	37	2.8	64	w.	10	4.5	.....	0	0	.....	.....	inap.	inap.	clear	F. Burke.
Marquette, Michigan	29.13	739.9	29.87	758.7	54.0	12.2	93	s.	16	7.2	.....	.....	10 n	.....	s.	0.94	23.9	light rain	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.11	764.8	69	20.6	57	e.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.21	741.9	29.97	761.2	57.2	14.0	80	s.	16	7.2	.....	9 cs	0	w.	.....	0	0	cloudy	W. Lins.
Mobile, Alabama	30.07	763.8	30.11	764.8	72	22.2	90	n.	2	0.9	.....	0	hz.	.....	.....	0	0	light haze	H. U. Jones.
Montgomery, Alabama	29.95	760.7	30.18	766.6	70	21.1	66	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.66	728.0	29.68	753.9	47	8.3	93	nw.	18	8.0	.....	.....	10 s	.....	nw.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.06	611.1	30.40	772.1	29.0	— 1.7	92	s	8	3.6	.....	0	hz.	.....	.....	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.58	751.3	30.16	766.1	58.0	14.4	93	e.	4	1.8	.....	3 c	fg.	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.24	768.1	30.36	771.1	40.3	4.6	79	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.32	770.1	30.37	771.4	45	7.2	83	ne.	3	1.3	.....	5 k	5 s	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.10	764.5	75.0	23.9	82	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	30.17	766.3	30.35	770.9	52.0	11.1	81	ne.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.26	768.6	30.28	769.1	57.0	13.9	69	ne.	12	5.4	.....	0	0	.....	.....	0.17	4.3	clear	Wm. Davis.
North Platte, Nebraska	26.84	681.7	29.80	756.9	52.6	11.4	74	n.	20	8.9	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	E. F. Brady.
Olympia, Washington T'y	29.95	760.7	29.99	761.7	54.0	12.2	93	s.	12	5.4	.....	.....	10 n	.....	.....	0.02	0.5	light rain	J. Dascomb.
Omaha, Nebraska	28.61	726.7	29.81	757.2	68.5	20.3	73	s.	6	2.7	.....	2 ck	0	s.	.....	0	0	clear	A. Pollak
Oswego, New York	29.99	761.7	30.32	770.1	51.0	10.6	86	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. G. Linsley
Palestine, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	72.2	22.3	84	sw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.25	768.3	30.35	770.9	51	10.6	86	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.67	448.8	29.95	760.7	16	— 8.9	67	sw.	24	10.7	.....	2 k	0	sw.	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.47	748.5	30.29	769.4	48.3	9.1	93	n.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	G. C. Schaeffer.
Port Huron, Michigan	29.51	749.5	30.20	767.1	46.0	7.8	83	s.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.28	769.1	30.33	770.4	38.0	3.3	89	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	W. W. Eichelberger.
Portland, Oregon	30.07	763.8	30.14	765.5	52.0	11.1	86	s.	8	3.6	.....	.....	10 n	.....	s.	0.01	0.3	light rain	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.81	630.2	29.97	761.2	24.3	— 4.3	71	s.	2	0.9	.....	0	0	.....	.....	0.04	1.0	clear	N. D. Lane.
Provincetown, Mass.	30.34	770.6	30.37	771.4	52	11.1	75	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. N. Kitchel.
Red Bluff, California	29.83	757.7	30.19	766.8	53	11.7	55	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.82	757.4	30.06	763.5	71.0	21.7	91	calm		0	.....	0	0	.....	.....	0	0	clear	Fred. Belford.
Roseburg, Oregon	29.74	755.4	30.30	769.6	49	9.4	86	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	30.09	764.3	30.17	766.3	49.0	9.4	71	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.46	748.3	30.08	764.0	60.0	15.6	87	s.	16	7.2	.....	4 ck	0	w.	.....	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	30.12	765.0	30.15	765.8	36.5	2.5	85	se.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	28.83	732.3	29.70	754.4	63.0	17.2	91	se	4	1.8	.....	3 k	6 ks	sw.	se.	0.11	2.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.71	729.2	29.61	752.1	48	8.9	100	nw.	9	4.0	.....	.....	10 s	.....	nw.	0.05	1.3	cloudy	C. B. Dilley
Salt Lake City, Utah	25.57	649.5	29.97	761.2	42	5.6	59	nw.	12	5.4	.....	0	8 ks	.....	sw.	0.13	3.3	cloudy	J. Craig.
San Diego, California	30.06	763.5	30.13	765.3	50.0	10.0	77	ne.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	F. R. Day.
Sanford, Florida	30.04	763.0	30.09	764.3	75	23.9	84	ne.	6	2.7	.....	2 k	0	ne.	.....	0.31	7.9	clear	J. B. Marbury.
Sandusky, Ohio	29.55	750.6	30.24	768.1	49.5	9.7	89	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.30	769.6	30.33	770.4	54.0	12.2	80	e.	11	4.9	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.12	765.0	30.19	766.8	52.5	11.4	90	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.13	765.3	30.22	767.6	62	16.7	86	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.30	668.0	30.00	762.0	38.2	3.4	72	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.81	757.2	30.05	763.3	65.6	18.7	83	s.	1	0.4	.....	2 c	0	sw.	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Mattingly
Sitka, Alaska	29.83	757.7	29.90	759.4	42.2	5.7	83	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.57	751.1	30.05	763.3	66.5	19.2	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville North Carolina	30.22	767.6	30.26	768.6	56.0	13.3	90	n.	9	4.0	.....	0	1 k	.....	ne.	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.09	764.3	44	6.7	100	s.	4	1.8	.....	.....	10 n	.....	.....	0.10	2.5	heavy rain	John F. Hemenway.
Springfield, Illinois	29.38	746.2	30.07	763.8	58.5	14.7	81	s.	12	5.4	.....	1 c	1 s	w.	w.	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	26.96	684.8	30.00	762.0	71.8	22.1	64	se.	14	6.3	.....	0	6 s	.....	.....	0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	29.90	759.4	.....	.....	53.2	11.8	98	w.	18	8.0	.....	.....	10 s	.....	w.	0.81	20.6	cloudy	R. Connor.
Thomas, Camp, Arizona	.....	.....	.....	.....	49	9.4	46	w.	.....	.....	1	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.49	749.0	30.19	766.8	50	10.0	93	s.	3	1.3	.....	5 c	0	w.	.....	0	0	fair	A. Buell.
Unalaska, Alaska	29.93	760.2	29.95	760.7	40	4.4	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	34.5	1.4	69	nw.	.....	.....	1	0	0	.....	.....	0.03	0.8	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	71.3	21.8	82	calm	0	0	.....	.....	hz.	.....	.....	0	0	clear	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.23	767.8	30.35	770.9	53.2	11.8	87	n	2	0.9	.....	7 k	sk.	n.	.....	inap.	inap.	fair	T. B. Harrison.
West Las Animas, Colorado	25.83	656.1	29.76	755.9	58	14.4	44	w.	12	5.4	.....	3 cs	0	sw.	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.20	767.1	30.26	768.6	55.0	12.8	93	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Yankton, Dakota	28.38	720.8	29.71	754.6	67.5	19.7	88	nw.	4	1.8	.....	.....	10 k	.....	w.	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.94	760.5	30.09	764.3	49.2	9.6	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	75	23.9	.....	n.	.....	.....	2	2 c	1 ks	.....	nw.	0.28	7.1	fair	W. H. Jackson.
Bogota, U. S. C.	22.05	560.1	.....	.....	53.6	12.0	82	sw.	2	1	.....	.....	10ks;s	.....	n.	0.039	1.0	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.98	761.5	75.0	23.9	87	n.	2	0.9	.....	3 cs	0	e.	.....	0.01	0.3	clear	Robert Johnstone.
Paramaribo, S. A.	30.00	762.0	30.01	762.2	79	26.1	82	se.	.....	.....	2	4 c	5 k	e.	.....	0	0	.....	Dr. C. J. Herne.
Puerto Berrio, U. S. C.	29.45	748.0	30.02	762.5	72	22.2	94	s.	.....	.....	1	.....	10 ks	.....	s.	1.77	45.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	88	ne.	.....	.....	1	.....	.....	.....	.....	0	0	clear	Earl Flint.
York Factory, B. A.	29.84	757.9	29.90	759.4	25.5	— 3.6	94	n.	8	3.6	.....	0	0	.....	.....	.0	0	clear	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 40° 48′, E. 24° 43′	30.36	771.1	67	19.4	60	e.			1		8	wnw.						d. clouds.
H. M. S. Cockatrice, N. 35° 58′, E. 18° 46′	30.23	767.8	71	21.7		nne.			4		2	ene.				3	nne.	d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.76	755.9	72	22.2	85	se.			5		8	se.						d. clouds.
H. M. S. Flamingo, N. 48° 39′, W. 53° 26′	30.36	771.1	43	6.1	92	n.			1		1	n.				1	e.	blue sky.
H. M. S. Iris, N. 31° 30′, E. 31° 51′	30.04	763.0	80	26.7	87	wnw.			3		4							d. clouds.
H. M. S. Orontes, N. 28° 37′. W. 19° 25′	30.05	763.3	70	21.1	85	nw.			1		4					1	nnw.	d. clouds.
H. M. S. Opal, N 2° 08′, E. 0° 03′	30.00?	762.0?	79	26.1	82	sse.			2		3	sse.				3	sse.	d. clouds.
H. P. M. S. Douro, St. Thomas, W.I	29.95	760.7	77.0	25.0	92	ssw.			2		10		sw.	4 h'r	4 h'r	2	sw.	thnd'r st'rm
U. S. Navy Yard, Portsmouth, N.H.*	30.32	770.1	38	3.3	90	calm	0	0			0			0	0			foggy.
U. S. S. Alliance, Portland, Me			40	4.4	91	wsw.			1					0	0			foggy.
U. S. S. Jamestown, N. 22° 18′, W. 53° 40′	29.97	761.2	80	26.7	100	s.			2		2					sm'h		fair
U. S. S. Kearsarge, Dar el Beida, Morocco	29.94	760.5	66	18.9	73	nw.			2		2					sm'h		fair.
U. S. S. Lancaster, Gibraltar, Mediterranean	29.93	760.2	62	16.7	94	ssw.			6		5		ssw.			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I			51	10.6	86	nne.			3		10					sm'h		cloudy.
U. S. S. Powhatan, North Sydney, C. B	30.43	772.9	41	5.0	91	calm			0		2							clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.48	774.2	66	18.9	54	ene.			2		0							clear
U. S. S. Pinta, New York N. Y	30.36	771.1	51	10.6	86	ene.			1		0							foggy.
U. S. S. Saratoga, New York, N. Y	30 35	770.9	51	10.6	93	ne.			2		8?		ne.	0	0	sm'h		clear ?
U. S. S. Swatara, Boston, Mass	30.38	771.6	42	5.6	83	calm			0		0			0	0	sm'h		foggy.
U. S. S. Vandalia, Gardiner's Bay, Long Island †	30.31	769 9	55	12.8	93	e.			2		5?							clear?
S. S. British Crown, N. 51° 41′, W. 15° 31′†	30.52	775 2	63	17.2		sw.			2		5		sw.	0	0	long	w.	dense fog.
S. S. British Prince, N. 40° 13′ W. 70° 00′			57	13.9		ne.			4		2		ene.	0	0	mod.	ne	clear.
S. S. British Princess, N. 42° 44′. W. 62° 31′ †	30.34	770.6	52	11.1		var.			2		4		e.	0	0	sm'h		fine.
S. S. Lord Clive, N. 40° 18′. W 69° 40′						ne.			4		0			0	0	mod.	se.	fine.
S. S. Lord Gough, N. 51° 20′, W. 19° 00′	30.33	770.4	63	17.2		s.			3		5		s.	0	0	mod.	sw.	fair.
S. S. Ohio, N. 47° 07′, W. 44° 44′					84	n.			4		4		ne.	0	0	sm'h	ne.	clear.
S. S. Prussian, N. 42° 31′, W. 68° 18′	30.35	770.9	52	11.1		nne.			1		0			0	0	sm'h		foggy.
S. S. Scandinavian, N. 44° 22′, W. 54° 50′	30.47	773.9	52	11.1		ene.			1		10		ene	0	0	sm'h	nnw.	overcast.
S. S. Sardinian, N. 56° 43′ W. 29° 19′	29.96	761.0	47	8.3		w.			5		2		wnw.	1 h'r	1 h'r	mod.	wnw.	clear.
S. S. Jason, N. 37° 30′ W. 73° 10′†	30.27	768.8	65.3	18.5		ene.			4	2 c	0					4	e.	clear.
S. S. Alvo, N. 39° 10′, W. 74° 00′			57	13.9		n.			5–6		7		nne.	0	0	long	nne.	cloudy.
S. S. Ailsa, N. 18° 44′, W. 74° 45′			84	28.9	100	ne.			3		2		ne.	0	0	sm'h		fine.
S. S. Avilla, N. 30° 06′, W. 74° 00′ *†	30.10	764 5	77	25.0		n.			6		5		n.	0	0		n.	
S. S. Dorian, Malaga, Spain						e.			7		10		e.	4 h'r	4 h'r	r'gh		cloudy.
S. S. Furnessia, New York, N. Y†	30.34	770.6	65	18.3	84	n.			1									hazy.
S. S. Jerome, N. 20° 24′, W. 59° 22′ *	29.98	761.5	83	28.3		se.			2		4		nnw.	0	0	long	nnw.	clear.
S. S. Llandaff City, N. 50° 02′, W. 31° 39′ †	30.19	766.8	62	16.7		nw.			4		8		nw.	3 h'r	3 h'r	mod.	con.	dull.
S. S. Bothnia, N. 41° 27′, W 63° 14′			67	19.4	89	nne.			3		2		nnw.	0	0	sm'h		clear.
S. S. Pavonia, N. 51° 22′. W. 15° 09′ *	30.48	774.2	60	15.6	94	wsw.			3		8		w.	0	0	sli't	wnw.	foggy.
S. S. Scythia, N. 47° 05′, W. 38° 02′	30.36	771.1	59	15.0	88	nw.			3		4		calm	0	0	mod.	nw.	
S. S. Samaria, N. 48° 12′ W. 34° 50′*	30.21	767.3	59	15.0		nw.			5		3		nnw.	2 h'r	2 h'r	mod.	nw.	fair.
S. S. Canada, N. 49° 48′, W. 17° 11′			59.0	15.0		se.			2	c		se.		0	0	sm'h		clear.
S. S. Olinde Rodrignes, N. 18° 47′ W. 56° 48′*†	29.96	761.0	79	26.1		s.			2		3		se.	sh'rs	sh'rs	mod	se.	clear.
S. S. Bohemia, Hamburg, Germany*†	30.36	771.1				w.			5		8		w.	12 h'r	12 h'r			overcast.
S. S. Gellert, Hamburg. Germany	30.38	771.6	51	10.6	100	wsw.			3		10		w.	4 h'r	4 h'r			covered.
S. S. Lessing, N. 50° 24′ W. 20° 40′	30.32	770.1	64	17.8		s.			4		7		sw.	0	0	mod.	sw.	cloudy.
S. S. Rugia, N. 46° 09′, W. 48° 23′	30.40	772.1	56	13.3		ne.			2		2		ne.	0	0	sm'h	nw.	fair.
S. S. Silesia, New York, N. Y	30.36	771.1	52.5	11.4		nne.			1				n.	0	0			fair.
S. S. Nessmore, N. 41° 10′, W. 60° 06′	30.29	769.4	62	16.7	83	ene.			4		10		e.	0	0	r'gh	ene.	cloudy.
S. S. Hevelius, Liverpool. Eng			59	15.0		w.			4				wnw.	12 h'r	12 h'r			misty.
S. S. Rio Grande, N. 27° 23′, W. 89° 28′†	30.13	765 3	80	26.7		ese.			1		3		ese.	0	0	mod.	ese.	clear.
S. S. Chalmette, N. 34° 42′, W. 75° 35′†	30.16?	766.1?	66	18.9		nne.			7		7		nne.	½ h'r	½ h'r	r'gh	nne.	cloudy.
S. S. New York, N. 27° 50′, W. 87° 30′*†.	30.16	766.1	82	27.8		ene.			3		2		e.	0	0	mod	ese.	clear.
S. S. Alleghany, Baltimore, Md †	30.35	770.9	52	11.1		calm			0		8?		n.	light	light			clear.
S. S. Archimede, N. 36° 10′, W. 63° 05′†	30.05	763.3	76	24.4		ne.			6		9		ene.	12 h'r	12 h'r	h'vy	ne.	rain & fog.
S. S. City of Merida. N. 29° 47′, W. 79° 45′*†	30.18	766.6	80	26.7		ne.			4		5		ne.	0	0	cross	ne.	fine.
S. S. Canada, St. Johns, N.F			52	11.1							5			0	0			fair.
S. S. Denmark, N. 49° 14′, W. 13° 40′†	30.55	776.0	60	15.6		e.			3		4		e.	0	0	sm'h		clear.
S. S. Grecian, Quebec, Canada	30.35	770.9	42	5.6	83	se.			1		0			0	0			hazy.
S. S. England, N. 48° 03′, W. 35° 16′	30.29	769.4				nw.			5		0			0	0	mod.	w.	clear.
S. S. Erin, London. Eng			53	11.7		w.			3		8		w.	0	0			cloudy
S. S. Greece, N. 42° 41′ W. 46° 54′	30.34	770.6	61	16.1	94	ne.			7		6		ne.	0	0	mod.	ne.	d. clouds.
S. S. Holland, N. 48° 14′, W. 24° 55′	30.37	771.4	63	17.2		ssw.			4		8		sw.			high	sw.	hazy.
S. S. The Queen, N. 50° 42′, W 16° 59′	30.41	772.4	55	12.8		sse.			4		5		sse.			mod.	sw.	misty.
S. S. America, N. 40° 20′, W. 69° 14′*	30.25?	768.3?	54.0	12.2	74	nne.			2		0							clear.
S. S. Donau, N. 47° 46′ W. 44° 19′	30.45	773.4				wnw.			4		2		wnw.	2 h'r	2 h'r	mod.	var.	clear.
S. S. Elbe, Bremerhaven, Germany	30.32	770.2	54.5	12.5	94	w.			3		5?		w.	2 h'r	2 h'r			cloudy?
S. S. Habsburg, N. 41° 56′, W. 64° 02′	30.37	771.4				ene.			3		2		ene.	0	0	sm'h	ene.	clear.
S. S. Hohenstaufen, N. 36° 44′, W. 14° 57′	30.01	762.2	59.0	15.0		ne.			4		8		ne.	3 h'r	3 h'r	mod.	ne.	cloudy.
S. S. Orinoco, N. 32° 32′, W. 64° 45′			70	21.1		se.			5		5		sse.	8 h'r	8 h'r	h'vy	se.	squally.
S. S. Main, N. 49° 49′ W. 6° 05′	30.55	776.0	57.2	14.0		ne.			1		7		ne.			sm'h		foggy.
S. S. Neckar, N. 52° 11′, E. 2° 50′	30.42	772.7	64.0?	17.8?	78	w.			3–4		6		nw.	rain	rain	sm'h	nw.	fair.
S. S. Ohio, N. 42° 16′, W. 18° 04′	30.34	770.6				ene.			5		4		ene.	0	0	light	ene	fair.
S. S. Rhein, N. 41° 26′, W. 63° 39′	30.31	769.9				ene.			2		3		ne.	0	0	mod.	ne.	fair.
S. S. City of Augusta, New York, N.Y †	30.38	771.6				nnw.			2		4		nw.					fine.
S. S. Muriel, St. Thomas, W.I			82	27.8		ese.			1		0			0	0	sm'h		clear.
S. S. Rhynland, N. 50° 15′ W. 14° 42′	30.54	775.7	58	14.4		sse.			3		8		sse.	0	0	sm'h	s.	hazy.
S. S. Pennland, N. 41° 47′, W. 62° 43′ †	30.36	771.4	56	13.3	87	ene.			3		5		se.	0	0	sm'h		fair.
S. S. Switzerland, N. 45° 08′ W. 53° 29′*†	30.46	773.7				calm			0		10		sse.	0	0	sm'h		cloudy.
S. S. Vaderland, N. 49° 33′, W. 25° 47′	30.31	769.9	63	17.2		sw.			5		6		w.	1 h'r	1 h'r	high	wnw.	fair.
S. S. Waesland, N. 49° 53′, W. 8° 40′	30.52	775.2	64	17.8		nne.			3		10			0	0	sm'h		misty.
S. S. P. Oaland, N. 51° 30′, E. 2° 30′	30.53?	775.4?	58.6	14.8	91	sw.			2		10		ene.			sm'h		hazy.
S. S. Schiedam, N. 46° 46′, W. 43° 32′	30.37	771.4	59.0	15.0	80	wnw.			5		2		wnw.	0	0	long	wnw.	clear.
S. S. Zaandam, New York, N.Y	30.34	770.6	58.6	14.8	80	e.			2		5		e.	0	0			fair.
S. S. W. A. Scholten, New York, N. Y	30.32	770.1	50.0	10.0	80	ne.			1		7		ne.	0	0	1	e.	
S. S. Valencia, LaGuayra, Venezuela*†	29.90	759.4	82.5	28.1	83	nw.			1		8		calm	0	0	light	ene.	cloudy.
S. S. State of Georgia, N. 46° 52′. W. 52° 04′	30.45	773.4	47	8.3		wnw.			2		10		w.	0	0	sm'h		overcast.
S. S. State of Indiana, N. 54° 56′, W. 16° 15′ *†	30.40	772.1	55	12.8		sw.			3		8		sw.	0	0	sm'h		foggy.
S. S. Thingvalla, New York, N. Y			55.4	13.0		nnw.			2		3		nnw.	0	0			clear,
S. S. Otranto, N. 50° 46′, W, 29° 49′	30.23	767.8	59	15.0		nnw.			5		10		nw.	10 h'r	10 h'r	r'gh	sw.	light rain.
S. S. Romano, Boston, Mass			42	5.6		n.			1									
S. S. Salerno, N. 50° 11′ W. 3° 37′ *†	30.58	776.7	62	16.7		ene.			2		10		ene.	0	0	sm'h	e.	cloudy.
S. S. Dominion, N. 49° 38′ W. 58° 48′ *†	30.18	766.6	45	7.2		ese.			1		8		w			sm'h	w.	cloudy.
S. S. Oregon, N. 54° 57′, W. 5° 46′	30 43?	772.9?	55	12.8		se.			1		0					mod.	wsw.	fine.
S. S. Quebec, Montreal, Canada	30.31	769.9	46	7.8		sse.			1		9		sse.	0	0			cloudy.
S. S. Texas, N. 56° 13′, W. 31° 56′*†	30.12	765 0	55?	12.8?	93	nw.			4		0			0	0	sm'h		clear.
S. S. Olbers, N. 23° 39′, W. 60° 54′	29.96	761.0	81.5	27.5	93	sw.			4		4		sw.	0	0	high	n.	fair.
S. S. Daniel Steinmann, N. 46° 22′ W. 48° 34′ †	30.46	773.7	52	11.1		w.			2		9?		calm	0	0	sm'h	w.	clear ?
S. S. Adriatic, N. 47° 16′, W. 44° 57′ *†	30.32	770 1	48	8.9		w.			4				nw.			sm'h		clear.
S. S. Celtic, N. 41° 20′, W. 60° 04′†	30.43?	772.9?	62	16.7		ene.			4		8		ne.	0	0	sm'h		cloudy.
S. S. Iowa, N. 50° 48′, W. 32° 44′†	30.24	768.1	58	14.4		wnw.			4		3		wnw.	0	0	light	ssw.	clear.
S. S. Assyrian Monarch, N. 42° 47′, W. 62° 20′	30.34	770.6				calm			0		0			0	0	sm'h		clear.
Bk. Arda, N. 28° 34′, W. 29° 29′†	30.01	762.2				ne			1		2?		e.	0	0	mod.	e.	cloudy ?
Bg. Alpheus Marshall, N. 5° 43′, W. 18° 19′*†	29.91	759.7	80	26.7	91	s.			3		9		s.	4 h'r	4 h'r	cross	sse.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 54° 56′, W. 29° 45′			52	11.1	86	wnw.			5		4		nnw.	12 h'r	12 h'r	h'vy	s.	fair.
Bg Abbie Clifford, N. 27° 53′, W. 63° 46′			77	25.0		wsw.			4		2		ene.	0	0	mod.	ne.	
Schr. Arthur Burton, N. 33° 40′, W. 77° 00′†	30.19	766.8				nne.			5		8		nne.	0	0	r'gh	une.	threatening.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.37	771.4	50	10.0		n.			1									fair.
S. S. Antonio Lopez, Cadiz, Spain *	29.89	759.2	57.5	14.2	97	nnw.			5		9			12 h'r	12 h'r			squally.
Schr. Adda Doane, N. 24° 13′, W. 56° 13′*†	29.96	761.0				sw.			4		3		sw.	2 h'r	2 h'r	mod.	n.	clear.
Bg. Belle of the Bay, Galveston Texas †	30.12	765.0				s.			5		5		sw.	0	0			fair.
S. S. Benledi, N. 34° —′, E. 23° 45′*	30.15	765.8	72.5	22.5	76	var.			0–2		8		var.	2 h'r	2 h'r	sm'h		light rain.
S. S. Burswell, N. 45° 31′, W. 8° 57′*†	30.33	770.4	61	16.1		ne.			4		8		ne.	0	0	st'g	ene.	cloudy.
Bk. Ceylon, N. 10° 30′, W. 34° 49′†	29.96	761.0	83	28.3	91	ene.			5		8		e.	light	light	long	ne	squally.
Schr. Clotilde, N. 30° 43′, W. 75° 40′†	30.07	763.8	79	26.1		nne.			6		2		ne.	2 h'r	2 h'r	r'gh	nne.	squally.
Schr. C. R. Flint, Demerara, British Guiana†	30.01	762.2	81	27.2		ese.			1		2		e.	2 h'r	2 h'r			clear.
Bk. Don Justo, N. 38° 30′, W. 74° 00′			61	16.1		ne.			5		8		nne.	0	0	sm'h		clearing.
S. S. D. J. Foley, Kingston, Jamaica. W. I.*†	30.00	762.0	85	29.4	83	se.			1		4		e.	2 h'r	2 h'r			fair.
Bk. Diamant, N. 48° 53′, W. 19° 55′	30.50	774.8	59.7	15.4	78	s.			3		8		sw.	2½h'r	2½h'r	4	w.	cloudy.
S. Dynomene, N. 10° 43′, W. 25° 25′	29.93	760.2	78	25.6	100	sse.			3		10			h'vy	h'vy	light	var.	raining.
S. E. J. Spicer, N. 44° 58′, W. 27° 25′	30.37	771.4	68	20.0	90	sse.			5		10?		sse.	16 h'r	16 h'r	mod.	nw.	clear.?
S. Festina Lente, N. 45° 49′, W. 50° 51′	30.41	772.4	49	9.4		calm			0		10		wsw.	2 h'r	2 h'r	mod.	wsw.	dull.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.32	770.1	50	10.0	100	ne.			1		8		calm	0	0			cloudy.
S. Gatherer, N. 48° 10′, W. 20° 10′*	30.48	774.2	60	15.6	77	sse.			3		8		sse.	0	0	sm'h	n.	cloudy.
Bg. George, N. 30° 20′, W. 71° 00′*†	29.93	760.2	77	25.0		nne.			6		2		nne.	0	0	r'gh	nnw	fair.
Bk. Galeon, N. 21° 43′, W. 44° 21′†	30.04	763.0	81	27.2		se.			1		1		se.	light	light	sm'h	se.	blue sky.
Bk. Hattie G. McFarland, New York, N.Y.†	30.35	770.9	50	10.0		e.			2		3		e.	0	0			fine.
S. Hedwig, N. 20° 34′ W. 47° 37′	30.05	763.2	81.0	27.2	78	sse.			2		2		e.	0	0	3	ene.	clear.
Bk. Henrich & Tonio, N. 50° 10′, W. 1° 45′†	30.53	775.4	59	15.0		s.			1–2		10			0	0	sm'h		hazy.
Schr. Isabel Alberto, Cedar Keys, Fla.						ne.			3		0			0	0			clear.
Bk. Ibis, N. 35° 45′, W. 73° 50′			68	20.0		nne.			6		3		nne.	2 h'r	2 h'r	h'vy	ene.	squally.
Bk. John H. Pearson, N. 35° 50′, W. 60° 22′						ne.			1				ne.	0	0	long	e.	cloudy.
Schr. Jas Slater, N. 28° 25′, W. 64° 41′†	29.79	756.7				sw.			4		2		w.	0	0	long	var.	
Bg. Josefa, N. 45° 00′, W. 57° 10′†	30.40	772.1				wnw.			1		9			0	0	r'gh		cloudy.
Bkt. Kryolith, N. 40° 10′, W. 70° 56′						ene.			4		5		w.	0	0	mod.	e.	
Bk. Lady Hincks, N. 31° 40′, W. 61° 30′ *†	29.80	756.9									7		ese.	3 h'r	3 h'r			gloomy.
Bg. Lillian, N. 20° 09′, W. 62° 55′†	29.97	761.2	83	28.3		s.			1		2		ne.	0	0	hv'y	n.	fair.
Bg. L. & W. Armstrong, Delaware Breakwater, Del.*†	30.34	770.6				ne.			4		0			0	0	sm'h		hazy.
S. S. Madrid, Taganrog, Russia †	29.98	761.5	47	8.3	77	n.			5		9		n.	0	0			fair.
Bk. Matthias, N. 39° 11′, W. 52° 21′*†	30.32	770.1	65.5	18.6		ne.			6		10		ne.	½ h'r	½ h'r	4	ene.	squally.
Schr. Norena, N. 38° 08′, W. 68° 20′*†	30.23	767.8				ene.			5		3		e.	6 h'r	6 h'r	r'gh	ne.	
Bk. National Eagle, N. 38° 04′, E. 17° 00′						ne.			4		2?		ne.	0	0	sm'h		cloudy.?
Schr. Rollin Sanford, Milton, Floridaf	30.11	764.8				n.			1					0	0			hazy.
Bg. Rising Sun, N. 25° 13′, W. 57° 40′†	29.99	761.7	80	26.7		sw.			6		9		sw.	sq'lls	sq'lls	cross	nw.	squally.
Bk. Rosalie, N. 14° 19′, W. 26° 01′*†	29.98	761.5				e.			3		4		ese.	0	0	light	ene.	clear.
Bk. Saga, N. 57° 58′, E. 9° 01′*†	30.01	762.3	55	12.8		w.			6–7		5		w.	10 h'r	10 h'r	rg'h	w.	fair.
S. Salisbury, N. 43° 05′, W. 30° 03′			69.6	20.9	91	sse.			1–2		4 k		var.	¼ h'r	¼ h'r	mod.	sse.	fair.
Bk. Samuel B. Hale, N. 34° 36′, W. 38° 41′*†	30.15	765.8				s.			4				s.	0	0	long	nw.	fair.
Bk. Sunbeam, N. 46° 35′, W. 30° 42′†	30.29	769.4	68	20.0	84	s.			6		4		ssw.	2 h'r	2 h'r	mod.	s.	fair.
Bk. Scud, N. 20° 49′, W. 58° 13′*†	29.98	761.5	86	30.0		s.			2		2		s.	0	0	long	n.	fine.
S. St. Francis, N. 35° 05′, W. 57° 18′*†	30.15	765.8	74	23.3		e.			9		5		e.	2 h'r	2 h'r	h'vy	e.	stormy.
Schr. Viola Reppard, James Point, Md			58	14.4		ne.			2		10		n.					cloudy.
Schr. Walter L. Plummer, N. 24° 39′, W. 28° 09′*†	30.05	763.3				ene.			1		1		ne.			sm'h	ne.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 18° 27′, W. 37° 48′	30.04	763.0	76	24.4	77	ene.			4		3	ene.				3	ene	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.05	763.3	64	17.8	94	se.			6		7	se.						d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	29.93	760.2	56.2	13.4	92	calm			0		2	calm						blue sky.
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.99	761.7	77.0	25.0	83	ssw.			3		8		ssw.	0	0	3	ssw.	overcast.
H. P. M. S. Bengo, Benguela, Benguela	30.04	762.9	74.7	23.7	81	nw.			3		10			0	0	1		overcast.
U. S. S. Brooklyn, S. 37° 53′, W. 31° 13′*	29.84	757.9	58	14.4	88	wsw.	9	4.0			10		wsw.	0.48	12.2	mod.	wsw.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	29.92	760.0	60	15.6	88	calm			0		0					sm'h		clear.
S. S. Sirius, Rio de Janeiro, Brazil	29.87	758.7				calm			0		0							clear
Bk. Aureola, S. 18° 30′, W. 37° 24′†	30.05	763.3	84	28.9		ene.			5		3		ene.	0	0	mod.	ese.	clear.
Bk. Adelaide, S. 3° 22′, W. 33° 15′ *†	30.05	763.3	81	27.2		ese.			5		1		se.	0	0	r'gh	se	hazy.
S. David Crockett, S. 49° 33′, W. 46° 25′*	29.51	749.5	43.5	6.4	83	nw.			5		1			0	0	long	wsw.	squally.
Bk. E. L. Pettingill, S. 41° 08′, W. 55° 56′*†	29.90	759.4	60	15.6		calm			0		0			0	0	sm'h		clear.
Bk. Grey Eagle, S. 8° 12′, W. 32° 25′*†	29.90	759.4				se.			2		1		se.	0	0	short	se.	clear.
Bg. John Wesley, Natal, Brazil *†	29.92	760.0	81	27.2		e.			4		4		ese.	¼ h'r	¼ h'r			hazy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.03	762.7				wnw.			3		0			0	0			clear.
S. S. Menadoza, S. 25° 32′, W. 38° 00′†	30.15	765.8				nne.			4		10		nne.	0	0	r'gh	nne.	
Bk. Mohican, S. 36° 20′, W. 13° 50′	30.22	767.6	62	16.7		calm			0		4		ne.	0	0	sm'h		fair.
Bk. Pilgrim, S. 14° 39′, W. 11° 16′ *†	30.20	767.1				ese.			4		5		ese.	0	0	mod.	ese.	fair.
Bgt. Willie, S. 34° 15′, W. 52° 45′*†	29.84	757.9	60	15.6		sw.			5		2		wnw.	light	light	mod.	sw.	clear.
Bk. Childwall, S. 2° 36′, W. 28° 42′*	29.95	760.7	79	26.1		se.			5		6		se.	0	0	light	sse.	fair.
Bk. Achille F, S. 23° —′, W. 35° —′ †	30.18	766.6	75	23.9		ne.			4		3		ne.			light		showery.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.59	751.6	75	23.9	86	ssw.			4–6		4	sw.				5	se.	squally.
H. M. S. Champion, Singapore, Malay Peninsula	29.90	759.4	83	28.3	79	calm			0		0							blue sky.
H. M. S. Flying Fish, N. 36° 03′, E. 125° 49′	29.96	761.0	68	20.0	73	n.			3		0					3		blue sky.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.08	764.0	74	23.3		ene.			1		0							blue sky.
H. P. M. S. Famegu, Canton, China	29.99	761.7	80.6	27.0	84	calm			0		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.68	753.9	72.5	22.5	74	sw.			6		1		wsw.	1.09	27.7			clear.
U. S. S. Essex, Nagasaki, Japan	29.89	759.2	70	21.1	85	n.			1		0							clear.
U. S. S. Hartford, Corinto, Nicaragua *	29.88	758.9	79	26.1	82	ne.			1		5			5 h'r	5 h'r			fair.
U. S. S. Juniata, Canton, China	30.00	762.0	80	26.7	66	calm			0		0			0	0			hazy.
U. S. S. Monocacy, Ross Island, Corea	29.94	760.5	67	19.4	64	nne.			2		0							clear.
U. S. S. Pensacola, N. 34° 41′, E. 140° 54′ *	29.63	752.6	78	25.6	82	ssw.			8		2		ssw.	light	light	h'vy	ssw.	clear.
U. S. S. Ranger, Mare Island, Cal	30.06	763.5	56	13.3	75	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	29.65	753.1	74	23.3	76	ssw.			6		2		ssw.	1.10	27.9			clear.
S. S. Oceanic, N. 39° 36′, W. 174° 36′	29.96	761.0	62	16.7	95	wnw.			4–5		7			rain	rain	3	nw.	fair.
S. S. Oregon, N. 44° 30′, W. 124° 14′†	30.27	768.8	59	15.0	94	w.			4		10		ssw.			sm'h		light rain.
S. S. Ancon, Point Loma, Cal.†	30.12	765.0	60	15.6	65	e.			2		0			0	0	mod.	w.	clear.
S. S. Dakota, Port Townsend, Wash. Ter.†	30.01	762.2	54	12.2	93	w.			2		2		n.	0	0	sm'h		foggy.
S. S. State of California, N. 38° 15′, W. 123° 10′†	30.17	766.3	51	10.6	46	nw.			2		0					sm'h	nw	clear.
S. S. City of Pekin, Hong Kong, China †	30.04	763.0	78	25.6	74	sw.			3		5		w.	0	0			fair.
S. S. City of Tokio, N. 38° 18′, E. 159° 52′			74	23.3	86	s.			4		6		s.	0	0	mod.	ssw.	cloudy.
S. S. City of Rio de Janeiro, N. 39° 21′, W. 149° 50′†	30.50	776.2	65	18.3	80	sse.			4		1		se.	0	0	light	se.	hazy.
S. S. Colima, N. 17° 41′, W. 102° 21†	29.99	761.7	81	27.2	78	s.			2		4		se	0	0	small	sse.	clear.
S. S. Grenada, N. 15° 10′, W. 95° 05′†	30.00	762.0	83	28.3	67	n.			5		5		n.	0	0	mod.	n.	
S. S. San Blas, Panama, Panama†	29.89	759.2	78	25.6		nw.			3		6		nw.	1½ h'r	1½ h'r			fair.
S. E. B. Sutton, N. 8° 00′, W. 118° 00′*†	29.94	760.5	77.5	25.3	95	sw.			2		10			12 h'r	12 h'r	r'gh	var.	raining.
S. Storm King, N. 5° 14′, W. 117° 35′*†	29.97	761.2				s.			2		1		s.	0	0	sm'h	var.	fine.
U. S. S. Palos, Canton, China	30.00	762.0	78	25.6	65	se.			1		0							clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.95	760.7	81.3	27.4	87	calm	.....	.....	0	.....	5	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Magpie, N. 3° 44′, E. 107° 19′	29.92	760.0	80.7	27.1	87	s.	.....	.....	2	.....	9	.....	.....	.....	.....	2	s.	misty.
H. M. S. Mutine, S 15° 00′, W. 76° 40	30.02	762.5	60	15.6	.....	se.	.....	.....	2	.....	10	.....	.....	.....	.....	3	se.	overcast.
U. S. S. Nelson, Sydney, N. S. W	29.99	761 7	51	10.6	86	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	62	16.7	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.02	762.5	58	14.4	82	calm	.....	.....	0	.....	2	.....	s.	.....	.....	.....	.....	clear.
U. S. S. Onward. Callao, Peru *†	30.13	765.3	61	16.1	94	n.	.....	.....	1	.....	10	.....	n.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, S. 29° 20′, W. 71° 42′*	29.96	761.0	56	13.3	100	sse.	.....	.....	4	.....	2	.....	calm	.....	.....	mod.	s.	fair.
S. S. Australia, Sydney, N. S W	29.93	760.2	57	13.9	87	wnw.	.....	.....	1	.....	0?	.....	.....	0	0	.....	.....	cloudy.?
S. S. City of New York, S. 9° 32′, W. 168° 24′ †	29.93	760.2	82	27.8	95	ne.	.....	.....	1	.....	0	.....	.....	0	0	mod.	se.	clear.
S. S. City of Sydney, S. 34° 30′, E. 174° 10′ *†	29.82	757.4	59	15.0	88	ene.	.....	.....	6	.....	10	.....	.....	.....	.....	h'vy	ne.	rainy
Bk. Godeffroy, S. 40° 50′, W. 77° 38′	30.04	763.0	50.2	10.1	74	nw.	.....	.....	4	.....	9 k	.....	w.	0	0	mod.	sw.	cloudy.
S. Sovereign of the Seas, S. 12° 50′, W. 96° 11′*†	30.18	766.6	72	22.2	85	ese.	.....	.....	3	.....	4	.....	ese.	0	0	long	s.	fair.
S. Armenia, S. 20° 05′, W. 124° 50′ *	29.99	761.7	74	23.3	76	ene.	.....	.....	4	.....	3	.....	.....	0	0	r'gh	se;s.	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.05	763.3	67	19.4	.....	se.	.....	.....	4	.....	2	.....	se.	.....	.....	mod.	se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.03	762.7	79	26.1	86	wsw.	.....	.....	2	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.05	763.3	80	26.7	87	se.	.....	.....	3	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab River, Turkey	29.85	758.2	91.5	33.1	51	nw.	.....	.....	1	.....	2	calm	.....	.....	.....	.....	.....	blue sky
Bk. Bore, S. 32° 02′ E. 31° 02′*†	30.37	771.4	78	25.6	.....	nw.	.....	.....	1	.....	5	.....	wsw.	0	0	mod.	ene.	hazy.
S. Frank N. Thayer, S. 24° 59′, E. 50° 36′*†	30.30	769.6	73	22.8	67	ne.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	blue sky.
Bk. Great Surgeon, S. 38° 45′, E. 56° 07′ *†	30.23	767.8	54	12.2	.....	w.	.....	.....	3	.....	4	.....	w.	0	0	cross	sw.se	fair.
S. S. Galatia, N. 17° 25′, E. 86° 20′†	29.80	756.9	85	29.4	76	wsw.	.....	.....	1	.....	8	.....	sse.	0	0	long	sse.	gloomy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 9, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.1	72.7	22.6	77	e.			1		6			0	0	cloudy	Roziere.
Algiers			30.08	763.9	84.9	29.4	37	e.			4		0			0	0	clear	Thève.
La Calle			30.15	765.7	78.4	25.8	75	sw			3		2			0	0	fair	Fonfrède.
Tunis			30.25	768.4	77.0	25.0	54	e.			3		4			0.012	0.3	cloudy	Delord.
Saida			30.03	762.7															Pérés.
Tebessa			30.18	766.5	62.6	17.0	80	se.			1		4			0	0	cloudy	St. Martin.
Geriville					71.6	22.0	16	s.			5		3			0	0	pretty fair	Forfert.
Laghouat			30.15	765.8	73.0	22.8	23	e.			1		3			0.118	3.0	pretty fair	Abraham.
Biskra			30.17	766.3	78.8	26.0	33	e.			1		1			0	0	very fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.41	772.4	49.2	9.6	79	s.	5	2.2			10 k		se.	0.031	0.8	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.13	765.3	30.22	767.6	50.1	10.1	72	wsw.	14	6.3			9			0.28	7.1	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.83	757.6	30.38	771.7	57.7	14.3	51	s.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.48	748.7	30.25	768.4	53.2	11.8	91	wsw.	3.8	1.7			10			0.051	1.3		Dr. Wierzbiski
Eperies	29.34	745.3	30.23	767.9	52.5	11.4	68	s.			1		fg		se.	0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.84	732.6	30.31	769.9	48.6	9.2	80	ssw.			1		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	29.04	737.5	30.39	771.9	54.3	12.4	73	calm			0		0			0	0	clear	The Staff.
Lemberg	29.17	740.8	30.16	766.1	52.0	11.1	89	nw.			4		10			0.047	1.2		Dr. T. Stanecki.
Pola	30.21	767.4	30.32	770.2	62.6	17.0	62	nnw.			3		6			0	0		I. R. Hydrographic Office.
Szathmar	29.79	756.7	30.26	768.7	50.0	10.0	75	w.			2		9			0	0		Joseph Midlinszky, S. J
Szegedin	29.99	761.8	30.28	769.0	58.8	14.9	68	nw.			1		10			0	0		Karl Stuccel.
Trieste	30.27	768.8	30.37	771.3	64.0	17.8	57	w.			1		0			0	0		Royal Academy.
Vienna	29.63	752.7	30.35	770.9	57.6	14.2	62	w.			4		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.94	760.5	30.03	762.7	63.0	17.2	54	w.	24	10.7			5			0.005	0.1	squally	W. Boswell.
Armagh, Observatory	30.02	762.5	30.25	768.3	58.0	14.4	87	sw.	13	5.8			10					overcast	S. Ball.
Bidston, Liverpool Obs'y			30.30	769.6	58.6	14.8	85	wnw.	9	4.0			4					d. clouds	John Hartnup.
Bolton, Sharples	29.75	755.6	30.29	769.4	55.9	13.3	92	sw.					10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.88	758.9	30.28	769.1	58.2	14.6	85	sw.			1		10			0	0	overcast	McLandsborough & Preston.
Cardington	30.24	768.1	30.35	770.9	57.6	14.2	75	nw.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	30.22	767.6	30.40	772.1	57.1	13.9	81	nw.			1		7					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.15	765.8	30.38	771.6	57.1	13.9	76	ese.			1		1					blue sky	The Staff.
Fort Napier, Natal	27.49	698.2	29.71	754.6	84.5	29.2	40	e.			1		2					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.75	755.6	29.98	761.5	85.0	29.4	83	e.			6		5					showery	J. W. Smith.
Galway, Queen's College	30.22	767.6	30.25	768.3	56	13.3	94	sw.			2		9			0.04	1.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.04	763.0	68.0	20.0	91	w.			4		2					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.96	761.0	30.16	766.1	58.7	14.8	82	w.			5		7 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.20	767.1	30.38	771.6	55.6	13.1	84	sw.			1		10					overcast	The Staff.
Guernsey	30.08	764.0	30.38	771.6	60.5	15.8	71	ese.			1		0					blue sky	A. Collenette, F. M. S
Kew, Observatory	30.34	770.6	30.38	771.6	56.7	13.7	83	wsw.	5	2.2			10					overcast	The Staff.
Leicester, Museum	30.07	763.8	30.33	770.4	57.0	13.9	94	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.13	765.3	30.21	767.3	70.6	21.4	84	ne.			2		3			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.98	761.5	30.03	762.7	81.0	27.2	60	ne.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.83	757.7	30.35	770.9	55.1	12.8	94	ssw.			3		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.14	765.5	30.37	771.4	55.9	13.3	87	sw.			1		10					overcast	The Staff.
Plymouth	30.30	769.6	30.37	771.4	59.8	15.4	82	se.			3		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.92	760.0	30.12	765.0	50.2	10.1	72						0?					showery!	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.04	763.0	30.10	764.5	59.2	15.1	42	ne.			2		9			blank	blank	gloomy	W. H. Lyne.
Sheffield	30.02	762.5	30.29	769.4	60.8	16.0	88	sw.			2		6			0.03	0.8	d. clouds	W. F. Cooper.
Siloth Rectory	30.20	767.1	30.23	767.8	56.0	13.3	93	wsw.			3		10			0.035	0.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.31	769.9	56.0	13.3	87	wsw.	11	4.9			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					58.7	14.8	80	sw.			0.5		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.28	769.1	30.36	771.1	66	18.9	68	e.			4		0					blue sky	W. Newcombe.
Valencia, Observatory	30.30	769.6	30.33	770.4	55.7	13.2	94	ssw.	14	6.3			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.89	759.2	30.28	769.1	70.8	21.6	55	ne.	3.1	1.4		0	5 n			0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.30	769.6	30.34	770.6	40.0	4.4		sw.	8	3.6		10 cs	0	w.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.38	771.6	30.42	772.7	47	8.3	95	se.	5	2.2		5 c	0	nw.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.34	770.6	30.41	772.4	39	3.9	86	sw.	4	1.8		8 k	2 k	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.91	759.7	30.11	764.8	52.6	11.4	88	e.			1		10 s			inap.	inap.	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.29	764.4	30.34	770.6	39.0	3.9		calm			0		10 s			0	0	overcast	H. A. Johnson.
Edmonton, N. W. T *																		cloudy	Alex. Taylor.
Father Point, Quebec*	30.17	766.3	30.19	766.8	52	11.1	77	s.	20	8.9		5 cs	2 k	s.	s.	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.82	757.4	33	0.6	96	w.	7	3.1		0	5 ks		w.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.36	771.1	30.43	772.9	36.0	2.2	82	s.	1	0.4		7 c	0			0	0	fair	Prof. Thos. Harrison
Grand Manan, N. B	30.36	771.1	30.41	772.4	47	8.3	89	calm	0	0		8 k	0	nw.		0	0	blue sky	J. Chipman Seeley
Granton, Ontario	28.91	734.3	29.99	761.7	57.0	13.9	87	s.	9	4.0		0	0			0	0	fair	Jas. Grant.
Halifax, N. S*	30.30	769.6	30.43	772.9	43	6.1	100	nw.	1	0.4		2 k	sk.			0	0	blue sky	A. Allison.
Hamilton, Ontario	29.59	751.6	29.97	761.2	50.9	10.5	96	sw.			2	0	0			0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.80	756.9	30.14	765.5	55	12.8	80	s.	12	5.4			10 k		s.	inap.	inap.		A. P. Knight, M. A.
Little Glace Bay, N. S	30.41	772.4	30.45	773.4	48.0	8.9	92	sw.			1								C. H. Rigby.
London, Ontario	29.10	739.1	29.90	759.4	57.7	14.3	74	s.			2	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.97	710.4	30.31	769.9	32	0.0	88												John Ewart.
Minnedosa, N. W. T	27.89	708.4	29.84	757.9	30	−1.1	96	nw.	1	0.4		0	8 k		nw.	0.05	1.3	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.98	761.5	30.19	766.8	53	11.7	72	s.	12	5.4			10 s		sw.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.88	758.9	30.10	764.5	52.3	11.3	88	s.					10 ks			0.060	1.5	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.22	742.2	29.90	759.4	55	12.8	93	se.	9	4.0			10 n		sw.	0.11	2.8	light rain	Rev. R. Mosley.
Peterboro, Ontario	29.29	744.0	30.02	762.5	55.7	13.2	74	sw.			1	3 c	0	sw.		0.02	0.5	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.06	738.1	29.76	755.9	47	8.3	86	sw.	3	1.3		5 ck	5 ks	w.		0.59	15.0	clearing	W. P. Cooke.
Port Dover, Ontario	29.35	745.5	30.04	763.0	56	13.3	94	s	6	2.7		0	0			0	0	clear	A. Morgan
Port Stanley, Ontario	29.37	746.0	30.01	762.2	57	13.9	93	se.	8	3.6		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.60	701.0	29.92	760.0	32	0.0	88	nw.	12	5.4		5 ck	5 s	nw.	nw.	inap.	inap.	cloudy	Leslie Gordon.
Quebec, Quebec*	29.85	758.2	30.21	767.3	49	9.4	77	calm	0	0		10 cs	0	w.		0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.50	749.3	29.97	761.2	51	10.6	93	se.	12	5.4			10 s		se.	0.38	9.7	light rain	W. H. M. Lunere.
St. Andrews, N. B	30.34	770.6	30.39	771.9	43	6.1	91	calm	0	0		0	0			0	0	clear	
St. John, N. B	30.26	768.6	30.40	772.1	43.8	6.6	93	se.	1	0.4		2 ck	3 k	n.		0	0	d. clouds	G. Hutchinson.
Saint John's, N. F	30.28	769.1	30.43	772.9	50	10.0	79	sw.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.43	773.0	50.0	10.0		calm			2								The Commandant.
Saugeen, Ontario*	29.18	741.2	29.88	758.9	56	13.3	86	s.	15	6.7		0	hz.			0.44	11.2	clear	
Stratford, Ontario	28.73	729.7	29.99	761.7	55.9	13.3	92	s.	7.0	3.1		0	0			0	0	blue sky	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
CANADIAN.—Continued.																			
S. W. Point, Anticosti	30.28	769.1	30.32	770.1	44	6.7	93	se.			3	0	0			0	0	clear	Miss Grace Pope.
Sydney, C. B.	30.42	772.7	30.49	774.4	36	2.2	92	calm	0	0		0	8 k		se.	0	0	hazy	[illegible], C. E.
Toronto, Ontario*	29.68	753.9	30.06	763.5	50	10.0	96	e.	3	1.3		2 ck	hz	W.		0.02	0.5	fair	Magnetic Observatory.
Woodstock, Ontario	28.99	736.3	30.04	763.0	57.3	14.1	84	e.	17	7.6		0	5 s			0	0	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.32	770.1	30.39	771.9	43	6.1	96	e.	3	1.3		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.80	756.9	29.83	757.7	62.5	16.9	100	sw.	10.8	4.8		0	8 k			0.480	12.2	fine	I. Garfelt.
Springbok Fontein																			J. T. Eustace
CHILIAN.																			
Coquimbo	29.98	761.4	30.06	763.4	57.2	14.0	89	s.			1	10						cloudy	Samuel Redolez.
Iquique																			Rafael Moreno.
Niebla	29.67	753.7	29.78	756.4	50.0	10.0	82	e.			2	0	2 s		s.	0	0		Federico Köhling.
Punta Caldera	29.97	761.1	30.05	763.3	58.1	14.5	81	sw.			1		10 n		sw.			cloudy	Manuel Tobar.
Punta Corona	30.09	764.3	30.28	769.1				nw.			1	10				0	0	cloudy	Francisco Alvarado.
Valparaiso	29.93	760.3	30.08	763.9	57.0	13.9	90	sw.			2	10	0					drizzling	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.34	643.7																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.10	764.5	30.12	765.1	67.5	19.7	91	sw.	1.8	0.8		0	2 k			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.04	763.1	30.09	764.3	59.0	15.0	81	w.	22	10			8						Oversergent Fischer.
Fanoe	30.14	765.6	30.16	766.1	55.9	13.3	89	wsw.			4		10					hazy	Overloerer Lauridsen.
Godthaab, Greenland	30.05	763.2	30.09	764.3	31.8	— 0.1	89	calm			0		8					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.92	759.9	29.97	761.1	22.3	— 5.4		calm			0		7						
Stykkisholm, Iceland	29.61	752.2	29.66	753.3	38.1	3.4	73	sw			6		10						A. O. Thorlacius.
Thorshavn	29.85	758.3	29.88	758.9	45.7	7.6	79	w.	25	11			0?					raining?	Overloerer Bergh.
Vestervig	29.95	760.6	30.04	762.9	55.9	13.3	91	sw.			7		3						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.85	758.2			81.0	27.2		n.	3.8	1.7			10			0	0		Albert Ismatun.
FRENCH.																			
Agen, Normal School	29.71	754.5	30.35	770.9	62.6	17	81	sse.			1	ck				0	0		M. Labroue, Director.
Alençon, Normal School	29.88	758.9	30.43	772.9	50.4	10.2	82	ne.			1		1		sw.	0	0	clear	M. Nicot, Director.
Avignon, Normal School	30.30	769.5	30.37	771.5	65.5	18.6	50	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.80	757.0	30.36	771.1	59.9	15.5	44	sse.			1		0			0	0	clear	M. Saillard, Director
Beauvais, Normal School	30.15	765.7	30.42	772.6	55.9	13.3	66	e.			1		0			0	0	clear	M. Frère Eugène Marie.
Besançon, Normal School	29.37?	745.9?	30.26?	768.5?	46.9	8.3	92	ene.			1		1		n.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.99	761.8	30.25	768.4	63.7	17.6	49	ese.			1		mist			0	0	misty	M. Rayet, Director.
Bourges, Normal School	29.78	756.5	30.34	770.5	59.9	15.5	53	se.			2		cn		se.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.10	764.4	30.34	770.6	68.0	20.0	68	se.			1		0			0	0		M. de Kermarée, Dir.
Caen, Normal School	30.28	769.2	30.36	771.1	61.2	16.2	67	se.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	30.06	763.4	30.38	771.6	62.4	16.9	78	nw.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.89	759.1	30.40	772.2	61.5	16.4	72	ne.			1		0			0	0	clear	M. Noel, Director.
Clermont-Ferrand Obs'y	28.96	735.5	30.30	769.6	64.4	18.0	37	ese.			1		0			0	0		M. Allnard, Director.
Cluny, Normal School	29.54	750.2	30.40	772.2	59.9	15.5	68	se.			1					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.53	750.1	30.39	772.0	58.6	14.8	70	e.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.84	707.2	30.37	771.4	60.3	15.7	56	calm			0		1 n		nw.	0	0		M. Jarach, Director.
Grénasque, du Rhone	29.23	742.4	30.35	770.8	68.2	20.1	33	n.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.60	751.8	30.37	771.3	60.4	15.8	52	sw.			1		0			0	0	clear	M. Ablard, Directoor.
Guéret, Normal School	28.73	729.8	30.31	769.9	60.8	16	50	nw.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.08	764.1	30.36	771.1	59.4	15.2	56	e.			2		1		e.	0	0	clear	M. Ollitrault, Director
Lescar, Normal School	29.65	753.1	30.21	767.4	63.5	17.5	57	ene.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.24	768.1	30.34	770.7	62.6	17.0	57	ene.			1		0			0	0	clear	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.30	744.3	30.37	771.4	57.4	14.1	57	e.			1		0			0	0	misty	M. Andre, Director
Mans, Normal School	30.03	762.8	30.34	770.7	57.2	14	95	se.			1		0			0	0	clear	M. Richard, Director
Marseille, Observatory	30.10	764.4	30.36	771.2	65.8	18.8	46	wsw.			0–1		0			0	0		M. Stephan, Director.
Montlouis	25.06	636.5	29.90	759.5	55.4	13.0	43	sw.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.12	767.7	30.34	770.5	66.9	19.4	68	nw.			2		0			0	0	clear	M. Galzin, Director.
Nancy	29.63	752.6	30.42	772.6	55.4	13.0	73	nne.			1	ck				0	0		M. Hasse, Director.
Nantes, Observatory	30.20	767.1	30.36	771.2	60.3	15.7	56	ne.			1		0			0	0	misty	M. Lareque, Director.
Perpignan, Observatory	30.24	768.0	30.35	770.8	62.1	16.7	72	se.	13.0	5.8			2		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.2			37.8	3.2		sw.			2		5		e.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.30	744.2	30.37	771.3	60.1	15.6	55	s.			1		0			0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.43	645.8			42.4	5.8	49	sse.			4		0			0	0		M. Allnard.
Rochefort, Naval Obs'y	30.24	768.2	30.28	769.0	62.6	17.0	55	e.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.12	765.0	30.34	770.5	62.2	16.8	56	e.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	28.15	715.1	30.29	769.3	61.0	16.1	56	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.37	771.5	30.46	773.7	60.8	16	87	ese.			1		2			0	0	slightly cl'dy	M. Mouillot, Dir.
St Lô	30.27	768.8	30.41	772.5	52.9	11.6	69	e.			1		0			0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.22	767.5	30.38	771.7	60.4	15.8	62	ne.			1		0			0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.56	750.9	30.29	769.4	66.2	19.0	43	sse.			8		1		w.	0	0	clear	M. Baillaud, Director.
Tours	30.16	766.1	30.34	770.6	58.3	14.6	53	n.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.88	759.0	30.37	771.5	58.3	14.6	61	ne.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.12	765.0	30.27	768.8	58.8	14.9	76	e.	9.8	4.4			9 k		w.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.98	736.1	30.44	773.1	57.4	14.1	64	calm			0		8			0	0		Prof. Jnedt.
Bamberg	29.57	751.0	30.42	772.7	58.1	14.5	73	calm			0		4 k			0	0		Prof. Dr. Hoh.
Berlin	30.20	767.1	30.35	770.8	55.4	13.0	85	nw.			2		10			0	0		Dr. Lensch.
Breslau	29.78	756.4	30.32	770.0	56.3	13.5	83	wnw.			4		10			0.012	0.3		Royal University Obs'y.
Carlsruhe	29.95	760.6	30.41	772.4	59.4	15.2	56	ne.			2		2	ne.		0	0		Albert Senz.
Cassel	29.67	753.7	30.39	771.8	56.8	13.8	80	s.			2		10			0.031	0.8		Dr. H. Möhl.
Frankfort-on-the-Main	30.06	763.4	30.42	772.7	55.9	13.3	71	calm			0		9			0	0		Physical Society.
Friedrichshafen	28.94	735.1	30.38	771.7	50.9	10.5	79	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.21	767.4	30.30	769.7	58.3	14.6	80	w.			5		10			0	0		E. Preller.
Kiel	30.22	767.7	30.24	768.1	57.2	14.0	86	wsw.			4		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.97	761.3	30.40	772.1	57.0	13.9	77	wsw.			2		10	sw.		0	0	foggy	H. Leppig, Asst.
Magdeburg	30.17	766.2	30.36	771.1	59.7	15.4	80	wnw.			1		8	w.		0	0		Weather Observatory.
Memel	29.90	759.4	29.95	760.6	60.1	15.6	78	wnw.			6		5 k						Issermann.
Munich	28.54	725.0	30.43	773.0	53.4	11.9	61	e.			2		0			0	0		Central Station.
Neufahrwasser	30.06	763.6	30.08	764.0	59.0	15.0	77	w.			3		2			0	0		A. Lothes.
Neustadt, Palatinate	29.86	758.4	30.38	771.6	57.6	14.2	67	w			2		7			0	0		Dicknether.
Stuttgart	29.45	748.0	30.35	770.9	56.3	13.5	69	ne.			1		3	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.17	766.3	30.20	767.0	55.9	13.3	91	sw.			5		10			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.74	755.4	30.13	765.2	62.8	17.1		ne.			3.0		10			0	0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.80	757.0	29.85	758.3	82.0	27.8	71	w.	26.0	11.6			0			0	0	blue sky	
Deesa	29.32	744.6	29.79	756.6	86.1	30.1	48	ene.	6.0	2.7			3	ene.		0	0	d. clouds	
Bombay	29.82	757.4	29.86	758.3	82.6	28.1	85	nw.	13.0	5.8			10	wsw.	wnw.	0	0	overcast	
Poona, Yarrowda	28.03	711.9	29.90	759.5	73.0	22.8	93	ne.	4.0	1.8			10			0.39	9.9	overcast	
Trichinopoly	29.56	750.7	29.83	757.8	90.1	32.3	53	e.	inap.	inap.			10			0	0	overcast	
Bellary	28.33	719.5	29.78	756.4	83.5	28.6	56	ne.	8.0	3.6			10	ese.		0	0	gloomy	
Belgaum	27.30	693.3	29.83	757.7	76.0	24.4	81	wsw.	7.0	3.1			4	s.	n.	0.03	0.8	d. clouds	
Lahore	29.10	739.1	29.84	757.8	85.0	29.4	47	calm	0	0			0			0	0	blue sky	
Roorkee	28.90	734.0	29.80	756.8	87.8	27.7	56	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.25	742.9	29.80	757.0	89.7	32.1	28	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.78	730.9	29.82	757.4	81.1	27.3	77	calm	0	0			6		e.	0.09	2.3	d. clouds	
Yubbulpore	28.49	723.6	29.84	758.0	80.1	26.7	69	w.	2.0	0.9			10		wnw.	0.75	19.0	gloomy	
Lucknow	29.44	747.8	29.81	757.3	87.1	30.6	30	calm	0	0			0			0	0	blue sky	
Allahabad	29.50	749.2	29.81	757.1	83.0	28.3	56	calm	0	0			3			0	0	d. clouds	
Patna	29.61	752.0	29.79	756.7	85.6	29.8	58	calm	1.8	0.8			4			0	0	d. clouds	
Hazaribagh	27.83	706.9	29.82	757.5	82.5	28.1	40	nnw.	4.5	2.0			0			0	0	blue sky	
Cuttack	29.74	755.4	29.82	757.5	85.0	29.4	68	calm	0	0			1			0	0	blue sky	
Calcutta, Alipore	29.77	756.2	29.79	756.7	86.0	30.0	61	nnw.	4.0	1.8			0			0	0	d. clouds	
Dhubri	29.67	753.6	29.79	756.6	83.5	28.6	79	calm	0.4	0.2			1	w.		0	0	d. clouds	
Chittagong	29.72	754.8	29.81	757.1	82.7	28.2	88	calm	1.5	0.7			4			0	0	blue sky	
Sibsagar	29.48	748.7	29.81	757.2	81.6	27.6	81	ne.	2.0	0.9			0			0	0	d. clouds	
Jeypore	28.41	721.5	29.83	757.6	88.7	31.5	25	w.	5.0	2.2			4		w.	0	0	d. clouds	
Zanzibar	30.01	762.2			84.3	29.1	56	sse.	4.7	2.1			2		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.94	760.4	30.34	770.7	62.4	16.9	42	calm	0	0			0			0	0		Prof. Giovanni Olodig.
Milan	29.85	758.3	30.37	771.4	61.3	16.3	53	w.	4.3	1.9			0			0	0		Prof. G. V. Schiapparelli
Padua	30.25	768.4	30.36	771.2	59.9	15.5	59	ne.	0.7	0.3			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.45	747.9	30.35	770.9	58.1	14.5	58	ne.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	30.16	766.1	30.35	771.0	64.9	18.3	41	sw.	1.3	0.6			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.45	722.7	30.37	771.4	57.0	13.9	50	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.32	770.2	30.37	771.4	59.4	15.2	66	n.	15.4	6.9			0			0	0		Prof. Luigi Guidi.
Florence	30.07	763.8	30.32	770.2	60.8	16.0	55	n.			2					0	0		Prof. Costantino Pittei
Leghorn	30.27	768.6	30.35	771.0	62.8	17.1	51	wnw.	6.9	3.1			0			0	0		Prof. P. Monte.
Rome	30.11	764.7	30.28	769.1	64.4	18.0	35	n.	0.7	0.3			0			0	0		Prof. P. Tacchini.
Lecce	29.94	760.5	30.19	766.9	63.0	17.2	48	nne.	17.4	7.8			3	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.36	745.8	30.24	768.1	64.8	18.2	62	wnw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	30.08	764.0	30.27	768.8	69.4	20.8	72	se.			2		3			0	0		Prof. A. Pacinotti.
Palermo	30.04	763.1	30.29	769.4	67.8	19.9	60	nne.	4.9	2.2			2			0.016	0.4		Prof. G. Caccintore.
Syracuse	30.18	766.5	30.22	767.0	70.1	21.1	51	nne.	8.7	3.9			9	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.74	755.5	30.27	768.8	63.0	17.2	48	ne.	1.3	0.6			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.98	761.4	30.01	762.3	54.0	12.2	97	calm			0	0	8k;ks		w.	0.008	0.2	cloudy	H. Hattori.
Awomori	29.90	759.4	29.94	760.5	56.0	13.8	74	w.	8.8	3.9			7s;ck		w.	0.075	1.9	cloudy	K. Ogawa.
Hamamatsu	29.93	760.2	30.03	762.7	61.8	16.6	77	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.07	763.8	30.08	764.1	62.5	16.9	88	calm			0	0	2 s		se.	0	0	clear	G. Miyanohaza.
Kanazawa	30.00	762.0	30.11	764.7	58.1	14.5	80	se.	5.3	2.3		6c;cs	3 s			0	0	cloudy	S. Endo.
Kioto	29.93	760.1	30.10	764.5	56.9	13.8	90	n.	1.0	0.4		8cs;c	0	sw.		0	0	fair	M. Tojima.
Kochi	30.05	763.3	30.07	763.8	66.1	18.9	75	e.	5.3	2.3		5 ck	0	w.		0	0	fair	K. Kusunose.
Miasaka	30.06	763.5	30.09	764.2	61.7	16.5	93	ese.			1	0	0			0	0	clear	K. Masusaki
Miyako	29.76	755.9	29.87	758.7	61.0	16.1	59	s.	5.4	2.4		0	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.88	758.9	30.8	764.0	64.3	17.9	86	calm	0	0		8 ck	0	sw.		0	0	cloudy	S. Takehayasu
Niigata	30.03	762.7	30.07	763.8	59.4	15.2	87	sw.	10.8	4.8		0	1 ks		sw.	0	0	clear	Satoo & Tomikawa.
Nobiru	29.96	761.0	29.98	761.4	53.7	12.1	90	nw.	2.8	1.2		4 cs	0	w.		0	0	fair	Yoslino & Midzushina.
Numazu	30.00	762.0	30.03	762.8	61.0	16.1	86	ene.			2	7 ck	0	w.		0	0	fair	R. Kaneda.
Osaka	30.07	763.8	30.09	764.2	58.8	14.9	87	ne.	3.7	1.6			10 ck			0	0	cloudy	H. Omura.
Sakai	30.08	764.1	30.09	764.3	57.8	14.3	94	nw.			2	3 c	0	sw.		0	0	fair	Yamawchi & Sakamoto.
Shimonoseki	29.95	760.6	30.09	764.3	64.0	17.8	82	calm			0	0	2 s		sw.	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.96	761.0	30.04	762.9	61.2	16.2	71	n.	7.7	3.4		2 ck	0	w.		0	0	clear	The Staff.
Wakayama	30.03	762.7	30.08	764.0	61.9	16.6	76	ne.	2.2	1.0		10c;ck	0	sw.		0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	73.6	23.1	62	ese.	13.0	5.8			10k;ks		ese.	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.35	618.5	30.00	762.0	60.3	15.7	86	calm	0	0		4 c	3 ck			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.6	77.5	25.3	93	ne.	1.6	0.8		1 cs	1 ks			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.41	772.4	30.41	772.4	59.0	15.0		ssw.			2					0	0		
Groningen	30.28	769.2	30.34	770.6	55.9	13.3		w.			3					0	0		
Helder	30.34	770.7	30.24	770.7	57.6	14.2		wsw.			4					0	0		
Hellevoetsluis	30.41	772.4	30.41	772.4	58.5	14.7	77	wsw.			2					0	0		
Utrecht	30.35	770.9	30.40	772.1	60.6	15.9	73	wsw.			2		10			0	0	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.8			77.9	25.5	88	nw.	0.5	0.2			9			0.413	10.5		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.71	754.5	29.77	756.1	54.7	12.6	93	w.	27	12			10			1.063	27.0		
Brono	29.30	744.2	29.34	745.2	43.2	6.2	78	sw.			2		10			0.264	6.7		
Christiania	29.42	747.3	29.56	750.9	62.8	17.1	59	wsw.	18	8			7			0	0		
Gjæsvær	29.14	740.1	29.16	740.7	34.0	1.1		se.			2		10						
Lodingen	29.16	740.6	29.21	741.8	39.0	3.9	87	w.			4		8			0.220	5.6	light rain	
PORTUGUESE.																			
Angra, Azores					66.6	19.2	85	ne.	3.1	1.4			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.90	759.4	29.98	761.6	70.2	21.2	60	wsw.	7.4	3.3			10			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.58	751.2	29.91	759.6	63.0	17.2	73	sse.	15.0	6.7			8			0.094	2.4		The Staff.
Ponta Delgada, Azores	30.13	765.2	30.20	767.0	67.6	19.8	65	nne.	12.5	5.6			3		w.	0	0		
Saint Paul de Loando	29.74	755.5	29.95	760.6	78.1	25.6	80	w.	0.7	0.3			9			0	0		
San Salvador, Congo	28.15	714.9	29.97	761.3	79.9	26.6	65	calm			0		8			0	0		
Serra da Estrella	25.24	641.1	30.04	763.0	41.2	5.1	100	ese.	28.0	12.5			10			2.850	72.4	foggy	
RUSSIAN.																			
Akmolinski	28.62	727.0	29.67	753.6	61.2	16.2	42	sw.	11	5		7 c	0			0	0		Major K. Lasarew.
Archangel	29.39	746.5	29.41	747.0	32.0	0.0	81	nw.	9	4			9 ks			0	0		Capt. Sseliwerstow
Ashurada	30.03	762.8	29.94	760.4	77.9	25.5	76	nw.	9	4		5 ck	0			0	0		
Astrakhan	30.09	764.3	30.02	762.4	57.0	13.9	42	w.	7	3		0	0			0	0		Capt. Wisganow.
Baku	30.05	763.2	30.00	762.0	65.8	18.8	71	nnw.	22	10		0	6 k;ks			0	0		
Barnaul	29.47	748.4	29.96	760.9	56.5	13.6	50	ssw.	9	4			10			0.102	2.6		Meteorological Obs'y
Bielosersk	29.08	738.7	29.56	750.9	32.0	0.0	71	wnw.	4	2		9 ck	0			0.150	3.8		
Dorpat	29.49	749.0	29.73	755.2	50.7	10.4	68	wsw.	9	4		7 c	0			0	0		Observatory.
Ekaterinburg	28.39	721.0	29.36	745.8	31.3	— 0.4	73	wsw.	18	8			10			0	0		Meteorological Obs'y.
Elisawetgrad	29.65	753.1	30.11	764.7	47.8	8.8	80	wnw.	4	2			10 ks			0	0		
Irkutsk	28.48	723.4	30.13	765.4	47.3	8.5	62	se.			2		5			0	0		
Kasalinsk	29.25	742.9			75.7	24.3	23	ssw.				0	0						
Kasan	29.06	738.0	29.33	744.9	40.3	4.6	65	sw.	20	9			8			0	0		Observatory.
Kem	29.36	745.7	29.41	747.0	34.2	1.2	75	s.	4	2		5 c	0			0	0		
Kertch	30.11	764.9	30.14	765.5	49.3	9.6	47	n.	7	3		0	1 s			0	0		Lagorio & Sastyres.
Kieff	29.34	745.2	29.98	761.4	52.2	11.2	80	w.	11	5			10ks;n			0	0		Observatory.
Koslov	29.10	739.1	29.60	751.9	43.5	6.4	93	wsw.	18	8			10 n			0.236	6.0		
Liban	29.87	758.8	29.90	759.4	56.8	13.8	85	w.	13	6		0	0			0	0		E. Quass.
Lugan	29.74	755.4	29.95	760.6	53.6	12.0	37	wsw.	45	20			1			0	0	light clouds	Meteorological Obs'y.
Moscow	29.10	739.2	29.58	751.3	44.6	7.0	82	nw.	5.6	2.5		0	8 ks			0.079	2.0		Meteorological Obs'y
Nikolaiev	30.07	763.7	30.14	765.5	51.3	10.7	67	sw.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.87	758.7	29.96	760.9	43.0	6.1	76	nw.	4	2		0	1 s						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Pekin, China	29.94	760.5	30.08	764.1	64.4	18.0	85	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.54	750.2	29.87	758.7	77.4	25.2	35	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.30	744.1	29.50	749.2	33.8	1.0	87	ssw.	7	3	.....	.....	10	.....	.....	0.024	0.6	light clouds	Dr. Bergmann.
Pinsk	29.54	750.4	30.04	763.0	52.9	11 6	86	wnw.	13	6	.....	.....	10 s	.....	.....	0.039	1.0	.....	
Poti	29.99	761.8	30.02	762.6	63.7	17.6	86	nw.	9	4	.....	.....	10 n	.....	.....	0.118	3.0	.....	
St. Petersburg	29.58	751.4	29.61	752.0	46.6	8.1	66	wnw.	9	4	.....	0	8 ks;n	.....	.....	0	0	.....	Central Physical Obs'y.
Samarkand	27.55	699.8	29.95	760.6	69.4	20.8	52	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.42	747.2	30.07	763.7	60.3	15.7	39	calm	0	0	.....	.....	7	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.97	761.2	30.18	766 6	55.8	13.2	52	n.	16	7	.....	0	3 s	.....	.....	0	0	.....	
Staroi Bykhov	29.30	744.1	29.84	758.0	57.9	14.4	70	w.	22	10	.....	.....	9 k	.....	.....	0.012	0.3	.....	
Tashkend Laboratory	28.30	718 9	29.91	759.6	74.1	23.5	34	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.56	725.4	29.96	761.0	61.3	16.3	89	ne.	2	1	.....	.....	10	.....	.....	0.094	2.4	raining.	Physical Observatory.
Vernoe	27.47	697.6	29.93	760.2	59.0	15.0	60	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Viatka	28.56	725.4	29.21	741.8	25.3	— 3.7	84	nw.	7	3	.....	.....	10	.....	.....	0.079	2.0	.....	
Warsaw	29.72	754.9	30.15	765.7	55.6	13.1	82	w.	16	7	.....	.....	10 n	.....	.....	0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.60	751.8	29.89	759.1	44.8	7.1	97	sw.	4	2	.....	.....	10	.....	.....	0.217	5.5	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.14	765 5	30.24	768.2	68.0	20.0	76	ene.	41.6	18.6	.....	0	8	.....	.....	0	0	.....	Antonio Molins.
Bilbao, Met. Obs'y	30.15	765.9	30.21	767.4	68.5	20.3	59	se.	2.2	1.0	.....	.....	10	.....	.....	0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.2	30.16	766.0	53.6	12.0	83	ne.	6.3	2.8	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.12	765.0	53.6	12.0	100	s.	9.4	4.2	.....	.....	10	.....	.....	0.720	18.3	rainy	The Staff.
Murcia, Met. Obs'y	29.89	759.2	30.04	762.9	68.5	20.3	76	e.	9.6	4.3	.....	2	7	.....	.....	0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.34	745.2	30.10	764.5	53.6	12.0	89	s.	6.0	2.7	.....	6 n	8 n	s.	s.	0.051	1.3	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.09	738.8	29.97	761.3	61.3	16.3	65	ese.	16.8	7.5	.....	.....	10	.....	.....	0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.6	75.7	24.3	83	se	2.2	1.0	.....	0	1 ks	.....	ese.	0.09	2.2	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.6	29.97	761.1	78.8	26.0	78	ese.	2.2	1.0	.....	4 ck	3 ks	.....	ene.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.08	763.9	65.8	18.8	73	s.	14.0	6.3	.....	.....	10	.....	s.	0.03	0.7	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.87	758.8	29.97	761.1	79.5	26.4	82	se.	4.5	2.0	.....	0	2 k	.....	se.	0	0	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.24	742.7	29.28	743 7	39.6	4.2	77	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.39	746.6	29.45	747.9	43.2	6.2	62	wsw.	.....	.....	2	.....	10	.....	.....	0.051	1.3	.....	
Hernosand	29.45	748.1	29.50	749.4	43.9	6.6	80	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	29.49	749.0	29.67	753.5	61.7	16.5	57	wsw.	.....	.....	6	.....	8	.....	.....	0	0	.....	
Wisby	29.76	756.0	29.82	757.5	56.1	13.4	91	w.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.48	748.8	29.57	751.0	59.7	15.4	70	sw.	15.4	6.9	.....	.....	6	.....	nw.	0	0	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	28.96	735.6	30.39	771.9	53.1	11.7	69	n.	.....	.....	2	.....	1	.....	.....	0	0	clear	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.13	765.2	58.3	14.6	45	nne.	15	6.5	.....	.....	9	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	30.23	767.8	64.0	17.8	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	757.8	82.0	27.8	53	sw.	.....	.....	3	.....	7 k	.....	ssw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.99	685.5	.....	.....	46	7.8	86	calm	.....	.....	0	.....	10 n	.....	calm	0	0	threatening.	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.24	768.1	30.32	770.1	53	11.7	64	s.	3	1.3	.....	7 ck	0	w.	.....	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.12	739.6	29.79	756.7	56	13.3	86	se.	0	2.7	.....	8 cs	2 ks	sw.	w.	1.05	26.7	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 13	638.3	30.03	762.7	25.0	— 3.9	62	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.00	763 5	33	0.6	88	n.	18	8.0	.....	.....	10 n	.....	n.	0.02	0.5	light snow	B. O. Lenoir.
Atlanta, Georgia	29.11	739.4	30.30	769.6	58.0	14.4	80	e.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.28	769.1	30.28	769.1	54	12.2	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.15	765.8	30.34	770.6	55.5	13.1	86	ne.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	Louis Duane.
Baltimore, Maryland	30.30	769.6	30.35	770.9	55.5	13.1	86	e.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.25	768.3	30.27	768.8	60.5	15.8	72	e.	9	4.0	.....	0	0	.....	.....	0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.31	719.1	29.93	760.2	36.0	2.2	92	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.34?	694.4?	30.25?	768.3?	33	0.6	100	n.	23	10.3	.....	.....	10 n	.....	.....	0.20	5.1	snowing	Thomas Morgan.
Bismarck, Dakota	28.04	712.2	29.92	760.0	38.5	3.6	79	ne.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.31	769.9	30.34	770.6	53.5	11.9	76	ne.	13	5.8	.....	2 cs	0	ne.	.....	0	0	clear	J. T. Eiker.
Boise City, Idaho	27.24	691 9	30.10	764.5	42	5.6	86	nw.	4	1.8	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	B. E. Light.
Boston, Massachusetts	30.21	767.3	30.37	771.4	42.0	5.6	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.94	760.5	30.00	762 0	78.0	25.6	90	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	John McGlone.
Buffalo, New York	29.34	745.2	30.10	764.5	59	15.0	70	se.	9	4.0	.....	0	hz.	.....	.....	0.01	0.3	clear	Wm. Finn.
Buford, Fort, Dakota	27.86	707.6	29.91	759 7	43	6.1	83	e.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy.	A. Schneider.
Cairo, Illinois	29.69	754.1	30.09	764.3	69.7	20.9	86	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.04	763.0	30.24	768.1	54.4	12.4	84	w.	15	6.7	.....	.....	10 s	.....	w.	0.48	12.2	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.26	768.6	30.28	769.1	62.0	16.7	87	n.	11	4.9	.....	.....	10 s	.....	n.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	57.0	13.9	86	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.59	751.6	30.25	769.1	55	12.8	100	nw.	22	9.8	.....	.....	fg.	.....	nw.	0	0	light fog	J. J. McLean.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	68.0	20.0	84	ne.	14	6.3	.....	0	9 s	.....	ne.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.18	766.6	30.24	768.1	58.0	14.4	86	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.44	747.8	30.30	769.6	56.0	13.3	83	e.	1	0.4	.....	10 cs	fg.	e.	.....	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.27	768.8	60.0	15.6	84	s.	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	29.98	761.5	40.1	4.5	46	w.	8	3.6	.....	0	7 s	.....	w.	0.27	6.9	fair	E. McGovern.
Chicago, Illinois	29.15	740.4	29.86	758.4	68.0	20.0	84	calm	0	0	.....	5 ck	5 ks	w.	w.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	56	13.3	86	n.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	O. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.12	765.0	62.0	16.7	84	se.	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	L. Dunne.
Cleveland, Ohio	29.33	745.0	30.07	763.8	57.3	14.1	76	se.	12	5.4	.....	1 c	0	w.	.....	0	0	clear	J. B. Newlin.
Columbus, Ohio	29.25	742.9	30.11	764.8	60	15.6	75	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.05	712.5	30.00	762.0	72.4	22.4	84	s.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	O. E. King.
Custer, Fort, M. T	26.70	678.2	29.94	760.5	43	6.1	93	n.	2	0.9	.....	.....	10 n	.....	.....	0.12	3.0	light rain	T. Gibson.
Davenport, Iowa	29.18	741.2	29.84	757.9	67	19.4	90	sw.	11	4.9	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.05	763.3	56	13.3	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington Ty	28.32	719.3	30.12	765.0	51.0	10.6	77	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.08	2.0	cloudy	D. Moore.
Deadwood, Dakota	25.23	640 8	29.91	759.7	40.2	4.6	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.28	769.1	30.30	769.6	59.5	15.3	93	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Denver, Colorado	24.68	626 9	29.94	760.5	38.0	3.3	50	se.	8	3.6	.....	5 ck	0	sw.	.....	0	0	fair	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.91	759.7	57	13.9	80	n.	6	2.7	.....	7 cs	0	sw.	.....	0.02	0.5	fair	F. W. Conrad.
Detroit, Michigan	29.26	743.2	29.97	761.2	61.1	16.2	78	se.	11	4.9	.....	0	0	.....	.....	0	0	clear	E. R. Brace.
Dodge City, Kansas	27.38	695 4	30.01	762 2	43	6.1	76	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.67	738.4	29.79	756.7	68.5	20.3	81	s	5	2.2	.....	.....	10 s	.....	s.	0.47	11.9	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.05	737.9	29.81	757.2	49	9.4	93	w.	4	1.8	.....	0	7 s	.....	sw.	0.35	8.9	fair	N. B. Conger.
Eastport, Maine	30.33	770.4	30.40	772.1	46.8	8.2	93	calm	0	0	.....	4 ck	4 s;hz	.....	.....	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	30.01	762 2	55	12.8	80	w.	14	6.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.34	669.0	30.08	764.0	53.6	12.0	50	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.30	745.7	30.03	764 3	58	14.4	75	s.	17	7.6	.....	1 ck	0	w.	.....	0	0	clear	C. A. Shaw.
Escanaba, Michigan	28.98	736.1	29.65	753.1	57.0	13.9	96	s.	8	3.6	.....	3ck;cs	5 s	sw.	sw.	0.40	10.2	cloudy	George Heatcote.
Galveston, Texas	30.00	762.0	30.04	763.0	79.9	26.6	79	s.	12	5.4	.....	2 cs	3 ks	.....	sw.	0.33	8.4	fair	E. O'C. MacInerney
Grand Haven, Michigan	29.14	740.1	29.82	757.4	64.0	17.8	90	s.	22	9.8	.....	6 cs	3 k	s.	sw.	inap.	inap.	cloudy	Wm. H. Fallon.

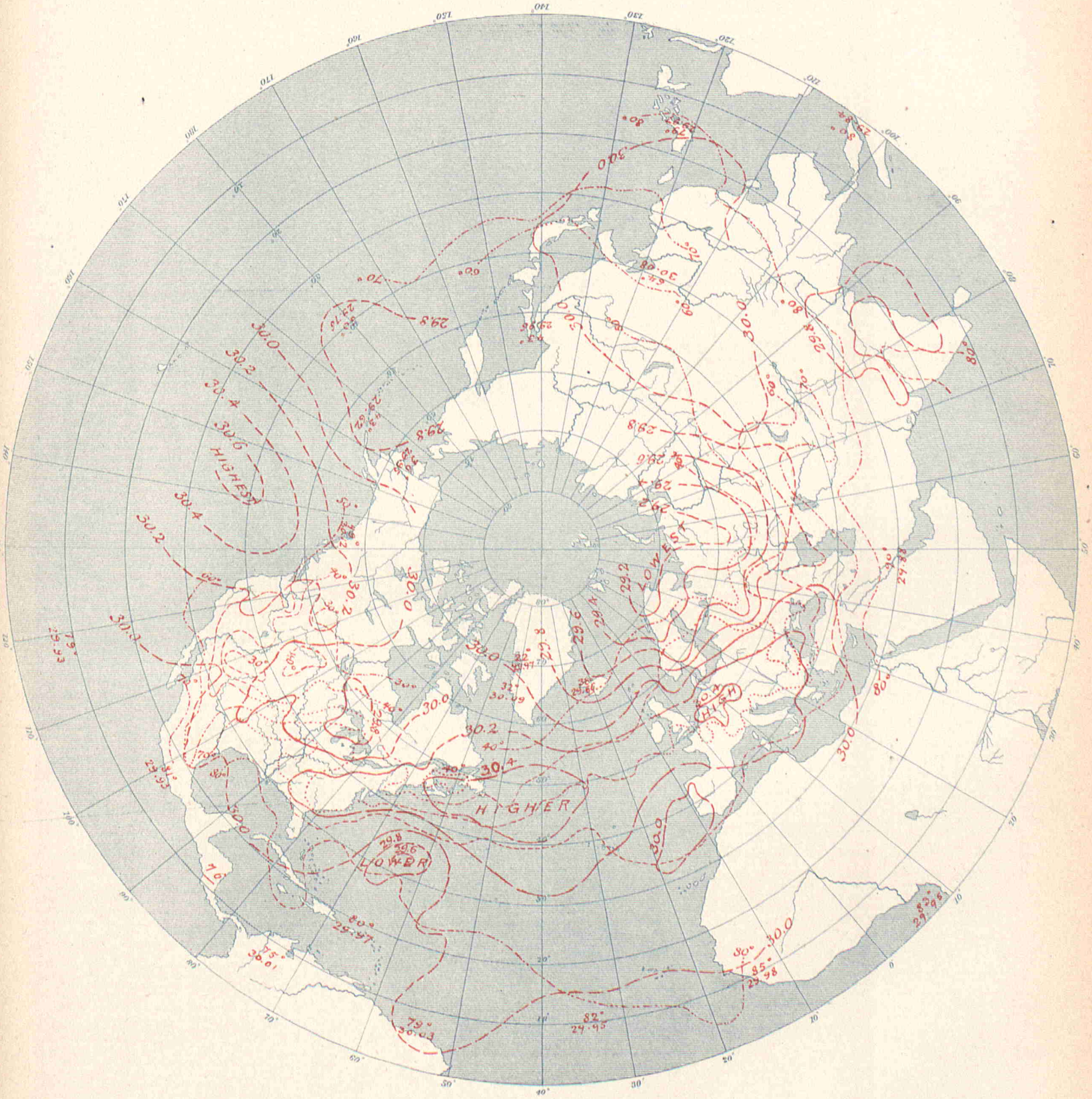
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.30	642.6	30.00	762.0	40.2	4 6	36	ne.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.18	766.6	30.19	766 8	65.0	18.3	93	ne.	12	5.4		6 c	0	e.		0	0	fair	R. M. Crawford.
Helena, Montana	25.71	653.0	30.01	762.2	35	1.7	89	n.	12	5.4			10 n			blank	blank	light snow	J. H. Jones.
Huron, Dakota	28.52	724 4	29.95	760.7	44.8	7.1	83	nw.	3	1.3		0	1 s			0.01	0.3	clear	S. W. Glenn.
Indianapolis, Indiana	29.21	741.9	30.01	762.2	63.0	17.2	84	s.	4	1.8		5 cs	hz.			0	0	fair	C. F. R. Wappenhans.
Indianola, Texas	29.99	761.7	30.02	762.5	77.4	25.2	91	se.	10	4.5		0	2 ks			0.01	0.3	clear	I. A. Reed.
Jacksonville Florida	30.15	765 8	30.19	766.8	62.5	16.9	88	n.	6	2.7		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.23	742.4	29.90	759.4	68.0	20.0	90	sw.	10	4.5			10 n		sw.	0.14	3.6	light rain	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	78	25.6	76	ne.	13	5.8		0	5 k		ne.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.24	768.1	30.26	768.6	65	18.3	78	ne.	23	10.3		0	3 k		ne.	0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.22	742.2	30.26	768.6	56.2	13.4	100	calm	0	0			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.01	736.8	29.80	756.9	58	14.4	80	w.	6	2.7			10 s		w.	0.58	14.7	cloudy	S. C. Emery.
Leavenworth, Kansas	29.05	737.9	29.95	760.7	60	15.6	84	nw.	4	1.8			10 s			0.24	6.1	cloudy	T. S. Outram.
Lewiston, Idaho	29.16	740.7	30.00	762.0	54.5	12.5	65	w.	6	2.7		0	6 s			0.30	7.6	fair	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.04	763.0	70.0	21.1	90	sw.	2	0.9		3 ck	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.73	755.1	30.13	765.3	52	11.1	59	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.09	764.3	66	18.9	84	se.	8	3.6		0	sk.			0	0	clear	L. M Dey.
Lynchburg, Virginia	29.59	751.6	30.28	769.1	57.0	13.9	74	calm	0	0		10 k	0	w.		0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.03	737.3	29.70	754.4	65.1	18.4	93	s.	8	3.6			10 s		sw.	1.04	26.4	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.20	767.1	30.21	767.3	60.0	15.6	93	nw	19	8.5		0	9 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.48	647.2	30.02	762.5	30	— 1.1	80	nw.	20	8.9			10 n		nw.	inap.	inap.	light snow	F. Burke.
Marquette, Michigan	28.91	734.3	29.65	753.1	57.0	13.9	93	n	5	2.2			10 s			0.23	5.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.73	755.1	30.07	763.8	70	21.1	84	se.	4	1.8		hz.	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.03	737.3	29.79	756.7	68.4	20.2	70	sw.	14	6.3		6 cs	2 ks	sw.	sw.	0	0	cloudy	W. Linn.
Mobile, Alabama	30.13	765.3	30.17	766.3	76	24.4	82	se.	10	4.5		0	8 k		se.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.00	762.0	30.23	767.8	66	18.9	73	se.	8	3.6		2 cs	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.88	733.5	29.90	759.4	40	4.4	82	n.	7	3.1		0	0			0.02	0.5	clear	H. Bessant.
Mt. Washington, N. H.	24.07	611.4	30.41	772.4	36.5	2.5	87	sw.	12	5.4		7c;ck;cs	0	nw.		0	0	fair	S. W. Beall.
Nashville, Tennessee	29.56	750.8	30.14	765.5	67.0	19.4	81	se.	5	2.2		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.22	767.6	30.34	770.6	48.7	9.3	93	ne.	3	1.3		2 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.32	770.1	30.37	771.1	47.8	8.8	83	n.	2	0.9			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	75.5	24.2	90	se.	3	1.3		0	0			0	0	clear	M. Herman.
New York, New York	30.17	766.3	30.35	770.9	55.1	12.8	81	e.	4	1.8		0	fg.			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.22	767.6	30.25	768.3	61.0	16.1	90	n.	2	0.9		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.04	686.8	30.00	762.0	35.6	2.0	77	s.	4	1.8		0	1 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.18	766.6	30.22	767.6	53.0	11.7	86	s.	1	0.4			10 s			inap.	inap.	cloudy	J. Dascomb.
Omaha, Nebraska	28.79	731.3	29.99	761.7	47.3	8.5	83	nw.	3	1.3		0	0			0.01	0.3	clear	A. Pollak
Oswego, New York	29.82	757.4	30.16	766.1	54.5	12.5	74	se.	10	4.5		7ck;cs	hz.	nw.		0	0	fair	J. G. Linsley
Palestine, Texas																			L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.18	766 6	73.8	23.2	82	e.	11	4.9		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	30.24	768.1	30.34	770.6	52.5	11.4	90	ne.	3	1.3		4 ck	4 ks	ne.	ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.73	450.3	30.01	762.2	15	— 9.4	76	nw.	12	5.4		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.40	746.7	30.22	767.6	51.0	10.6	86	calm	0	0			fg.			0	0	dense fog	G. C Schaeffer.
Port Huron, Michigan	29.25	742.9	29.94	760.5	60.0	15.6	75	s	15	6.7		3 c	0	sw		0	0	clear	M. H. Perry
Portland, Maine	30.31	769 9	30.36	771.1	48.5	9.2	89	calm	0	0			fg.			0	0	dense fog	W. W. Eichelberger.
Portland, Oregon	30.17	766.3	30.24	768.1	54.0	12.2	90	w.	3	1.3			10 s		s.	0.14	3.6	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.88	631.9	30.05	763.3	31.0	— 0.6	74	w.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.32	770.1	30.35	770.9	52	11.1	80	ne.	3	1.3		2 c	0			0	0	clear	O. N. Kitchel.
Red Bluff, California	29.84	757.9	30.20	767.1	59	15.0	81	n.	5	2.2		0	5 ks		n.	0	0	fair	J. R. Williams.
Rio Grande City, Texas	29.80	756.9	30.04	763.0	74.4	23.6	89	se.	5	2.2		0	0			0	0	clear	Fred. Belford.
Roseburg, Oregon	29.74	755 4	30.30	769.6	55	12.8	93	calm	0	0			9 s		sw.	0.07	1.8	threatening	J. J. Nanry.
Sacramento, California	30.11	764.8	30.19	766.8	55.0	12.8	77	se.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.38	746.2	30.00	762.0	71.0	21.7	82	w.	16	7.2			10 ks		w.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.92	760.0	29.95	760.7	35.5	1.9	73	e.	15	6.7		2 cs	0	e.		0	0	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.97	735.8	29.84	757.9	52.0	11.1	80	nw	5	2.2		0	3 s		nw.	0.02	0.5	clear	P. F Lyons.
St. Vincent, Minnesota	28.96	735.6	29.86	758.4	35	1.7	89	sw.	1	0.4		0	3 s			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.68	652.3	30.08	764.0	48	8.9	71	calm	0	0			10 s			0	0	threatening	J. Craig.
San Diego, California	30.02	762.5	30.09	764.3	53.7	12.1	61	ne.	6	2.7		0	0			0	0	clear	F. R. Day.
Sanford, Florida	30.06	763.5	30.11	764.8	73.5	23.1	73	ne.	7	3.1		0	2 ks		e.	0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.36	745.7	30.05	763.3	62	16.7	78	sw.	17	7.6		0	0			0	0	clear	B. F. Heugh.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	57.0	13.9	86	e.	8	3.6		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.12	765.0	30.19	766.8	53.5	11.9	93	sw.	1	0.4		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.17	766.3	30.26	768.6	57	13 9	81	n.	4	1.8		0	2 ks		n.	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26 39	670.3	30.09	764.3	31	— 0.6	100	n.	14	6.3			10 n			0.11	2.8	light snow	S. W. Morrison.
Shreveport, Louisiana	29.78	756.4	30.02	762.5	74.3	23.5	89	s.	4	1.8			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W M. Mattingly
Sitka, Alaska	30.05	763 3	30.12	765.0	49	9.4	56	e.	2	0.9		0	4 s		e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.55	750.6	30.03	762.7	70.0	21.1	90	w.	8	3.6			10 s		w.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.19	766.8	30.23	767.8	56.0	13.3	77	n.	10	4.5			9 s		e.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.09	764.3	45	7.2	86	w.	2	0.9		0	4 ks		sw.	0.07	1.8	fair	John F. Hemenway.
Springfield, Illinois	29.29	744.0	29.98	761.5	69.5	20.8	84	w.	15	6.7			10 n		w.	0.08	2.0	thund'r st'm	T. B. Jennings.
Stockton, Fort, Texas	27.00	685.8	30.03	762.7	60.0	15.6	93	sw.	4	1.8		6 cs	0			0.02	0.5	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	30.08	764.0			48.8	9.3	100	calm	0	0			fg.			0.19	4.8	dense fog	R. Connor.
Thomas, Camp, Arizona					36	2.2	49	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.27	743.4	29.97	761.2	63	17.2	78	s.	10	4.5		0	0			0	0	clear	A. Buell.
Unalashka, Alaska	29.60	751.8	29.62	752.3	43	6.1	83	nw.	8	3.6			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona					38	3.3	60	nw.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	70.0	21.1	78	se.	9	4.0		1 c	hz.	n.		0	0	clear	James Keneally.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.22	767.6	30.34	770.6	46.8	8.2	95	calm	0	0		6 k	fg.	ne.		0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.03	661.2	29.96	761.0	32.5	0.3	94	w	2	0.9		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.19	766.8	30.25	768.3	57.0	13.9	86	n.	7	3.1		4 c; k	0			0	0	fair	Samuel A. Haney.
Yankton, Dakota	28.62	726.9	29.95	760.7	42.8	6.0	88	nw.	4	1.8		0	0			inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.92	760.0	30.06	763.5	51.5	10.8	64	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		nw.			4	1 cs	2 k		n.	0.32	8.1	threatening	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			53.6	12.0	85	n.	2	0.9			10 s;n		nw.	0.098	2.5		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.97	761.2	75.0	23.9	87	n.	1	0.4		7 cs	3 s	e.	e.	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.03	762.7	79	26.1	78	se.			3	4 c	0	e.		0	0	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	75	23.9	94	s.			1	4 ck	6 ks	calm	calm	0.06	1.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					76	24.4	86	calm			0		2 ks		ne.	0	0	clear	Earl Flint.
York Factory, B. A.	29.89	759.2	29.95	760.7	27.5	— 2.5	94	nw.	14	6.3		3 k	2 s	nw.	nw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 40° 48′, E. 24° 43′	30.23	767.8	62	16.7	56	e.			1		10	e.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.51	749.5	75	23.9	81	nne.			3		7	nne.						squally.
H. M. S. Himalaya, N. 37° 06′, W. 9° 00′	29.93	760.2	69	20.6	80	ssw.			2									
H. M. S. Iris, N. 31° 12′, E. 29° 48′	29.99	761.7	76	24.4	82	wnw.			5		3					3	wnw.	squally.
H. M. S. Orontes, N 24° 46′, W. 21° 21′	30.13	765.3	74.5	23.6	81	ssw.			1		0							blue sky.
H. M. S. Opal, N. 3° 37′, E. 3° 37′	30.00?	763.5?	78	25.6	86	sse.			1		6	wnw.				2	nnw.	d. clouds.
H.P. M. S. Duoro, St. Thomas, W. I.	29.95	760.7	83.3	28.5	81	nnw.			1		6		sw.	7 h'r	7 h'r	1	nw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.30	769.6	45	7.2	84	calm	0	0			10			0	0			foggy.
U. S. S. Alliance, Portland, Maine			49	9.4	93	s.			1		10							foggy.
U. S. S. Jamestown, N. 22° 55′, W. 55° 05′	30.00	762.0	80	26.7	91	sw.			5		5					mod.	sw.	fair.
U. S. S. Kearsarge, N 35° 55′, W. 5° 43′	30.07	763.8	70	21.1	61	ssw.			2		8		ssw.			long	e.	fair.
U. S. S. Lancaster, Gibraltar, Mediterranean	30.05	763.3	63	17.2	94	sse.			1		5		s.			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I.			52	11.1	86	nne.			2		8		calm			sm'h		fair.
U. S. S. Powhatan, Cow Bay, C.B	30.48	774.2	52	11.1	86	se.			3		2		sse.					clear.
U.S. S. Quinnebaug, Leghorn, Italy	30.40	772.1	64	17.8	83	ne.			1		0							clear.
U. S. S. Pinta, New York, N. Y.	30.35	770.9	58	14.4	88	calm			0		0							hazy.
U. S. S. Saratoga, New York, N. Y	30.35	770.9	55	12.8	87	ne.			2		2		ne.	0	0	sm'h		fair.
U. S. S. Swatara, Boston, Mass.	30.35	770.9	47	8.3	85	calm			0		10		calm	0	0	sm'h		foggy.
U. S. S. Vandalia, Gardiner's Bay, L. I.	30.33	770.4	55	12.8	87	e.			1		5							fair.
S. S. British Crown, N. 51° 54′, W. 22° 38′ †	30.41	772.4	55	12.8		n.			3		3		n	0	0	sli't	w.	clear.
S. S. British Prince, N. 41° 56′ W. 64° 42′			58	14.4		ne.			5		2		ene.	0	0	mod.	ene.	clear.
S. S. Lord Clive, N. 38° 55′, W. 74° 28′						ne.			3		0			0	0	mod.	se.	fine.
S. S. Lord Gough, N. 51° 20′, W. 10° 50′	30.24	768.1	57	13.9		var.			1		10			0	0	sm'h		overcast.
S. S. Ohio, N. 49° 16′ W. 37° 54′†	30.56	776.2	51	10.6	86	ene.			3		8		e.	1 h'r	1 h'r	sm'h	n.	cloudy.
S. S. Prussian, Boston, Mass	30.36	771.1	48	8.9		nne.			1		0			0	0	sm'h		clear.
S. S. Scandinavian, N. 45° 52′, W. 48° 59′	30.58	776.7	49	9.4		e.			1		10	wsw.	ese.	0	0	sm'h	var.	threatening.
S. S. Sardinian, N. 55° 52′, W. 37° 44′	30.20	767.1	45	7.2		wsw.			6		3		wsw.	0	0	mod.	wsw.	clear.
S. S. Andes, Kingston, Jamaica, W.I* †	29.95	760.7									10							cloudy.
S. S. Ailsa, Kingston, Jamaica, W.I			83	28.3	?	calm			0		2		e.	0	0	sm'h		fine.
S. S. Avilla, N. 32° 11′, W. 74° 04′			75	23.9		n.			6		4		n.	rain	rain		n;ne	
S. S. Dorian, Malaga, Spain	30.06	761.5																fine.
S. S. Furnesia, New York, N. Y †.	30.32	770.1	68	20.0	84	ene.			1									clear.
S. S. Carroll, N. 45° 57′, W. 62° 00′ *†	30.50?	774.7?	54	12.2	80	s.			2		2		ssw.	0	0	sm'h		clear.
S. S. Jerome, N. 23° 52′ W. 61° 23′*	29.91	759.7	82	27.8		sw.			5		3		w.	0	0	r'gh	wnw.	clear.
S. S. Llandaff City, N. 49° 08′, W. 36° 24′			60	15.6		var.			1		9		w.	0	0	sm'h		cloudy.
S. S. Bothnia, N. 40° 51′, W. 70° 17′	30.30	769.6	62	16.7	88	nne.			2		2		nne.	0	0	sm'h		clear.
S. S. Pavonia, N. 50° 46′, W. 22° 44′*	30.32	770.1	58	14.4	76	n.			4		2		ne.	1 h'r	1 h'r	sli't	ne.	
S. S. Scythia, N. 49° 00′, W. 30° 15′	30.42	772.7	59	15.0	82	nne.			2		3		ne.	0	0	sm'h		
S. S. Samaria, N. 46° 25′, W. 40° 10′*	30.41	772.4	62	16.7		ne.			3		7		ene.	0	0	sm'h		cloudy
S. S. Canada, N. 49° 52′, W. 24° 38′			68.0?	20.?		n.			4		10		n.	0	0	sm'h		covered.
S. S. Bohemia, Hamburg, Germany*†	30.30	769.6				w.			3–5		8		w.	0	0			cloudy.
S. S. Gellert, Hamburg, Germany			58	14.4	88	w.			3		8		w	0	0			cloudy.
S. S. Lessing, N. 50° 30′, W. 29° 00′	30.33	770.4	60	15.6		nnw.			5		6		nnw.	0	0	mod.	nw.	cloudy.
S. S. Rugia, N. 47° 58′, W. 41° 26′	30.46	773.7	55	12.8		ene.			2		8		ene.	rain	rain	sm'h	e.	squally.
S. S. Silesia, New York, N. Y.	30.34	770.6	52.5	11.4		ne.			1				n.	0	0			hazy.
S. S. Westphalia, Hamburg, Germany			57	13.9	87	nw.			4		7		nw.	0	0			fair.
S. S. Nessmore, N. 42° 00′, W. 55° 03′	30.32	770.1	62	16.7	94	ene.			5		10		e.	0	0	r'gh	ene.	cloudy.
S. S. Hevelius, Liverpool, Eng †	30.30	769.6	59	15.0		nw.			3				nw.	4 h'r	4 h'r			clear.
S. S. Rosse, Cape La Hague, France*	30.34	770.6	62	16.7		calm			0		0			0	0	sm'h		fine.
S. S. Rio Grande, N. 25° 39′, W. 85° 13′†	30.10	764.5	82	27.8		ene.			5		3		ene.	0	0	mod	ene.	clear.
S. S. Chalmette, N. 38° 22′, W. 74° 10′†	30.24	768.1	61	16.1		ne.			4		1		ene.	1 h'r	1 h'r	long	ene.	clear.
S. S. New York, N. 25° 00′ W. 84° 00′*†	30.08	764.0	82	27.8		ene.			5		2		ese.	0	0	r'gh	se.	clear.
S. S. Alleghany, Norfolk, Va†	30.33	770.4	66	18.9		ne.			2		0			0	0			clear.
S. S. Archimede, N. 37° 42′, W. 68° 26′†	30.08	764.0	74	23.3		nne.			6		5		nne.	2 h'r	2 h'r	h'vy	ne.	fair.
S. S. City of Merida, N. 33° 00,′ W. 77° 40′ *†	30.20	767.1	72	22.2		n.			4		10		n.	0	0	cross	nne.	cloudy.
S. S. Denmark, N. 49° 43′ W. 67° 30′			61	16.1		se.			2		7?			0	0	sli't.	nw.	clear?
S. S. Grecian, N. 48° 54′, W. 67° 32′	30.25	768.3	41	5.0	91	ese.			2		8		ese.	0	0			cloudy.
S. S. England, N. 46° 12′, W. 41° 22′	30.47	773.9				var.			1		8		sw.	sh'rs	sh'rs	sm'h		cloudy.
S. S. Erin, London, Eng			56	13.3		wsw.			2		10		s.	0	0			overcast.
S. S. Greece, N. 44° 08′, W. 41° 57′			62	16.7	88	nne.			6		4		ene.	0	0	mod.	var	d. clouds.
S. S. Holland, N. 47° 23′. W. 31° 03′	30.41	772.4	63	17.2		ene.			4		8		wsw.	1 h'r	1 h'r	cross	w.	cloudy.
S. S. The Queen, N. 51° 20′, W. 9° 00′			55	12.8		wsw.			2		8		se.	0	0	sm'h		gloomy.
S. S. America, N. 37° 25′ W. 75° 00′*	30.27	768.8	62.0	16.7	83	ne.			2		1		ne.	0	0			clear.
S. S. Donau, N. 45° 28′, W. 50° 55′	30.57	776.5				sse.			3		8		se.	0	0	sm'h	sse.	cloudy.
S. S. Elbe, Bremerhaven, Germany	30.26	768.6	56.3	13.5	88	w.			3		4?		w.	0	0			cloudy?
S. S. Habsburg, N. 40° 39′, W. 70° 17′	30.34	770.6				ne.			4		0			0	0	sm'h	ne.	clear.
S. S. Hohenstaufen, N. 39° 34′ W. 13° 05′	29.88	758.9	62.6	17.0		e			4		10		ne.	driz	driz.	long	ne.	covered.
S. S. Orinoco, Bermuda, Atlantic			76	24.4		ne.			3		7		ne.	2 h'r	2 h'r			fair
S. S. Ohio, N. 40° 29′, W. 23° 29′	30.24	768.1				nne.			5		10		nne.	2 h'r	2 h'r	mod	nne.	rainy.
S. S. Rhein, N. 42° 23′ W. 57° 04′	30.36	771.1				e.			5		5		e.	0	0	cross	e.	fair
S. S. City of Augusta, New York, N. Y.	30.34	770.6				calm			0		4							smoky.
S. S. Muriel, Saint Thomas, W. I.			82	27.8		ese.			3		0			3 h'r	3 h'r	sm'h		clear.
S. S. Rhynland, N. 49° 56′ W. 7° 33′	30.39	771.9	57	13.9		e.			2		3		e.	0	0	sm'h	w.	clear.
S. S. Pennland, N. 42° 56′, W. 57° 05′†	30.38	771.6	60	15.6		e.			4		4?		se.	0	0	sm'h		cloudy?
S. S. Switzerland, N. 43° 32′, W. 59° 31′ *†	30.43	772.9				e.			1		2		se.	0	0	long	s.	clear.
S. S. Vaderland, N. 49° 05′, W. 32° 00′	30.45	773.4	65	18.3		var.			3		9		n.	0	0	light	wnw.	cloudy.
S. S. Waesland, N. 50° 42′, W. 16° 05′	30.35	770.9	60	15.6		wsw.			2		9		n.	1 h'r	1 h'r	long	wsw.	cloudy.
S. S. Leerdam, N. 49° 39′, W. 11° 46′*	30.32	770.2	61.7	16.5	86	sw.			2		0			0	0	2	sw.	clear.
S. S. Schiedam, N. 45° 25′, W. 49° 07′			55.6	13.1	83	ene.			2		0			0	0	sm'h		clear.
S. S. Zaandam, New York, N. Y.	30.32	770.1	57.6	14.2	89	e.			2		3		e.	0	0			clear.
S. S. W. A. Scholten, New York, N. Y	30.37	771.4	57.2	14.0	89	ene.			4		5		ene.	0	0			hazy.
S. S. Valencia, Puerto Cabello, Venezuela*†	29.89	759.2	60	26.7	87	nw.			1		8		calm	0	0			cloudy.
S. S. State of Georgia, N. 49° 28′, W. 46° 30′	30.53	775.4	48	8.9		w.			3		8		w.	0	0	sm'h		cloudy.
S. S. State of Indiana, N. 54° 28′, W. 23° 14′			51	10.6		wnw.			3		3		nw.	4 h'r	4 h'r	cross	var.	clear.
S. S. Thingvalla, New York, N. Y†	30.29	769.4	57.2	14.0		n.			2		2		n.	0	0			clear.
S. S. Otranto. N. 49° 50′, W. 35° 08′			58	14.4		wsw.			2		5		w.	0	0	sm'h	sw.	fair.
S. S. Romano, off Sandy Hook, N. J			41	5.0					2		1			0	0	sm'h		fine.
S. S. Salerno, N. 49° 43′, W. 8° 56′			58	14.4		s.			2		3		se.	0	0	sm'h	sw.	clear.
S. S. Dominion, N. 51° 43′, W. 53° 08′ *†	30.34	770.6	44	6.7		sw.			2		8		sw.			sm'h	ssw.	cloudy.
S. S. Quebec, Montreal, Canada			56	13.3		ssw.			1		9		wsw.	0	0			cloudy.
S. S. Texas, N. 56° 20′, W. 24° 20′*†	30.10?	764.5?	54	12.2	93	w.			3		2		w.	0	0	long	w.	clear.
S. S. Olbers, N. 26° 42′, W. 63° 38′	29.83	757.7	81	27.2	87	w.			6		5		w.	2 h'r	2 h'r	r'gh	w.	fair.
S. S. Daniel Steinmann, N. 44° 56′, W. 53° 29′†	30.52	775.2	54	12.2		se.			2		10			0	0	sm'h		overcast.
S. S. Adriatic, N. 45° 11′, W. 52° 40′			49	9.4		se.			4				s.			mod.	s.	clear.
S. S. Celtic, N. 41° 54′, W. 52° 47′			58	14.4		e.			4		10		e.	0	0	sm'h		overcast.
S. S. Iowa, N. 51° 43′, W. 25° 00′ †	30.40	772.1	55	12.8		nne.			4		3		nne.	0	0	light	s.	clear.
S. S. Assyrian Monarch, N. 41° 14′, W. 68° 17′	30.38	771.6				ne.			5		0			0	0	mod.	ne.	clear.
Bk. Arda, N. 25° 43′. W. 30° 10′ †	30.06?	763.5?				ne.			1		2		e.	0	0	mod	e.	clear.
Bk. Alpheus Marshall, N. 5° 42′, W 17° 48′ *†	29.92	760.0	77	25.0	95	s.			2		10		s.	1 h'r	1 h'r	mod	se.	raining.
Bk. Ariadne, N. 56° 00′, W. 25° 27′			50	10.0	79	w.			5		4		w.	0	0	mod.	wsw.	fair.
Bg. Abbie Clifford, N. 26° 23′, W. 62° 03′ †	29.87	758.7	79	26.1		wsw.			3		6		wsw.	¼ h'r	¼ h'r	con.	var.	
Schr. Arthur Burton, Rattle Snake Light, S. C†	30.25	768.3				nne.			5		2		nne.	0	0	r'gh	nne.	fine.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.34	770.6	57	13.9		calm			0									cloudy.
S. S. Antonio Lopez, Cadiz, Spain *	30.03	762.7	65.5	18.6	78	s.			4	8 c				1 h'r	1 h'r			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Schr. Adda Doane, N. 23° 23′, W. 55° 24′ *†	30.03	762.7				sw.			3		2		sw.	2 h'r	2 h'r	mod.	sw.	clear
Bg. Belle of the Bay, Galveston, Texas†	30.03	762.7				s.			6		7		sw.	light	light			fair.
S. S. Benledi, N. 35° —′, E. 19° 45′*	30.07	763.8	72	22.2	71	n.			4–5		8		nw.	o	o	r'gh	nnw.	cloudy.
S. S. Burswell, N. 42° 19′, W. 10° 21′ *†	30.02	762.5	63	17.2		e.			2		10		calm	1 h'r	1 h'r	str'g	ene.	overcast.
Bk. Ceylon, N. 9° 26′, W. 34° 13′†	29.95	760.7	82	27.8	91	s.			4		9		sse.	6 h'r	6 h'r	mod.	ssw.	squally.
Schr. Clotilde, N. 28° 23′, W. 75° 49′†	30.06	763.5	82	27.8		ne.			4		5		ne.	2 h'r	2 h'r	r'gh	ne.	fair.
Schr. C. R. Flint, Demerara, British Guiana	30.00	762.0	82	27.8		e.			2		4		ene.	1 h'r	1 h'r			fair.
S. S. D. J. Foley, Kingston, Jamaica, W. I.*†	29.94	760.5	86	30.0	84	ese.			2		3		ese.	3 h'r	3 h'r			clear.
Bk. Diamant, N. 49° 08′, W. 18° 20′	30.37	771.4	57.7	14.3	89	ssw.			1		4					3	w.	fair.
S. Dynomene, N. 9° 54′, W. 24° 45′	29.97	761.2	79.5	26.4	95	s.			3		9			mod.	mod.	light	sse.	showery.
S. E. J. Spicer, N. 45° 02′, W. 29° 02′	30.33	770.4	66	18.9	94	s.			3		10		wsw.	12 h'r	12 h'r	mod.	nw.	raining.
S. Festina Lente, N. 45° 54′, W. 50° 39′	30.50	774.7	49	9.4		se.			1		7		ene.	o	o	sm'h		fair.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass†	30.30	769.6	50	10.0	100	ene.			1		8†		calm	o	o			clear ?
S. Gatherer, N. 48° 28′, W. 19° 15′*	30.33	770.4	62	16.7	66	calm			0		3		var.	o	o	sm'h	n.	clear.
Bg. George, N. 31° 37′, W. 72° 04′*†	30.02	762.5	76	24.4		nne.			6		2		nne.	o	o	r'gh	ne.	fair.
Bk. Galeon, N. 21° 04′, W. 45° 40′ †	30.05	763.3	81	27.2		ese.			2		3		ese.	rain	rain	long	nw.	blue sky.
Bk. Hattie G. McFarland, New York, N. Y.†	30.35	770.9	44	6.7		e.			2		0			o	o			smoky.
S. Hedwig, N. 20° 19′, W. 49° 01′	30.09	764.2	84.6	29.2	73	ese.			3		3		ese.	o	o	3		fine.
Bk. Heinrich & Tonio, N. 50° 00′, W. 3° 15 †	30.38	771.6	66.5	19.2		s.			1–2		0			o	o	sm'h		clear.
Schr. Isabel Alberto, Cedar Keys, Fla †	30.21	767.3				ne.			5		2		ne.	o	o			clear.
Bk. Ibis, N. 36° 10′, W. 73° 30′			70	21.1		ne.			6		9		ne.	2 h'r	2 h'r	h'vy	ene.	squally.
Bk. John H. Pearson, N. 35° 40′, W. 8° 07′						sw.			5				sw.	1 h'r	1 h'r	r'gh	ssw.	cloudy.
Schr. Jas. Slater, N. 29° 50′, W. 64° 38′†	29.80	756.9				var.			6		5		var.	1 h'r	1 h'r	r'gh	nw.	squally.
Bg. Josefa, N. 45° 45′, W. 59° 00′ †	30.40	773.7				ese.			2		1		e.	o	o	sm'h		fair.
Bkt. Kryolith, N. 39° 28′, W. 72° 50′						e.			3					o	o	long	ese.	clear.
Bk. Lady Hincks, N. 33° 10′. W. 63° 10′ *†	29.60	751.8									10		ene.	15 h'r	15 h'r	high	ene.	hazy.
Bg. Lillian, N. 21° 56′, W. 63° 45′†	29.94	760.5	80	26.7		sw.			4		3		sw.	o	o	r'gh	var.	squally.
Bg. L. & W. Armstrong, Delaware Breakwater, Del.*†	30.26	768.6				nne.			1		1		ne.	o	o	sm'h		clear.
S. S. Madrid, Kertch, Russia †	30.10	764.5	50	10.0	72	n.			2		2		n.	o	o			fair.
Bk. Matthias, N. 39° 54′, W. 51° 53′*†	30.34	770.6	71.0	21.7		e.			3–4		6		ese.	o	o	4	var.	threatening.
Schr. Norena, N. 34° 55′, W. 67° 22′ *†	29.95	760.7				nne.			6		9		nne.	4 h'r	4 h'r	r'gh	var.	squally.
Bk. National Eagle, N. 36° 35′, E. 15° 00′						se.			2		2		s.	o	o	sm'h		clear
S. S. Radnorshire, N. 37° 36′, E. 4° 06′						e.			8		8		ene.	o	o	mod.	ene.	clearing.
Schr. Rollin Sanford, Milton, Fla.†	30.17	766.3				ne.			1		2		calm	o	o			fair.
Bg. Rising Sun, N. 24° 00′, W. 57° 12′ †	30.03	762.7	78	25.6		sw.			6		10		sw.	h'vy	h'vy	mod.	sw.	squally.
Bk. Rosalie, N. 12° 10′, W. 26° 37′*†	29.94	760.5				ssw.			3		10		s.	2½h'r	2½h'r	mod.	se.	cloudy.
Bk. Saga, N. 57° 58′, E. 8° 24′*†	29.88	758.9	58	14.4		w.			6–8		3		w.	o	o	r'gh	w.	clear
S. Salisbury, N. 43° 06′, W. 30° 02′	30.26	768.5	68.9	20.5	93	calm			0		10 n		var.	½h'r	½h'r	mod.	e.	cloudy
Bk. Samuel B. Hale, N. 35° 17′, W. 37° 48′*†	30.25	768.3				s.			2				se.	o	o	long	nw.	clear.
Bk. Sunbeam, N. 46° 30′, W. 27° 37′ †	30.34	770.6	62	16.7	100	ne.			6		fg.			6 h'r	6 h'r	mod.	e.	foggy.
Bk. Scud, N. 20° 25′, W. 57° 25′*†	30.02	762.5	86	30.0		s.			3		2		s.	o	o	mod.	ne.	fine.
S. St. Francis, N. 35° 51′, W. 56° 32′ *†	30.10	764.5	76	24.4		e.			10		9		e.	5 h'r	5 h'r	h'vy	e.	stormy.
Schr. Viola Reppard, Sharps Island, Md.†	30.20?	767.1?	58	14.4		nne.			1		2		nne.					clear.
Schr. Walter L. Plummer, N. 24° 39′, W. 29° 17′*†	30.15	765.8				ene.			2		1		ne.			sm'h	ne.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 21° 12′. W. 38° 25′	30.07	763.8	76	24.4	82	n.			5		3	n.				4	nne.	blue sky
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.94	760.5	63	17.2	89	se.			3		10	se.						raining.
H. M. S. Sylvia, Montevideo, Uruguay	30.15	765.8	59.7	15.4	88	n.			1		1							blue sky
H. M. S. Tyne, S. 18° 04′. W. 4° 16′	30.24	768.1	67	19.4	74	se.			5		9	se.				4	se.	overcast.
H. P.M.S. Rainha de Portugal, Landana, L. Guinea	29.97	761.3	77.0	25.0	82	ssw.			3		8		ssw.	o	o	2		overcast.
H. P. M. S. Bengo, S. 11° 49′, E. 13° 40′	30.00	762.1	75.0	23.9	84	n			3		10			o	o	2		overcast.
U. S. S. Brooklyn, S. 37° 43′. W. 30° 41′*	29.77	756.1	55	12.8	93	se.	24	10.7			10		se.	0.05	16.5	mod.	se.	rainy.
U. S. S. Nipsic, Montevideo, Uruguay *	30.10	764.5	59	15.0	94	wnw.			0–1		0					sm'h		clear.
S. S. Sirius, Rio de Janeiro, Brazil	29.91	759.7				sse.			1		0			o	o			
Bk. Aureola, S. 21° 05′, W. 38° 36′†	30.00	762.0	83	28.3		n.			6		5		n.	o	o	mod.	nne.	fair.
Bk. Adelaide, S. 5° 52′, W. 33° 47′*†	30.07	763.8	81	27.2		ese.			5		1		se.	o	o	mod.	se.	clear.
S. David Crocket, S. 46° 56′, W. 41° 33′ *	29.83	757.7	45	7.2	88	nw.			5		1			o	o	mod.	wsw.	blue sky.
Bk. E. L. Pettingill, S. 41° 34′, W. 56° 00′*†	30.10	764.5	60	15.6		calm			0		0			o	o	sm'h		clear.
Bk. Grey Eagle, S. 11° 36′, W 32° 45′*†	29.95	760.7				ese.			3		2		se.	o	o	short	se.	clear.
Bg. John Wesley, Natal, Brazil*†	29.92	760.0	80	26.7		se.			3		10		ese.	½h'r	½h'r			cloudy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.11	764.8				ese.			1		0			o	o			clear
S. S. Menadoza, S. 25° 12′, W. 35° 21′†	30.15	765.8				nne.			4		10		n.	o	o	r'gh	nne.	
Bk. Mohican, S. 38° 14′, W. 11° 30′	30.09	764.3	61	16.1		nne.			7		10		nne.	1½h'r	1½h'r	mod.	ne.	cloudy.
Bk. Pilgrim, S. 12° 50′, W. 13° 10′*†	30.15	765.8				e.			5		6		e.	o	o	mod.	e.	fair.
Bgt. Willie, S 34° 10′, W. 53° 10′*†	30.04	763.0	62	16.7		calm			0		2		calm	o	o	sm'h	s.	clear.
Bk. Childwall, S. 5° 38′, W. 30° 48′ *	29.97	761.2	80	26.7		ese.			6		4		se.	o	o	light	sse.	fair.
Bk. Achille F, S. 22° —′, W. 36° —′†	30.11	764.8	77	25.0		ne.			5		5		ne.	o	o	mod.	ne.	hazy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.98	761.5	71	21.7	71	ne.			1		0							blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.84	757.9	80	26.7	91	var.			1		8							d. clouds.
H. M. S. Flying Fish, N. 35° 35′, E. 125° 55′	30.08	764.0	67.5	19.7	77	nne.			2		2							blue sky.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.12	765.0	72	22.2		calm			0		2							blue sky.
H. P. M. S. Tamega, Canton, China	30.03	762.8	79.7	26.5	90	calm			0		0			o	o			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.05	763.3	62.5	16.9	77	calm			0		0			o	o			clear.
U. S. S. Essex, Nagasaki, Japan	30.08	764 0	71	21.7	90	nne.			1		5							fair.
U. S. S. Hartford, Corinto, Nicaragua*	29.88	758.9	78	25.6	95	n.			1		5			rain	rain			fair.
U. S. S. Juniata, Canton, China	30.03	762.7	80	26.7	74	se.			1		2			o	o			fair.
U. S. S. Monocacy, Ross Island, Corea	30.09	764.3	65	18.3	78	wsw.			1		2		calm					fair.
U. S. S. Pensacola, N. 34° 36′, E 140° 48′ *.	29.92	760 0	74	23.3	68	w.			1		2		w.	o	o	mod.	sw.	clear.
U. S. S. Ranger, Mare Island, Cal	30.24	768.1	59	15.0	82	calm			0		2			o	o			fair.
U. S. S. Richmond, Yokohama, Japan	30.04	763.0	66	18.9	68	n.			3		0			o	o			clear.
S. S. Oceanic, N. 39° 34′, W. 179° 45′	29.76	755.9	60	15.6	88	nw.			4–6		6			o	o	4		fair.
S. S Oregon, Columbia River, Oregon†	30.29	769.4	55	12.8	87	calm			0		10		w.					cloudy.
S. S. Ancon, Point Fermen, Cal.†	30.10	764.5	60	15.6	76	nnw.			2		5			o	o			hazy.
S. S. State of California, San Francisco, Cal.†	30.19	766.8	50	10.0	93	calm			0		0							clear.
S. S. City of Pekin, Hong Kong, China†	30.09	764.3	76	24.4	77	e.			4		2		ene.	o	o			clear.
S. S. City of Tokio, N. 40° 35′, E. 165° 30′			70	21.1	90	w.			6		10		w.	1 h'r	1 h'r	r'gh	w.	overcast.
S.S. City of Rio de Janeiro, N. 39° 18′, W. 144° 38′†	30.68	779.3	63	17.2	90	se.			4		5		ese.			sm'h		foggy.
S. S. Colima, Acapulco, Mexico†	29.93	760.2	81	27.2	82	calm			0		4		calm	o	o			clear.
S. S. Granada, N. 16° 16′, W. 98° 40′ †	29.90	759.4	81	27.2	83	n.			1		0			o	o	light	wsw.	clear.
S. S. San Blas, Panama, Panama†	29.90	759.4	76	24.4		nw.			3		5		e.	o	o			fair.
S. E. B. Sutton, N. 7° 30′, W. 118° 30′*†	29.93	760.2	79	20.1	91	s.			4		9		s.	o	o	r'gh	var.	cloudy.
S. Storm King, N. 3° 41′, W. 118° 46 *†	29.99	761.7				se.			5		1		se.	o	o	sm'h	se.	fine.
U. S. S. Palos, Canton, China	30.07	763.8	80	20.7	66	calm			0		2		calm					fair.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.92	760.0	82.3	27.9	75	sse.			3		5					sm'h		d clouds.
H. M. S. Magpie, S. 6° 05′, E. 100° 48′	29.93	760.2	81.5	27.5	83	sw.			2		7							d. clouds.
H. M. S. Mutine, S. 15° 35′, W. 74° 50′	30.11	764.8	63	17.2		ese.			1		0					1	ese.	d. clouds.
H. M. S. Nelson, Sydney, N. S. W	30.00	762.0	54	12.2	93	calm			0		0							blue sky.
U. S. S. Iroquois, Callao, Peru	30.08	764.0	64	17.8	83	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.09	764.3	57	13.9	87	sw.			2		10		sw.					overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Onward, Callao, Peru*†	30.13	765.3	63	17.2	83	calm	.....	.....	0	.....	10	.....	.....	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili*	30.09	764.3	57	13.9	94	calm	.....	.....	0	.....	10	.....	calm	.....	.....	sm'h	.....	overcast
S. S. Australia, Sydney, N. S.W.	30.08	764.0	56	13.3	75	sw.	.....	.....	6	.....	6?	.....	sw.	1 h'r	1 h'r	.....	.....	clear?
S. S City of New York, S 14° 05′, W. 169° 58′†	30.00	762.0	82	27.8	95	ese.	.....	.....	1	.....	0	.....	.....	0	0	mod.	se.	clear.
S. S. City of Sydney, Auckland, N. Z*†	29.41	747.0	57	13.9	87	w.	.....	.....	6	.....	10	.....	.....	.....	.....	h'vy	ne.	rainy.
Bk Godeffroy, S. 39° 12′, W. 76° 54′	30.11	764.8	52.5	11.4	84	wsw.	.....	.....	3	.....	8	.....	.....	sh'rs	sh'rs	long	sw.	cloudy.
S. Sovereign of the Seas, S. 11° 44′, W. 97° 44′*†	30.22	767.6	70	21.1	85	se	.....	.....	5	.....	10	.....	se.	rain	rain	mod.	sse.	cloudy.
S. Armenia, S. 21° 44′, W 123° 50′*	30.01	762.2	74	23.3	76	nne.	.....	.....	3	.....	3	.....	.....	0	0	cross	var.	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	67	19.4	.....	se.	.....	.....	4	.....	2	.....	se.	.....	.....	mod.	se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.01	762.2	81	27.2	74	sse.	.....	.....	1	.....	6	ese.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.01	762.2	80	26.7	87	se.	.....	.....	3	.....	3	ese.	.....	.....	.....	2	sse.	blue sky.
H. M S. Woodlark, Shat el Arab River, Turkey	29.88	758.9	89.5	31.9	50	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Bore, S. 32° 42′ E. 30° 48′*†	30.24	768.1	77	25.0	.....	sse.	.....	.....	1	.....	.....	.....	w.	0	0	mod.	ene.	misty.
S. Frank N. Thayer, S. 26° 00′, E. 48° 05′*†	30.17	766.3	73	22.8	69	n.	.....	.....	6	.....	0	.....	.....	0	0	mod.	nne.	blue sky
Bk. Great Surgeon, S. 38° 45′. E. 60° 30′*†	29.80	756.9	61	16.1	.....	w	.....	.....	6	.....	10	.....	sw.	8 h'r	8 h'r	r'gh	nw.	rainy
S. S. Galatia, N. 13° 38′, E. 85° 04′†	29.80	756.9	82	27.8	75	calm	.....	.....	0	.....	8	.....	sw.	1 h'r	1 h'r	sm'h	.....	gloomy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 10, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.01	762.3	71.6	22.0	84	e.			1		3			inap.	inap.	pretty fair	Roziere.
Algiers			30.08	764.1	72.7	22.6	69	nne.			1		0			0	0	clear	Thève.
La Calle			30.12	765.1	75.9	24.4	80	ene.			3		1			0	0	very fair	Fonfréde.
Tunis			30.21	767.4	72.7	22.6	65	e.			3		3			0	0	pretty fair	Delord.
Saida			30.07	763.7															Pérès.
Tebessa			30.24	768.0	72.3	22.4	55	n.			1		0			0	0	clear	St. Martin.
Geriville					68.0	20.0	40	w.			4		4			0	0	cloudy	Forfert.
Laghouat			30.17	766.3	69.1	20.6	35	se.			1		4			inap.	inap.	cloudy	Abraham.
Biskra			30.20	767.1	77.4	25.2	69	se.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.42	772.7	50.0	10.0	64	sse.	8	3.6			1 ks			0.015	0.4	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.23	767.8	30.32	770.1	51.3	10.7	78	s.	10	4.5			10			0.02	0.5	threatening	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.63	752.5	30.17	766.4	59.4	15.2	61	se.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.43	747.6	30.21	767.3	54.3	12.4	89	wsw.	1.3	0.6			10			0.004	0.1		Dr. Wierzbiski
Eperies	29.32	744.7	30.21	767.3	52.5	11.4	83	calm			0		10 n			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28 78	731.1	30.23	767.9	54.0	12.2	74	sse.			1		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.73	729.7	30.07	763.8	53.4	11.9	91	e.			2		3			0	0		The Staff.
Lemberg	29.19	741.3	30.18	766.6	52.0	11.1	90	e.			3		10			inap.	inap.		Dr. T. Stanecki.
Pola	29.98	761.6	30.10	764.4	64.9	18.3	54	e.			4		7			0	0		I. R. Hydrographic Office.
Szathmar	29.71	754.7	30.18	766.6	55.8	13.2	74	s.			2		8			0	0		Joseph Midlinssky, S. J
Szegedin	29.91	759 6	30.19	766.7	59.4	15.2	70	s.			1		10			0	0		Karl St[illegible]cel.
Trieste	30.04	762.9	30.13	765.4	66.9	19.4	41	ne.			3		0			0	0		Royal Academy.
Vienna	29.45	748.0	30.17	766.2	57.7	14.3	71	ese.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.98	761.5	30.08	764.0	48.4	9.1	70	e.	5	2.2			7			0	0	d. clouds	W. Boswell.
Armagh, Observatory	29.81	757.2	30.04	763.0	50.4	10.2	94	nne.	4	1.8			10					drizzling	S. Call.
Bidston, Liverpool Obs'y			30.01	762.2	56.1	13.4	90	s.	4	1.8			10					overcast	John Hartnup.
Bolton, Sharples	29.47	748.5	30.00	762.0	54.0	12.2	95	w.					10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.61	752.1	30.01	762.2	55.6	13.1	85	sw.			1		10			0.02	0.5	raining	McLandsborough & Preston.
Cardington	29.96	761.0	30.07	763.8	60.2	15.7	81	w.			0.2		8					overcast	John McLaren.
Chatham, School M. E.	29.88	758.9	30.05	763.3	56.1	13.4	87	calm			0		10					gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.80	756.0	30.03	762.7	56.0	13.3	75	ene.			1		3					blue sky	The Staff.
Fort Napier, Natal	27.43	696.7	29.65	753.1	87.0	30.6	37	ne.			1		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.73	755.1	29.96	761.0	86.0	30.0	84	se.			5		4					raining	J. W. Smith.
Galway, Queen's College	29.97	761.2	30.01	762.2	52	11.1	93	nw.			1		9			0.14	3.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	69.0	20.6	92	w.			1		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.83	757 7	30.04	763.0	50.6	10.3	81	e.			3		8					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.03	762.7	58.8	14.9	74	se.			1		10					overcast	The Staff.
Guernsey	29.74	755.4	30.04	763.0	58.5	14.7	67	e.			1		7					d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.00	762.0	30.04	763.0	58.3	14.6	76	sw.	2	0.9			6					misty	The Staff.
Leicester, Museum	29.76	755.9	30.02	762.5	56.5	13.6	86	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.04	763.0	70.6	21.4	73	ne.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.93	760.2	29.98	761.5	80.0	26.7	74	n.			2		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.51	749.5	30.04	763.0	51.9	11.1	97	ssw.			1		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.81	757.2	30.04	763.0	59.3	15.2	73	calm			0		7					d. clouds	The Staff.
Plymouth	29.94	760.5	30.02	762.5	58.7	14.8	76	se.			1		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.90	759.4	30.00	762.0	49.3	9.6	71						8					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.87	758.7	29.93	760.2	62.2	16.8	71	ne.			3		9					showery	W. H. Lyne.
Sheffield	29.73	755.1	30.00	762.0	61.2	16.2	81	calm			0		10			0.08	2.0	overcast	W. F. Cooper.
Silloth Rectory	29.98	761.5	30.02	752.5	53.3	11.8	94	se.			2		10			0.415	10.5	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.02	762.5	54.8	12.7	93	sw.	2	0.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					60.8	16.0	74	sw.			0.3		3					d. clouds	Rev. C.H. Griffiths, F.M.S
Truro, Royal Institution	29.89	759.2	29.96	761.0	64	17.8	73	se.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.01	762.2	55.6	13.1	87	wnw.	5	2.2			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.71	754.6	30.11	764.8	70.8	21.6	39	nw.	3.1	1.4		0	2 n			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.02	762.5	30.06	763.5	55.0	12.8		sw.	12	5.4		10 cs	0	w.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.14	765.5	30.18	766.6	57	13.9	61	sw.	12	5.4			10 s		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.04	763.0	30.10	764.5	54	12.2	86	sw.	9	4.0		2 k	8 ks	sw.	sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.79	756.7	29.98	761.5	62.2	16.8	87	w.			1		10 s			0.091	2.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	29.98	761.5	30.03	762.7	50.0	10.0		calm			0		10 s			0	0	overcast	H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	29.90	759.4	29.92	760.0	57	13.9	74	sw.	30	13.4			10 s		sw.	inap.	inap.	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.18	766.6	37	2.8	92	n.	4	1.8			10 n		n.			raining	James Stewart.
Fredericton, N. B	30.13	765.3	30.19	766.8	54.0	12.2	86	s.	3	1.3			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	30.18	766.6	30.23	767.8	53	11.7	93	sw.	13	5.8			fg			0	0	foggy	J. Chipman Seeley
Granton, Ontario	28 85	732.8	29.91	759.7	64.0	17.8	100	s.	9	4.0			10 n			0.35	8.9	overcast	Jas. Grant.
Halifax, N. S*	30.14	765.5	30.27	768.8	56	13.3	100	s.	2	0.9			fg.			0.054	1.4	dense fog	A. Allison.
Hamilton, Ontario	29.53	750.0	29.90	759.4	66.2	19.0	89	sw.			2	4 ck	0	sw.		0.07	1.8	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.72	754.9	30.05	763.3	60	15.6	81	s.	11	4.9		10 k		w.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.19	766.8	30.23	767.8	60.0	15.6	88	sw.			3								C. H. Rigby.
London, Ontario	29.10	739.1	29.97	761.2	65.7	18.7	92	s.			2	0	9 ks			0.25	6.3	cloudy	E. B. Reed.
Medicine Hat, N. W. T.	28.21	716 5	30.52	775.2	35	1.7	79												John Ewart.
Minnedosa, N. W. T	28.22	716.8	30.18	766.6	33	0.6	96	e.	9	4.0			10 n		e.	0.09	2.3	light rain.	Rev. J. M. Wellwood.
Montreal, Quebec*	29.84	757.9	30.04	763.0	56	13.3	80	s.	15	6.7			10 s			inap.	inap.	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.79	756.7	30.01	762.2	56.7	13.7	95	sw.					10 s			0.340	8.6	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.25	742.9	29.93	760.2	55	12.8	100	ne.	2	0.9			10 n		ne.	0.47	11.9	heavy rain	Rev. R. Mosley.
Peterboro, Ontario	29.25	742.9	29.96	761.0	63.7	17.6	88	w.			1		10 k			0.10	2.5	hazy	Wm. O'Connor, M.A.
Port Arthur	29.49	749.0	30.21	767.3	43	6.1	89	calm	0	0		5 ck	2 ks	w.	w.	0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.31	744.5	29.99	761.7	61	16.1	94	sw.	8	3.6		5 c	0	w.		0	0	fair	[illegible] Morgan
Port Stanley, Ontario	29.34	745.2	29.97	761.2	62	16.7	93	sw.	3	1.3			8 k		sw.	0.01	0.3	cloudy	M. Payne.
Qu Appelle, N. W. T	27.94	709.7	30.29	769.4	32	0.0	100	calm	0	0			10 n		n.	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.69	754.1	30.04	763.0	54	12.2	93	calm	0	0		10 cs	0	w.		0.08	2 0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.50	749.3	29.95	760 7	58	14.4	93	n.	12	5.4			10 s		sw.	0.30	7.6	light rain	[illegible] H. McIntyre.
St. Andrews, N. B	30.16	766.1	30.21	767.3	50	10.0	100	s.	1	0.4			fg.			0	0	dense fog	
St. John, N. B	30.08	764.0	30.22	767.6	50.0	10.0	100	s.	8	3.6			10 n			0.003	0.1	dense fog	G. Hutchinson.
Saint John's, N. F	30.11	764.8	30.37	771.4	44	6.7	92	sw.			1		10 n			0	0	cloudy	J. Higgins.
St. Pierre, N. F			30.24	768.0	53.6	12.0		s.			2								The Commandant.
Saugeen, Ontario*	29.24	742.7	29.95	760 7	52	11.1	93	n.	2	0.9			10 s			0.64	16.3	cloudy	
Stratford, Ontario	28.69	728.7	29.92	760.0	64.9	18.3	93	s	8.0	3.6		0	7 s			0.255	6.5	blue sky?	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
S. W. Point, Anticosti	29.93	760.2	29.96	761.0	44	6.7	93	s.			2		10 n		w.			light rain	Miss Grace Pope.
Sydney, C. B.	30.20	767.1	30.26	768.6	56	13.3	96	sw.	10	4.5		2 ck	2 ks	nw.	sw.	0	0	fair	[illegible], C. E.
Toronto, Ontario*	29.61	752.1	29.99	761.7	60	15.6	93	s.	7	3.1			10 ks		sw.	0.02	0.5	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.95	735.3	29.98	761.5	66.3	19.1	89	s.	20	8.9		0	9 ks			0.41	10.4	d. clouds	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.20	767.1	30.26	768.6	55	12.8	100	se.	2	0.9		fg	fg			0	0	foggy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	63.0	17.2	89	sw.	11.1	5.0		0	8 k			0.060	1.5	fine	I. Garfelt.
Springbok Fontein	27.85	707.4			46	7.8	92									0.72	18.3	showery	J. T. Eustace
Chilian.																			
Coquimbo	29.89	759.2	29.97	761.2	57.2	14.0	89	e.			2	10						cloudy	Samuel Redolez.
Iquique	29.97	761.3	30.00	762.0	63.7	17.6	74	sw.			3							hazy	Rafael Moreno.
Niebla	29.60	751.8	29.71	754.5	50.4	10.2	84	e.			3		1 s		e.	0	0		Federico Köhling.
Punta Caldera	29.85	758.2	29.94	760.4	57.7	14.3	85	se.			1	10 c		se.				cloudy	Manuel Tobar.
Punta Corona	30.21	767.2	30.39	772.0				sw.			1	0?	0?			0	0	cloudy?	Francisco Alvarado.
Valparaiso	30.00	762.0	30.14	765.6	57.2	14.0	92	s.			1	0	2					clear	Paez-I-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.37	644.3																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.18	766.5	30.20	767.1	62.8	17.1	80	e.	3.4	1.5		0	0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.02	762.5	30.07	763.7	54.3	12.4	68	nw.	11	5			1						Oversergent Fischer.
Fanoe	30.06	763.5	30.08	764.0	52.7	11.5	74	ene.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.70	754.4	29.74	755.5	25.2	— 3.8	78	ene.			6		1						S. Kleinschmidt.
Jacobshavn, Greenland	30.00	761.9	30.04	763.1	14.0	—10.0		calm			0		3						
Stykkisholm, Iceland	29.60	751.8	29.64	752.9	35.2	1.8	73	e.			2		10					snowing	A. O. Thorlacius.
Thorshavn	29.75	755.7	29.78	756.3	46.8	8.2	79	w.	16	7			5						Overloerer Bergh.
Vestervig	29.97	761.3	30.06	763.6	52.0	11.1	63	nw.			2		3						Loerer Oesterhol.
Egyptian.																			
Cairo	29.73	755.2			83.7	28.7		sw.	5.4	2.4			0			inap.	inap.		Albert Ismalun.
French.																			
Agen, Normal School	29.43	747.5	30.11	764.9	61.5	16.4	49	se.			1		n	se.		0	0		M. Labroue, Director.
Alençon, Normal School	29.51	749.6	30.06	763.6	54.7	12.6	86	ne.			1		1		sw.	0	0	clear	M. Nicot, Director.
Avignon, Normal School	30.03	762.7	30.11	764.7	69.4	20.8	46	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.48	748.8	30.04	762.9	56.8	13.8	58	s.			1		8 kn			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.79	756.7	30.06	763.5	53.1	11.7	85	e.			1		0			0	0	clear	M. Frère Eugène Marie.
Besançon, Normal School	29.12	739.6	30.04	762.9	48.2	9	92	sse.			1		5		nnw.	0	0	fair	M. Gobin, Director.
Bordeaux, Observatory	29.73	755.2	29.98	761.6	67.1	19.5	61	sse.			1	5 c				0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.47	748.4	30.02	762.4	59.0	15	72	ese.			1		kn		ese.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.75	755.7	29.99	761.8	54.3	12.4	86	ne.			1		10		ne.			raining	M. de Kermarée, Dir.
Caen, Normal School	29.92	760.0	30.00	761.9	57.2	14	61	sse.			1				sse.	0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.69	754.1	30.01	762.2	58.5	14.7	78	nw.			1		5		n.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.53	750.0	30.04	762.9	58.5	14.7	72	e.			1		0			0	0	clear	M. Noel, Director.
Clermont-Ferrand Obs'y	28.67	728.3	29.99	761.8	68.0	20.0	35	e.			1	5 c; pc				0	0		M. Allnard, Director.
Cluny, Normal School	29.19	741.5	30.05	763.2	62.8	17.1	47	se.			2				se.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.20	741.6	30.05	763.2	59.4	15.2	65	e.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.65	702.4	30.16	766.1	61.9	16.6	95	nw.			2		4 n		sw.	0	0		M. Jarach, Director.
Grésaque, du Rhone	28.97	735.7	30.06	763.5	70.9	21.6	31	n.			1		1		n.	0	0		M. Kina, Director.
Grenoble, Normal School	29.44	747.7	30.17	766.2	59.4	15.2	60	sw.			1	cs	k		e.	0	0		M. Ablard, Director.
Guéret, Normal School	28.55	725.1	30.15	765.7	50.0	10	62	sw.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.87	758.6	30.14	765.6	51.8	11	90	ne.			2		5		ne.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.46	748.2	30.01	762.3	67.1	19.5	54	ssw.			1		5			0.126	3.2	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.1	29.99	761.7	62.6	17.0	64	ene.			1		5		se.	0	0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.00	736.7	30.04	763.1	64.6	18.1	46	s.			1		2 ks			0	0	slightly cl'dy	M. Andre, Director
Mans, Normal School	29.71	754.6	30.02	762.5	56.3	13.5	96	e.			1		10			0	0	covered	M. Richard, Director
Marseille, Observatory	29.85	758.2	30.12	765.0	66.9	19.4	53	sw.			1		2			0	0		M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	57.2	14.0	37	wsw.	16.8	7.5			6		w.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.95	760.7	30.06	763.5	66.2	19	58	w.			2		2			0	0	slightly cl'dy	M. Gaizin, Director.
Nancy	29.26	743.2	30.05	763.3	54.3	12.4	74	wsw.			1	ck				0	0		M. Hasse, Director.
Nantes, Observatory	29.87	758.6	30.03	762.7	59.4	15.2	76	ne.			1	c; ck	6 k	s.		0	0		M. Lavocque, Director.
Perpignan, Observatory	29.93	760.3	30.05	763.2	64.8	18.2	79	se.	5.6	2.5			10		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.1			37.4	3.0							10		w.	0.118	3.0	covered	M. Vausseinat, Director.
Privas, Normal School	29.02	737.2	30.07	763.7	66.2	19	25	s.			1		2	w.		0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.21	640.2			46.9	8.3	60	s.			2		8			0	0		M. Allnard.
Rochefort, Naval Obs'y	29.95	760.8	29.98	761.6	65.1	18.4	73	calm			0		5			0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.3	30.03	762.8	62.2	16.8	66	e.			4		5	s.	s.	0	0	cloudy	M. Brotier, Director.
Rodez, Normal School	27.89	708.5	30.00	762.1	62.6	17	80	nw.			1	cs		nw.		0	0		M. Seger, Director.
Rouen, Normal School	30.00	762.1	30.05	763.3	54.3	12.4	90	ese.			1		0			0	0	clear	M. Moullot, Dir.
St Lô	29.87	758.8	30.02	762.4	58.3	14.6	63	s.			1		5	s.		0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.92	759.9	30.04	763.1	59.9	15.5	66	s.			1		1	s.		0	0	clear	M. Renou, Director.
Toulouse, Observatory	29.34	745.2	30.06	763.6	67.1	19.5	69	sse.			6		5		se.	0	0	cloudy	M. Baillaud, Director.
Tours	29.84	757.9	30.02	762.4	57.9	14.4	69	ne.			1		8	s.	sse.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.54	750.4	30.04	762.9	60.4	15.8	52	se.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.89	759.1	30.04	762.9	66.4	19.1	72	sw.	5.8	2.6			6 k		sw.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.65	727.6	30.09	764.2	57.2	14.0	68	calm			0		1			0	0		Prof. Juedt.
Bamberg	29.32	744.6	30.16	766.1	56.7	13.7	70	e.			1		3 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.02	762.5	30.16	766.1	58.6	14.8	78	calm			0		10			0	0		Dr. Lensch.
Breslau	29.67	753.5	30.20	767.1	56.1	13.4	71	wsw.			1		10			0	0		Royal University Obs'y.
Carlsruhe	29.65	753.2	30.12	765.0	48.9	9.4	93	sw.			1		1	sw.		0	0		Albert Senz.
Cassel	29.36	745.8	30.08	763.9	59.7	15.4	60	s.			2		5	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	754.9	30.09	764.2	59.2	15.1	64	se.			1		7			0	0		Physical Society.
Friedrichshafen	28.69	728.7	30.12	765.0	51.4	10.8	87	sw.			1		7	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	762.9	30.13	765.2	56.1	13.4	89	sw.			2		10			0	0		E. Preller.
Kiel	30.08	763.9	30.09	764.3	57.4	14.1	87	wsw.			3		10			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.73	755.1	30.15	765.8	58.3	14.6	61	sse.			1		9			0	0		H. Leppig, Asst.
Magdeburg	29.96	760.9	30.15	765.7	55.6	13.1	78	sw.			1		10	sw.		0	0		Weather Observatory.
Memel	29.99	761.8	30.04	763.0	53.4	11.9	71	nw.			6		3 ck						Issermann.
Munich	28.26	717.7	30.12	765.1	55.2	12.9	63	n.			1		0			0	0		Central Station.
Neufahrwasser	30.05	763.3	30.07	763.7	57.4	14.1	77	nw.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.54	750.2	30.06	763.6	53.8	12.1	76	sw.			1		3	sw.		0	0		Dicknether.
Stuttgart	29.11	739.3	30.00	761.9	56.3	13.5	72	n.			1		2	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.07	763.8	30.10	764.5	54.9	12.7	91	sw.			3		10			0.020	0.5		Profs. Brandes & Reimer.
Greek.																			
Athens	29.64	752.8	30.02	762.5	63.3	17.4		ne.			3.0		7 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.82	757.5	29.87	758.7	85.9	29.9	67	w.	17.0	7.6			0			0	0	blue sky	
Deesa	29.34	745.2	29.80	757.0	90.0	32.2	55	ne.	11.0	4.9			2	ne.		0	0	d. clouds	
Bombay	29.83	757.6	29.86	758.5	83.9	28.8	75	ene.	32.0	14.3			10		ne.	0	0	overcast	
Poona, Yarrowda	28.01	711.5	29.89	759.1	73.3	22.9	89	e.	10.0	4.5			10			0.71	18.0	overcast	
Trichinopoly	29.54	750.2	29.82	757.3	84.3	29.1	74	ene.	0.2	0.1			10			0	0	overcast	
Bellary	28.33	719.5	29.79	756.6	82.0	27.8	62	e.	12.0	5.4			8			0	0	gloomy	
Belgaum	27.31	693.6	29.85	758.2	74.6	23.7	82	s.	4.0	1.8			9	w.	e.	0	0	d. clouds	
Lahore	29.09	738.8	29.83	757.6	83.0	28.3	46	calm	0	0			0			0	0	blue sky	
Roorkee	28.89	733.7	29.77	756.2	86.2	30.1	25	w.					0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Agra	29.26	743.3	29.82	757.3	92.2	33.4	23	nw.	2.0	0.9	.....	.....	2	.....	nw.	0	0	d. clouds	
Nagpur	28.78	730.9	29.81	757.1	86.7	30.4	49	calm	1.0	0.4	.....	.....	6	.....	e.	0	0	d. clouds	
Jubbulpore	28.51	724.1	29.86	758.5	82.7	28.2	55	se.	6.0	2.7	.....	.....	10	.....	se.	0	0	gloomy	
Lucknow	29.45	747.9	29.82	757.4	85.1	29.5	37	calm	2.0	0.9	.....	.....	0	.....	.....	0	0	blue sky	
Allahabad	29.50	749.4	29.82	757.3	81.7	27.6	52	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Patna	29.62	752.5	29.81	757.2	82.6	28.1	59	nw.	1.6	0.7	.....	.....	4	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.83	707.0	29.83	757.6	82.0	27.8	39	nw.	6.2	2.8	.....	.....	0	.....	.....	0	0	blue sky	
Cuttack	29.75	755.6	29.83	757.7	87.4	30.8	60	calm	0	0	.....	.....	4	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.77	756.1	29.79	756.6	86.1	30.1	78	wnw.	1.0	0.4	.....	.....	4	.....	nw.	0	0	d. clouds	
Dhubri	29.68	753.8	29.80	756.8	79.5	26.4	75	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.77	756.1	29.86	758.4	80.7	27.1	89	nw.	2.8	1.2	.....	.....	10	.....	.....	0	0	overcast	
Sibsagar	29.46	748.2	29.79	756.6	82.3	27.9	86	ne.	1.0	0.4	.....	.....	4	.....	sw.	0	0	d. clouds	
Jeypore	28.41	721.7	29.83	757.6	90.5	32.5	25	wnw.	4.0	1.8	.....	.....	4	.....	wnw.	0	0	d. clouds	
Zanzibar	30.00	762.0	.....	.....	76.3	24.6	79	calm	3.8	1.7	.....	.....	9	.....	se.	0	0	misty	
ITALIAN.																			
Udine	29.71	754.7	30.12	765.0	64.6	18.1	47	e.	1.8	0.8	.....	.....	0	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.64	752.8	30.15	765.9	61.9	16.6	53	se.	1.8	0.8	.....	.....	4	sw.	.....	0	0	.....	Prof. G.V.Schiapparelli
Padua	30.02	762.4	30.13	765.2	62.4	16.9	55	nnw.	1.3	0.6	.....	.....	1	.....	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.4	30.13	765.4	56.8	13.8	75	ne.	1.8	0.8	.....	.....	5	w.	.....	0	0	.....	Prof. F. F. Denza.
Genoa	29.94	760.5	30.13	765.4	65.5	18.6	57	sw.	2.5	1.1	.....	.....	2	sw.	.....	0	0	.....	Prof. G. M. Garibaldi.
Mondovi	28.24	717.4	30.16	766.1	59.0	15.0	80	ene.	.....	.....	6	.....	2	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	30.08	764.1	30.13	765.3	61.5	16.4	67	n.	13.0	5.8	.....	.....	2	ne.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.85	758.1	30.10	764.5	64.9	18.3	52	e.	.....	.....	2	.....	1	.....	.....	0	0	.....	Prof. Costantino Pittei
Leghorn	29.97	761.1	30.05	763.3	65.7	18.7	43	ne.	4.3	1.9	.....	.....	7	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.92	760.0	30.10	764.4	65.7	18.7	50	w.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.80	756.9	30.05	763.3	64.4	18.0	50	nne.	13.6	6.1	.....	.....	2	n.	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.21	742.0	30.09	764.3	64.4	18.0	62	wnw.	3.8	1.7	.....	.....	2	w.	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.87	758.7	30.06	763.5	69.6	20.9	64	sse.	.....	.....	2	.....	4	w.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.85	758.1	30.10	764.4	65.3	18.5	54	ne.	5.6	2.5	.....	.....	.....	.....	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.02	762.4	30.06	763.5	67.3	19.6	56	nne.	11.2	5.0	.....	.....	3	nne.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.55	750.5	30.06	763.6	64.8	18.2	60	ene.	0	0	.....	.....	2	.....	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.18	766.4	30.21	767.3	54.0	12.2	97	calm	.....	.....	0	0	0	.....	.....	0	0	clear	H. Hattori.
Awomori	30.16	766.0	30.19	766.8	52.0	11.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	30.07	763.8	30.17	766.3	64.8	18.2	88	e.	.....	.....	2	4 cs	6 s	.....	e.	0.264	6.7	cloudy	Sekigawa & Yamazaki.
Kagoshima	30.09	764.2	30.10	764.5	66.0	18.9	83	calm	.....	.....	0	.....	10 s	.....	.....	0	0	overcast	G. Miyanohaza.
Kanazawa	30.05	763.3	30.15	765.8	63.1	17.3	87	ese.	0.8	0.4	.....	.....	10s;ks	.....	.....	0	0	cloudy	S. Endo.
Kioto	29.97	761.2	30.14	765.6	65.1	18.4	77	nne.	1.5	0.6	.....	.....	10s;ck	.....	.....	0.529	13.4	cloudy	M. Tojima.
Kochi	30.08	764.0	30.10	764.5	67.9	19.9	79	nw.	4.8	2.1	.....	.....	10 s	.....	sw.	0.06	1.5	overcast	K. Kusunose.
Miasaka	30.08	763.9	30.10	764.6	64.7	18.2	92	n.	.....	.....	1	.....	10 s	.....	wsw.	0	0	cloudy	K. Masusaki
Miyako	30.12	765.1	30.23	767.9	53.8	12.1	90	sw.	1.2	0.8	.....	10 ck	0	.....	.....	0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.91	759.7	30.11	764.8	64.5	18.1	76	ne.	0.0	0.3	.....	0	0	.....	.....	0	0	clear	S. Takehayasu
Niigata	30.13	765.3	30.16	766.0	60.7	15.9	85	ne.	1.0	0.4	.....	.....	10 s	.....	.....	0	0	covered	Satoo & Tomikawa.
Nobiru	30.21	767.2	30.22	767.6	65.6	18.7	68	sse.	11.9	5.3	.....	8 cs	2 s	.....	.....	0	0	covered	Yoslino & Midzushina.
Numazu	30.14	765.5	30.18	766.5	67.2	19.6	70	ene.	.....	.....	2	.....	10s;ks	.....	e.	0.441	11.2	cloudy	R. Kaneda.
Osaka	30.10	764.5	30.11	764.9	65.1	18.4	77	nne.	7.7	3.4	.....	.....	10s;ks	.....	.....	0.680	17.3	cloudy	H. Omura.
Sakai	30.11	764.8	30.12	765.0	62.4	16.9	85	ne.	.....	.....	2	0	2 ks	.....	sw.	0	0	clear	Yamawchi&Sakamoto.
Shimonoseki	29.97	761.3	30.12	765.0	65.2	18.4	78	calm	.....	.....	0	0	1 s	.....	nw.	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.12	765.1	30.20	767.0	64.2	17.9	80	ese.	4.4	2.0	.....	.....	10 ks	.....	sw.	0.472	12.0	overcast	The Staff.
Wakayama	30.04	763.1	30.09	764.4	66.9	19.4	75	var.	0.6	0.3	.....	.....	10s;ck	.....	.....	0.689	17.5	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	74.0	23.3	60	sse.	16.0	7.2	.....	0	6k;ks	.....	e.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.05	763.3	55.4	13.0	94	w.	0.9	0.4	.....	5 c	1ck;s	.....	.....	0.544	13.8	cloudy	Prof. M. Leal.
Mazatlan	29.67	753.6	29.93	760.1	77.0	25.0	86	n.	1.6	0.8	.....	1 cs	0	.....	.....	0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.07	763.8	30.07	763.8	59.7	15.4	.....	ese.	.....	.....	2	.....	.....	.....	.....	0	0	.....	
Groningen	30.03	762.7	30.08	764.1	54.5	12.5	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Helder	30.08	763.9	30.08	763.9	55.4	13.0	.....	s.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	30.08	764.1	30.08	764.1	55.6	13.1	84	ese.	.....	.....	1	.....	.....	.....	.....	0	0	.....	
Utrecht	30.05	763.2	30.10	764.4	57.0	13.9	71	ese.	.....	.....	2	.....	8	.....	.....	0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2	.....	.....	76.8	24.9	87	n.	0	0	.....	.....	7	.....	.....	0.461	11.7	.....	Lt.J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.94	760.5	30.00	762.1	50.0	10.0	74	sw.	13	6	.....	.....	6	.....	.....	0.165	4.2	.....	
Brono	29.66	753.3	29.70	754.3	40.5	4.7	76	nnw.	.....	.....	4.6	.....	10	.....	.....	0.028	0.7	light rain	
Christiania	29.80	756.9	29.95	760.6	53.4	11.9	31	nw.	13	6	.....	.....	1	.....	.....	0	0	.....	
Gjæsvær	29.35	745.4	29.37	746.0	34.3	1.3	.....	calm	.....	.....	0	.....	7	.....	.....	.....	.....	.....	
Lodingen	29.39	746.6	29.44	747.8	37.8	3.2	73	nw.	.....	.....	2-4	.....	8	.....	.....	0.280	7.1	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	68.7	20.4	81	ne.	19.9	8.9	.....	.....	2	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santo
Funchal, Madeira	30.01	762.2	30.09	764.3	72.0	22.2	46	wsw.	7.4	3.3	.....	.....	2	.....	n.	0.003	1.6	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.45	747.9	29.78	756.3	63.5	17.5	82	s.	11.2	5.3	.....	.....	7	.....	.....	0.302	9.2	.....	The Staff.
Ponta Delgada, Azores	30.11	764.9	30.19	766.7	68.7	20.4	67	calm	0	0	.....	.....	3	.....	.....	0	0	.....	
Saint Paul de Lonado	29.76	755.9	29.90	761.0	78.8	26.0	88	w.	1.3	0.6	.....	.....	7	.....	.....	0	0	.....	
San Salvador, Congo	28.17	715.6	30.01	762.3	77.4	25.2	65	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.08	637.1	29.84	757.9	42.3	5.7	100	se.	57.7	25.8	.....	.....	10	.....	.....	4.410	112.0	raining	
RUSSIAN.																			
Akmolinski	28.46	722.8	29.52	749.7	52.2	11.2	31	wsw.	22	10	.....	2 cs	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.28	743.8	29.30	744.3	29.8	— 1.2	76	ese.	9	4	.....	.....	10	.....	.....	0	0	.....	Capt. Sseliwerstow
Asburada	30.21	767.2	30.11	764.8	77.7	25.4	76	wnw.	4	2	.....	.....	9 kn	.....	.....	0	0	.....	
Astrakhan	30.20	768.5	30.19	766.7	59.2	15.1	52	sw.	4	2	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.20	767.1	30.15	765.9	69.6	20.9	65	nne.	9	4	.....	0	5 ks	.....	.....	0	0	.....	
Barnaul	29.15	740.3	29.63	752.5	63.0	17.2	36	sw.	13	6	.....	.....	3	.....	.....	0	0	.....	Meteorological Obs'y
Bielosersk	28.66	728.0	29.13	739.9	36.5	2.5	80	wnw.	31	14	.....	.....	10 s	.....	.....	0.067	1.7	raining	
Dorpat	29.52	749.9	29.77	756.1	50.4	10.2	54	nw.	13	6	.....	0	2 k	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.61	726.8	29.60	751.9	29.5	— 1.4	66	wnw.	16	7	.....	.....	8	.....	.....	0.094	2.4	.....	Meteorological Obs'y.
Elissawetgrad	29.71	754.6	30.16	766.1	54.3	12.4	76	wnw.	4	2	.....	.....	10 s	.....	.....	0	0	.....	
Irkutsk	28.41	721.6	30.03	762.7	55.9	13.3	44	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	
Kasalinsk	29.45	747.9	.....	.....	60.8	16.0	36	w.	45	20	.....	0	0	.....	.....	.....	.....	.....	
Kasan	29.28	743.6	29.55	750.6	30.7	— 0.7	98	se.	20	9	.....	.....	10	.....	.....	0.193	4.9	snowing	Observatory.
Kem	29.18	741.2	29.23	742.5	34.3	1.3	94	nw.	9	4	.....	.....	9 k	.....	.....	0.134	3.4	h'vy clouds	
Kertch	30.14	765.6	30.17	766.2	57.4	14.1	62	ne.	4	2	.....	0	5 k	.....	.....	0	0	.....	Lagorio & Sastyrez.
Kieff	29.41	747.0	30.04	763.1	55.6	13.1	78	w.	11	5	.....	.....	10ks;n	.....	.....	0	0	.....	Observatory.
Koslov	29.25	743.0	29.76	755.8	50.4	10.2	93	wsw.	16	7	.....	.....	10 n	.....	.....	0	0	.....	
Libau	29.94	760.5	29.97	761.1	53.6	12.0	56	w.	11	5	.....	0	0	.....	.....	0	0	.....	E. Quass.
Lugan	29.87	758.6	30.07	763.7	58.3	14.6	57	wsw.	13	6	.....	.....	8	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.04	737.7	29.51	749.6	52.2	11.2	85	nnw.	7.8	3.5	.....	.....	10 n	.....	.....	0.024	0.6	raining	Meteorological Obs'y
Nikolaiev	30.10	764.6	30.17	766.4	57.2	14.0	78	calm	0	0	.....	.....	10 n	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.83	757.7	29.92	759.9	36.3	2.4	84	calm	0	0	.....	0	0	.....	.....	.....	.....	.....	Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Pekin, China	29.92	759.9	30.06	763.5	68.9	20.5	71	sw.	3.4	1.5	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.80	756.9	30.14	765.5	75.7	24.3	6	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.08	738.7	29.28	743.7	35.8	2.1	93	nnw.	22	10	.....	.....	10	.....	.....	0.197	5.0	light clouds	Dr. Bergmann.
Pinsk	29.59	751.6	30.09	764.2	54.5	12.5	78	w.	22	10	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.02	762.5	30.05	763.3	70.9	21.6	84	nw.	4	2	.....	0	0	.....	.....	0.728	18.5	.....	
St. Petersburg	29.55	750.5	29.57	751.1	44.8	7.1	62	wnw.	20	9	.....	0	7 kn	.....	.....	0.232	5.9	.....	Central Physical Obs'y.
Samarkand	27.67	702.7	30.07	763.8	70.0	21.1	40	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.07	738.4	29.70	754.3	68.9	20.5	22	sw	18	8	.....	0	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.89	759 2	30.10	764.6	61.9	16.6	56	n.	16	7	.....	0	1 s	.....	.....	0	0	.....	
Staroi Bykhov	29.35	745.6	29.91	759.6	55.4	13.0	76	w.	16	7	.....	.....	10	.....	.....	0	0	.....	
Tashkend Laboratory	28.37	720 7	29.98	761.5	74.8	23.8	36	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.78	731.0	30.18	766.6	66.2	19.0	75	s.	4	2	.....	0	4 ks	.....	.....	0.902	22.9	.....	Physical Observatory.
Vernoe	27.38	695.5	29.80	757.0	65.8	18.8	57	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Viatka	28.82	732.1	29.47	748.6	27.9	— 2.3	77	sse.	4	2	.....	.....	10	.....	.....	0.051	1.3	.....	
Warsaw	29.72	755.0	30.16	766 0	56.3	13.5	76	w.	11	5	.....	.....	10 kn	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.35	745.6	29.63	752.7	53.4	11.9	60	w.	7	3	.....	.....	6	.....	.....	blank	blank	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.90	759.4	30.00	762.0	65.1	18.4	93	ne.	5.4	2.4	.....	.....	9	.....	.....	0.197	5.0	.....	Antonio Molins.
Bilbao, Met. Obs'y	29.92	760.0	29.98	761.5	75.2	24.0	53	se.	4.9	2.2	.....	3	0	sw.	.....	0	0	Almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.05	687.1	29.98	761.4	60.8	16.0	85	s.	5.6	2.5	.....	0	6	.....	.....	0.453	11.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.98	761.5	63.1	17.3	69	s.	8.3	3.7	.....	.....	10	.....	.....	0.055	1.4	rainy	The Staff.
Murcia, Met. Obs'y	29.82	757.5	29.94	760.5	71.8	22.1	73	ene.	1.6	0.7	.....	3	6	sw.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.17	740.8	29.93	760.1	58.1	14.5	77	s.	6.7	3.0	.....	4 s	4 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.97	735.7	29.84	758.0	64.2	17.9	67	se.	4.3	1.9	.....	.....	8	.....	.....	0.004	0.1	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.94	760.5	30.01	762.2	73.9	23.3	86	s.	0.7	0.3	.....	0	2 ks	.....	e.	0.01	0.3	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.90	759.5	29.96	760.9	78.3	25.7	85	ese.	2.2	1.0	.....	0	1 s	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.3	30.00	761.8	62.4	16.9	91	sse.	15.5	6.9	.....	.....	10	.....	sse.	0.50	12.7	raining	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.83	757 7	29.92	760.0	80.2	26.8	80	se.	6.3	2.8	.....	5 ks	4 kn	se.	se.	0.138	3.5	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.40	746.7	29.44	747.7	37.4	3.0	90	n.	.....	.....	2	.....	5	.....	.....	0	0	.....	
Umea	29.54	750.4	29.60	751.7	46.0	7.8	55	nw.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Hernosand	29.49	749.0	29.54	750.3	47.5	8.6	48	nw.	.....	.....	6	.....	2	.....	.....	0.083	2.1	.....	
Stockholm	29.72	755.0	29.90	759.5	51.4	10.8	43	w.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Wisby	29.89	759.1	29 95	760.6	51.1	10.6	63	nw.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.79	756.7	29.88	758.9	50.9	10.5	51	wnw.	8.3	3.7	.....	.....	0	.....	.....	0.004	0.1	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	28.71	729.1	30.14	765.5	51.6	10.8	83	w.	.....	.....	1	.....	10	.....	.....	0	0	foggy	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.00	762.0	61.2	16.2	73	n.	31	14.0	.....	.....	10	.....	n.	0.827	21.0	.....	The Observatory.
Valona	.....	.....	30.11	764.7	66.6	19.2	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	757.8	83.3	28.5	55	ne.	.....	.....	2	.....	6 n	.....	sw.	1.400	35.6	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.13	765 3	30.21	767.3	52.4	11.3	70	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.41	747.0	30.08	764.0	47	8 3	100	nw.	6	2.7	.....	.....	10 n	.....	.....	0.46	11.7	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.95	760.7	33.0	0.6	57	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.53	699.2	30.45	773.4	31	— 0.6	81	nw.	10	4.5	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.23	767.8	58.0	14.4	80	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.19	766.8	30.20	767.1	53	11.7	93	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.05	763 3	30.24	768.1	56.0	13.3	86	nw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	Louis Duane.
Baltimore, Maryland	30.19	766.8	30.24	768.1	51.5	10.8	90	e.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.18	766.6	30.20	767.1	55.5	13.1	93	ne.	11	4.9	.....	.....	fg.	.....	.....	0	0	dense fog	G. A. Hill.
Bennett, Fort, Dakota	28.62	726.9	30.24	768.1	39.5	4.2	73	nw.	16	7.2	.....	.....	10 s	.....	nw.	0.13	3.3	cloudy	A. Pritchard.
Benton, Fort, Montana	27.68?	703.1?	30.59?	777.0?	35	1.7	72	sw.	4	1.8	.....	.....	10 s	.....	.....	0.43	10.9	cloudy	Thomas Morgan.
Bismarck, Dakota	28.27	718.0	30.15	765 8	35	1.7	100	nw.	23	10.3	.....	.....	10 n	.....	nw.	0.52	13.2	light rain	B. O. Lenoir.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	54.0	12.2	96	ne.	10	4.5	.....	.....	fg.	.....	.....	0	0	dense fog	J. T. Eiker.
Boise City, Idaho	27.37	695 2	30.23	767.8	38	3.3	92	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.08	764.0	30.24	768.1	49.8	9.9	80	w.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.94	760.5	30.00	762.0	76.0	24.4	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.27	743.4	30.03	762.7	66.3	19.1	72	se.	16	7.2	.....	3 ck	hz.	sw.	.....	0	0	clear	Wm. Finn.
Buford, Fort, Dakota	28.20	716.3	30.30	769.6	34.7	1.5	100	w.	14	6.3	.....	.....	10 s	.....	nw.	0.42	10.7	cloudy	A. Schneider.
Cairo, Illinois	29.70	754.4	30.10	764.5	66.6	19.2	91	se.	6	2.7	.....	.....	10 s	.....	se.	0.74	18.8	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.08	764.0	30.28	769.1	51.2	10.7	98	n.	3	1.3	.....	0	5 s	.....	.....	0.26	6.6	fair	O. D. Stewart.
Cape Henry, Virginia	30.14	765.5	30.16	766.1	60.0	15.6	81	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30 17	766.3	30.20	767.1	54.0	12.2	80	n.	9	4.0	.....	2 c	0	.....	.....	0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.48	748.8	30.17	766.3	52	11.1	80	nw.	27	12.1	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.08	764.0	30.10	764 5	66.0	18.9	87	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.08	764.0	30.14	765.5	62.0	16.7	87	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.24	768.1	54.8	12.7	88	n.	4	1.8	.....	0	fg	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.39	746 5	30.22	767.6	57.0	13.9	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	30.19	766.8	27.0	— 2.8	84	n.	6	2.7	.....	.....	10 n	.....	.....	inap.	inap.	light smoke	E. McGovern.
Chicago, Illinois	29.32	744.7	30.03	762.7	57.5	14.2	90	ne.	4	1.8	.....	6 cs	0	w.	.....	0.54	13 4	fair	Wm. Norrington.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	56	13.3	93	ne.	16	7.2	.....	0	0	.....	.....	0	0	clear	O. F. Dickens.
Cincinnati, Ohio	29.45	748.0	30.11	764.8	69.0	20.6	44	s.	4	1.8	.....	0	4 k	.....	s.	0	0	fair	L. Dunne.
Cleveland, Ohio	29.29	744.0	30.03	762 7	69.2	20.7	77	s.	7	3.1	.....	6 c	0	w.	.....	0	0	fair	J. B. Newlin.
Columbus, Ohio	29.23	742.4	30.09	764.3	64	17.8	90	s.	6	2.7	.....	8 ck	1 s	sw.	.....	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	30.07	763.8	65.5	18.6	93	calm	0	0	.....	0	5 s	.....	.....	0.10	2.5	fair	C. E. King.
Custer, Fort, M. T.	27.21	691.1	30.45	773 4	34	1.1	72	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.17	4.3	cloudy	T. Gibson.
Davenport, Iowa	29.41	747.0	30.07	763.8	55	12.8	86	n.	4	1.8	.....	.....	10 s	.....	nw.	0.47	11.9	cloudy	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	30.06	763 5	56	13.3	77	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington Ty	28 57	725.7	30.36	771.1	36.5	2.5	85	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.65	651.5	30.33	770.4	29.2	— 1.6	100	ne.	2	0.9	.....	.....	10 n	.....	.....	0.18	4.6	light smoke	F. Des Willson.
Delaware Breakwater, Del.	30.18	766.6	30.20	767.1	59	15.0	81	ne.	19	8.5	.....	0	0	.....	.....	0	0	clear	F. W. Mixer.
Denver, Colorado	24.89	632.2	30.15	765.8	40.0	4.4	76	ne.	6	2.7	.....	.....	10 n	.....	.....	0.02	0.5	light rain	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.11	764.8	52	11.1	86	s.	2	0.9	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.95	760.7	69.1	20.6	78	s.	14	6.3	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.47	697.7	30.10	764.5	47	8.3	71	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.36	745.7	30.08	764.0	54.7	12.6	90	calm	0	0	.....	.....	10 s	.....	nw.	0.87	22.1	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.12	765.0	47	8.3	86	w.	1	0.4	.....	3 ck	2 s	w.	w.	0	0	fair	N. B. Conger.
Eastport, Maine	30.15	765.8	30.22	767.6	50.9	10.3	93	s.	4	1.8	.....	.....	fg.	.....	s.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	30.05	763.3	46	7.8	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.35	669.3	30.09	764.3	45.1	7.3	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.32	744.7	30.05	763.3	69.0	20.6	78	sw.	12	5.4	.....	2 cs	0	nw.	.....	0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.43	747.5	30.10	764 5	45.0	7.2	93	n.	4	1.8	.....	hz.	hz.	.....	.....	0	0	dense haze	George Heathcote.
Galveston, Texas	29.99	761.7	30.03	762.7	80	26.7	74	se.	8	3.6	.....	2 cs	3 ks	.....	sw.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.28	743.7	29.95	760.7	55.0	12.8	90	ne.	6	2.7	.....	.....	10 s	.....	sw.	0 47	11.9	cloudy	Wm. H. Fallon.

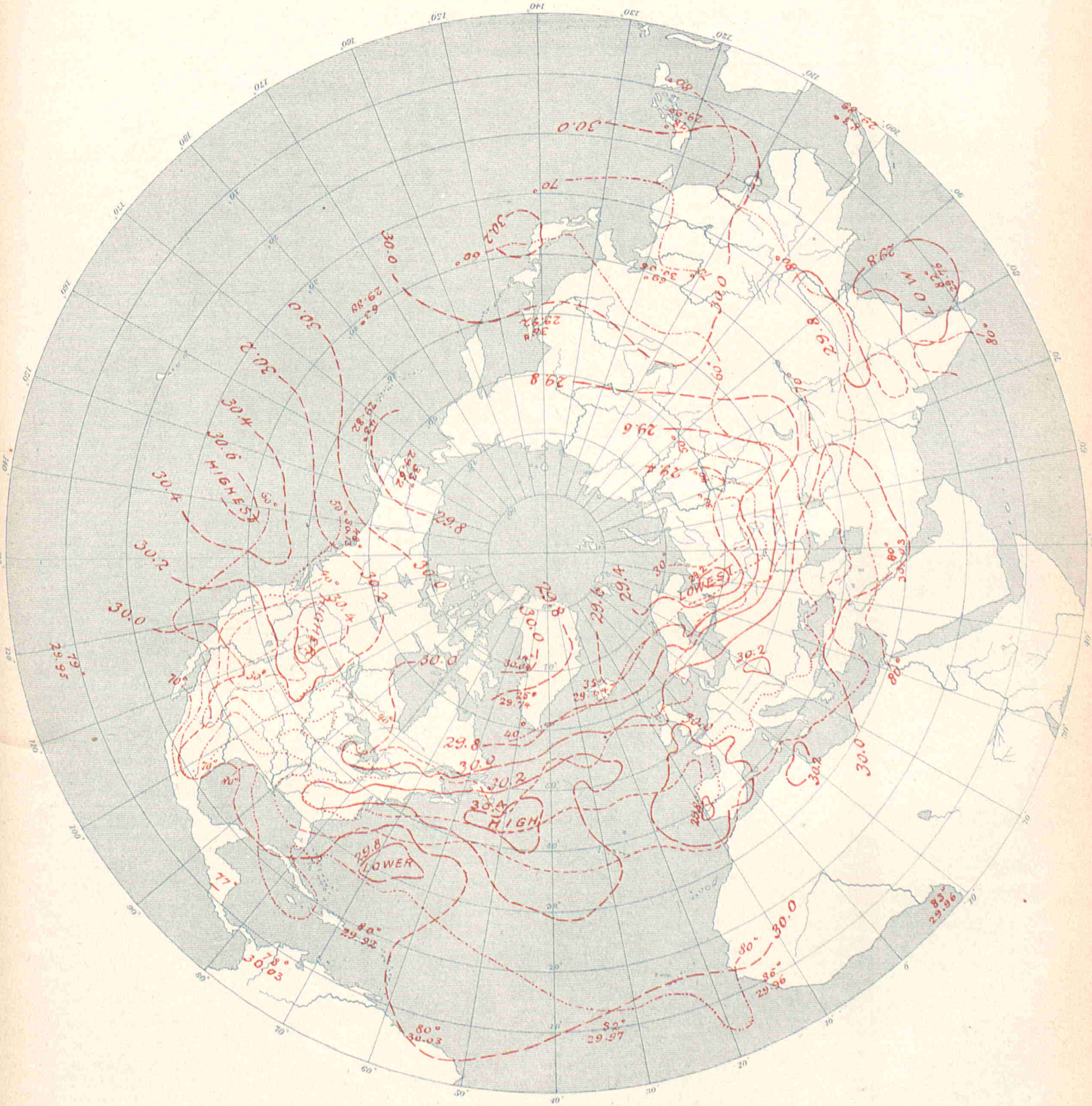
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.27	641.8	29.97	761.2	49.4	9.7	42	e.	2	0.9		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.09	764.3	30.10	764.5	64.0	17.8	93	ne.	16	7.2			10 s		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.12	663.4	30.42	772.7	29	— 1.7	80	ne.	4	1.8		0	0			blank	blank	clear	F. H. Jones.
Huron, Dakota	28.68	728.5	30.10	764.5	43.3	6.3	88	nw.	22	9.8		0	5 k		nw.	0.13	3.3	fair	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.05	763.3	69.0	20.6	81	w.	4	1.8			10n;s		sw;w	0.02	0.5	light rain	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	76.2	24.6	91	se.	7	3.1		3 cs	2 k		s.	0	0	fair	I. A. Reed.
Jacksonville Florida	30.08	764.0	30.12	765.0	64.0	17.8	90	n.	7	3.1		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	29.42	747.3	30.09	764.3	57.0	13.9	93	n.	4	1.8			10 s		n.	0.39	9.9	cloudy	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	80	26.7	74	ne.	10	4.5		3 ck	1 k	ne	ne.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	63	17.2	90	ne.	28	12.5			10 ks		ne.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.18	741.2	30.22	767.6	57.2	14.0	100	sw.	1	0.4			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.29	744.0	30.08	764.0	48	8.9	86	nw.	1	0.4			fg.			0	0	dense fog	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.09	764.3	57.5	14.2	86	ne.	2	0.9		0	5 s		ne.	0.15	3.8	fair	T. S. Outram.
Lewiston, Idaho	29.52	749.8	30.37	771.4	37.0	2.8	82	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.08	764.0	70.0	21.1	94	calm	0	0			10 s			inap.	inap.	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	55	12.8	49	ne.	9	4.0		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.54	750.3	30.11	764.8	69.5	20.8	87	s.	7	3.1		5 c	5 ks	w.	sw.	0	0	cloudy	L. M Dev.
Lynchburg, Virginia	29.52	749.8	30.21	767.3	51.0	10.6	90	calm	0	0			fg.			0	0	dense fog	Jno. Healy.
Mackinaw City, Michigan	29.38	746.2	30.05	763.3	48.4	9.2	83	ne.	14	6.3			10 s		e.	0.17	4.3	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.11	764.8	30.12	765.0	58.0	14.4	93	n.	16	7.2		0	8 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.87	657.1	30.41	772.4	25.5	— 3.6	88	n.	12	5.4			10 s		n.	0.90	22.9	cloudy	F. Burke.
Marquette, Michigan	29.36	745.7	30.10	764.5	43.5	6.4	79	w.	5	2.2		0	0			0.03	0.8	clear	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.08	764.0	72	22.2	97	s.	6	2.7		0	8 s		sw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.31	744.5	30.07	763.8	54.0	12.2	93	nw.	8	3.6			10 ks		n.	0.51	13.0	cloudy	W. Linn.
Mobile, Alabama	30.11	764.8	30.15	765.8	65	18.3	90	n.	3	1.3		1 c	hz.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.96	761.0	30.19	766.8	60.5	15.8	83	se.	2	0.9		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.04	737.6	30.06	763.5	45	7.2	93	e.	7	3.1			10 s		e.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.04	610.6	30.38	771.6	48.5	9.2	89	nw.	40	17.9		7 cs	0	w.		0	0	fair	S. W. Beall.
Nashville, Tennessee	29.56	750.8	30.14	765.5	69.0	20.6	78	s.	4	1.8		0	8k;hz		sw.	0	0	dense haze	L. N. Jesunofsky.
New Haven, Connecticut	30.12	765.0	30.24	768.1	44.2	6.8	89	n.	5	2.2		3 c	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.20	767.1	30.25	768.3	48.5	9.2	77	n.	2	0.9		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.10	764.5	73.0	22.8	84	se.	4	1.8		0	0			0	0	clear	M. Herman.
New York, New York	30.06	763.5	30.24	768.1	56.0	13.3	81	calm	0	0			fg.			0	0	dense fog	H. J. Penrod.
Norfolk, Virginia	30.12	765.0	30.16	766.1	60.5	15.8	80	n.	3	1.3		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.26	692.4	30.22	767.6	38.6	3.7	70	nw.	9	4.0		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.29	769.4	30.33	770.4	50.0	10.0	93	calm	0	0			10 s			0.08	2.0	cloudy	J. Dascomb.
Omaha, Nebraska	28.93	734.8	30.13	765.3	48.0	8.9	82	sw.	2	0.9		0	fg.			0	0	clear	A. Pollak
Oswego, New York	29.74	755.4	30.07	763.8	61.5	16.4	75	s.	10	4.5		0	5 k;hz		sw.	0	0	fair	J. G. Linsley
Palestine, Texas																			L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	64.3	17.9	82	ne.	5	2.2		0	hz.			0	0	clear	M. McGauran.
Philadelphia, Pa	30.14	765.5	30.24	768.1	52	11.1	86	nw.	4	1.8		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	30.11	764.8	14	—10.0	76	sw.	18	8.0		3 cs	0	sw.		inap.	inap.	clear	H. Hall.
Pittsburg, Pennsylvania	29.34	745.2	30.16	766.1	59.0	15.0	87	calm	0	0			fg.			0	0	dense fog	G. C Schaeffer.
Port Huron, Michigan	29.25	742.9	29.94	760.5	61.2	16.2	96	n.	6	2.7			10 s			0.48	12.2	cloudy	M. H. Perry
Portland, Maine	30.16	766.1	30.21	767.3	48.5	9.2	93	sw.	4	1.8			fg.			0	0	dense fog	W. W. Eichelberger.
Portland, Oregon	30.24	768.1	30.31	769.9	51.0	10.6	93	s.	4	1.8			10 n		s.	0.08	2.0	light rain	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.99	761.7	37.0	2.8	63	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.21	767.3	30.24	768.1	54	12.2	100	e.	3	1.3			fg.			0.02	0.5	dense fog	C. N. Kitchel.
Red Bluff, California	29.73	755.1	30.09	764.3	65	18.3	35	n	16	7.2		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.81	757.2	30.05	763.3	76.1	24.5	90	se.	5	2.2		0	5 s		se.	0	0	fair	Fred. Belford.
Rochester, N. Y	29.37	746.0	30.04	763.0	64	17.8	78	sw.	12	5.4		6c; k	sk.	sw.		0	0	fair	
Roseburg, Oregon	29.74	755.4	30.30	769.6	53.6	12.0	84	calm	0	0			10 s			0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	29.94	760.5	30.02	762.5	58.0	14.4	67	n.	7	3.1		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.45	748.0	30.07	763.8	66.0	18.9	93	sw.	8	3.6		4 c	3 s	sw.	sw.	1.18	30.0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.59	751.6	29.62	752.3	33	0.6	94	se.	1	0.4			10 n			0.11	2.8	light rain	Fred. H. Clarke.
St. Paul, Minnesota	29.20	741.7	30.06	763.5	51.0	10.6	83	calm	0	0		5 cs	5 s	w.		0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.22	742.2	30.12	765.0	43	6.1	100	n.	4	1.8			10 n			0.37	9.4	light rain	C. B. Dilley
Salt Lake City, Utah	25.74	653.8	30.14	765.5	45.3	7.4	63	ne.	4	1.8			10 s			0.08	2.0	cloudy	J. Craig.
San Diego, California	29.91	759.7	29.98	761.5	54.0	12.2	64	n.	4	1.8		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.99	761.7	30.04	763.0	70.0	21.1	93	nw.	7	3.1			10 n		nw.	0.01	0.3	light rain	J. B. Marbury.
Sandusky, Ohio	29.34	745.2	30.03	762.7	69	20.6	84	sw.	16	7.2		3 c	4 s	sw.	sw.	0	0	fair	B. F. Haugh.
Sandy Hook, New Jersey	30.21	767.3	30.24	768.1	55.0	12.8	80	e.	8	3.6		8 c	0	e.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	57.0	13.9	86	sw.	1	0.4		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.07	763.8	30.16	766.1	59.5	15.3	87	n.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.76	679.7	30.46	773.7	27.3	— 2.6	88	w.	4	1.8			10 s			0.02	0.5	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.79	756.7	30.03	762.7	71.5	21.9	68	s.	5	2.2			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly.
Sitka, Alaska	30.06	763.5	30.13	765.3	48	8.9	71	e.	3	1.3			10 ks		e.	0.05	1.3	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.55	750.6	30.03	762.7	67.5	19.7	93	calm	0	0			10 n			0.87	22.1	light rain	J. B. Campbell.
Smithville North Carolina	30.09	764.3	30.13	765.3	56.7	13.7	84	n.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.32	719.3	30.40	772.1	31	— 0.6	62	n.	1	0.4		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.33	745.0	30.02	762.5	66	18.9	90	w.	6	2.7			10 s		nw.	0.20	5.1	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.00	685.8	30.03	762.7	61.0	16.1	93	e.	1	0.4		6 cs	0			0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	30.24	768.1			47.0	8.3	93	e.	17	7.6		0	2 s		e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona					36	2.2	49	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.26	743.2	29.96	761.0	71	21.7	84	s.	12	5.4			10 ks		s.	0.01	0.3	cloudy	A. Buell.
Unalaska, Alaska	29.79	756.7	29.82	757.4	43	6.1	74	nw.	8	3.6			10 s		nw.	0.35	8.9	threatening	Samuel Applegate.
Verde, Fort, Arizona					43	6.1	47	nw.			1	0	0			0	0	clear	L. B. Montgomery.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	73.5	23.1	87	se.	4	1.8		0	2 s;hz		sw.	0	0	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.13	765.3	30.25	768.3	49.3	9.6	95	calm	0	0			fg.			0	0	dense fog	T. B. Harrison.
West Las Animas, Colorado	26.16	664.5	30.09	764.3	42.5	5.8	76	ne.	4	1.8		0	2 s			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.09	764.3	30.15	765.8	57.5	14.2	85	ne.	3	1.3		3 c	0			0	0	clear	Samuel A. Haney.
Yankton, Dakota	28.77	730.7	30.10	764.5	45.7	7.6	82	nw	24	10.7			10 s		nw.	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.79	756.7	29.94	760.5	55.1	12.8	74	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		nw.			3	2 cs	3 k		nw.	0.09	2.3	fair	W. H. Jackson.
Bogota, U. S. O.	22.07	560.5			55.0	12.8	74	calm	0	0		4 cs	6 ks	e.	nw.	0.130	3.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.94	760.5	76.3	24.6	84	n.	2	0.9		6c;cs	0	e.		0.01	0.3	fair	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	82	se.			2	2 c	4 k	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. O.	29.47	748.5	30.03	762.7	78	25.6	89	calm			0		10 ks		calm	0.08	2.0	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	90	calm			0	1 cs	3 ks	se.	e.	0.16	4.1		Earl Flint.
York Factory, B. A.	29.94	760.5	30.00	762.0	28.5	— 1.9	100	nw.	7	3.1			10 n		nw.	0.02	0.5	snowing	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 40° 48′, E. 24° 43′	30.10	764.5	65	18.3	58	nne.			3		1	nne.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.70	754.4	75	23.9	86	ene.			5		8	ese.						squally.
H. M. S. Himalaya, N. 41° 38′, W. 9° 44′	29.86	758 4	60	15.6	94	n.			3		8					1	nne.	d. clouds.
H. M. S. Iris, Alexandria, Egypt	29.89	759.2	71	21.7	85	nnw.			3		5							d. clouds.
H. M. S. Orontes, N. 20° 49′. W. 23° 24′	30.13	765.3	77.5	25.3	93	nne.			4		6	nne.				2	n.	d. clouds.
H. M. S. Opal, off Niger river, W. Africa	29.96	761.0	79	26.1	82	sw.			1–3		6	ssw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.96	760.9	83.3	28.5	85	sse.			3		9		sw.			2	sw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.18	766.6	42	5.6	91	calm	0	0			0			0	0			foggy.
U. S. S. Alliance, Portland, Me	30.24	768.1	46	7.8	92	w.			1		8							foggy.
U. S. S. Jamestown, N. 23° 34′, W. 56° 45′	30.06	763.5	81	27.2	91	ssw.			4		5		sw.			mod.	sw.	fair.
U. S. S. Kearsarge, Gibraltar, Mediterranean	30.00	762.0	67	19.4	84	ene.			1		10							cloudy.
U. S. S. Lancaster, Gibraltar, Mediterranean	30.03	762.7	66	18.9	100	nnw.			1		5		sw.			sm'h		fair
U. S. S. New Hampshire, Newport, R I			51	10.6	93	nne.			1		10							foggy.
U. S. S. Powhatan, N. 44° 03′, W. 63° 03′	30.29	769.4	57	13.9	100	wsw.			1		8		wsw.			long	s.	misty.
U. S. S. Quinnebaug, Leghorn, Italy	30.19	766.8	60	15.6	65	ne.			2		5?		ne.					clear?
U. S. S. Pinta, New York, N. Y	30.36?	771.1?	55	12.8	93	ene.			1		0							foggy
U. S. S. Saratoga, Tarrytown, N. Y	30.26	768.6	53	11.7	93	n.			2–3		5?		n.	0	0	sm'h		clear
U. S. S. Swatara, Boston, Mass	30.25	768.3	48	8.9	85	nnw.			1		0			0	0	sm'h		foggy.
U. S. S. Vandalia, Gardiner's Bay, Long Island†	30.24	768 1	58	14.4	88	e.			1		0							clear.
S. S. British Crown, N. 51° 21′, W. 30° 14′†	30.27	768.8	54	12.2		nw.			3		4		nw.	0	0	slt't	w.	clear.
S. S. British Prince, N. 43° 49′, W. 59° 17′			57	13.9		sse.			2		1		se.	0	0	mod.	se.	clear.
S. S. Ohio, N. 50° 39′, W. 30° 22′			51	10.6	86	ne.			4		4		ne.	0	0	sm'h	ene.	clear.
S. S. Prussian, Boston, Mass	30.24	768.1	49	9.4														foggy.
S. S. Scandinavian, N. 48° 05′, W. 43° 22′	30.41	772.4	52	11.1		nw.			2		2		se.	0	0	sm'h		d. clouds
S. S. Sardinian, N. 55° 54′, W. 46° 05′	23.83	757.7	44	6.7		s.			8		9		sw.	1 h'r	1 h'r	h'vy	sw.	overcast.
S. S. Ailsa, Kingston, Jamaica, W.I			88	31.1	100	calm			0		2		calm	0	0	sm'h		fine.
S. S. Avilla. N. 33° 49′, W. 74° 04′ *†	30.01	762.2	75	23.9		n.			6		8		n.	0	0		n;ne.	
S. S. Dorian, Gibraltar, Mediterranean	29.98	761.5				var.					10		w.	0	0	r'gh	w.	fine.
S. S. Furnessia New York, N. Y †	30.22	767.6	69	20.6	85	ene.			1									clear.
S. S. Carroll, Charlottetown, P.E.I. *†	30.25	768.3	66?	18.9?	89	sw.			2		10		sw.	0	0			threatening.
S. S. Jerome, N. 26° 53′ W. 63° 24′ *	29.95	760.7	81	27.2		ssw.			4		8		sw.	2 h'r	2 h'r	r'gh	nw.	cloudy
S. S. Llandaff City, N. 48° 20′, W. 41° 17′			57	13.9		nnw.			3		4		nnw.	0	0	sm'h		fine.
S. S. Pavonia, N. 49° 20′, W. 29° 50′*	30.22	767.6	57	13.9	81	ne.			5		7		nne.	0	0	slt't	ne.	
S. S. Scythia, N. 50° 22′, W. 22° 22′	30.19	766.8	58	14.4	82	nne.			2		8		nne.	0	0	mod.	ese.	cloudy.
S. S. Samaria, N. 44° 33′, W. 46° 20′ *	30.40	772.1	62	16.7		n.			4		2		n.	0	0	sm'h		clear.
S. S. Canada, N. 49° 44′, W. 31° 40′			69.8	21		nne			2	ck		nne.		0	0	long	sse.	foggy.
S. S. Wisconsin, N. 40° 50′, W. 68° 30′ *	30.17	766.3	59	15 0		ene.			2		fg.			0	0			cloudy.
S. S. Bohemia, Hamburg, Germany*†	30.15	765.8				wsw.			3		8		w.	0	0			cloudy.
S. S. Gellert, Hamburg, Germany			54	12.2	?	wsw.			2		8		w.	0	0			cloudy.
S. S. Lessing, N. 49° 30′, W. 37° 00′	30.30	769.6	56	13.3		n.			2		9		n.	0	0	sm'h		cloudy.
S. S. Rugia, N. 49° 24′, W. 34° 24′	30.18	766.6	54	12.2		ene.			2		4		ene.	rain	rain	mod.	ene.	fair.
S. S. Silesia, New York, N. Y	30.25	768.3	53	11.7										0	0			hazy.
S. S. Westphalia, Gluckstadt, Germany	30.07	763.8	56	13.3	94	nw.			5		6		nw.	0	0			fair.
S. S. Nessmore, N. 43° 34′, W. 50° 38′	30.43	772.9	53	11.7	86	e.			2		6		ne.	0	0	sm'h	e.	cloudy.
S. S. Hevelius, Liverpool, Eng†	30.04	763.0	58	14.4		sw.			3				sw.	4 h'r	4 h'r			cloudy.
S. S. Rosse, N. 47° 08′, W. 60° 15′*	29.94	760.5	60	15.6		ne.			5		10		wsw.	1 h'r	1 h'r	slt't	wsw.	overcast.
S. S. Rio Grande. N. 24° 39′, W. 81° 11′ †	30.02	762.5	79	26.1		n.			4		3		nne.	2 h'r	1 h'r	mod.	nne.	fair.
S. S. Lampassas, Galveston Bar, Texas			79	26.1		se.			5		4		ese.	0	0	short	ese.	cloudy.
S. S. Chalmette, New York, N.Y			60	15.6		ene.			5					0	0	long	e.	foggy.
S. S. New York. N. 25° 25′ W. 80° 00′ *†	30.04	763.0	80	26.7		n.			5		3		n.	0	0	r'gh	n.	clear.
S. S. Alleghany. N. 38° 08′. W. 74° 40′†	30.23	767.8	62	16.7		ne.			3		2		e.	0	0	long	e.	fair.
S. S. Archimede, N. 39° 59′. W. 73° 10′ †	30.20	767.1	65	18.3		nne.			3		6		nne.	0	0	mod	ene.	foggy.
S. S. City of Merida, N. 35° 00′, W. 75° 00′			72	22.2		ne.			5		10		ne.	0	0	h'vy	ne.	cloudy.
S. S. Cienfuegos, N. 38° 09′, W. 74° 32′*	30.22	767.6	60	15.6		ne.			2		10		ne.	0	0	long	ene.	cloudy.
S. S. Denmark, St. Catharines Point, Eng			57	13.9		e.			4		5		e.	0	0			fair.
S. S. Egypt, Mersey river. Eng	30.05	763.3	55	12.8		ssw.			2		10		sw.	0	0			hazy.
S. S. Grecian, N. 49° 33′, W. 60° 30′	30.01	762.2	59?	15.0?	94	sw.			4		10		wsw.	1 h'r	1 h'r			cloudy.
S. S. England, N. 44° 00′, W 47° 11′	30.40	772.1				ne.			4		0			0	0	sm'h		clear.
S. S. Erin, London, Eng			57	13.9		w.			3		10		s.	0	0			overcast.
S. S. Greece, N. 45° 56′, W. 37° 18′			62	16.7	88	nnw.			4		9		nne.	0	0	h'vy	ene.	d. clouds.
S. S. Holland, N. 45° 59′ W. 37° 23′	30.23	767.8	60	15.6		n.			6		7		nne.	3 h'r	3 h'r	mod	ne.	fair.
S. S. Donau. N. 43° 37′, W. 58° 31′	30.40	772.1				ese.			2		1			0	0	sm'h	sse.	clear
S. S. Elbe, Bremerhaven, Germany	30.16	766.1	57.2	14.0	94	nw.			2		10			0	0			covered.
S. S. Hohenstaufen, N. 43° 01′, W. 10° 15′	29.90	759.4	62.6	17.0		e.			1		4			0	0	mod.	e.	fair.
S. S. Orinoco. Bermuda, Atlantic			78	25.6		sse.			4		10		se.	4 h'r	4 h'r			raining.
S. S. Neckar, N. 50° 01′, W. 8° 40′	30.03	762.7	58.0	14.4	70	var.			1–2		5?		se,nw.	0	0	sm'h	nw.	cloudy.?
S. S. Ohio, N. 39° 42′, W. 29° 21′	30.19	766.8				calm			0		10?		nne.	3 h'r	3 h'r	mod.	nne.	clear?
S. S. Rhein, N. 43° 34′, W. 50° 35′	30.43	772.9				e.			2		3?		e.	0	0	mod.	e.	cloudy ?
S. S. City of Augusta, N. 36° 06′, W. 74° 36′						ne.			7		10		ne.			h'vy		cloudy.
S. S. Muriel, St. Thomas, W.I	29.94	760.5	83	28.3		ese.			3		0			0	0	sm'h		clear.
S. S. Rhynland. N. 50° 20′, W. 0° 50′	30.09	764.3	58	14.4		e.			3		3		e.	0	0			clear.
S. S. Pennland, N. 44° 39′, W. 51° 10′†	30.38	771.6	53	11.7	80	s.			3		0			0	0	sm'h		clear.
S. S. Switzerland, N. 41° 23′, W. 65° 29′*†	30.24	76[illegible].1				ene.			1		0			0	0	long	s.	clear.
S. S. Vaderland, N. 48° 20′, W. 38° 10′	30.33	770.4	66	18.9		calm			0		5		sw.	0	0	light	w.	fair.
S. S. Waesland, N. 50° 59′, W. 23° 50′	30.22	767.6	57	13.9		n.			4		6		n.	1 h'r	1 h'r	mod.	n.	fair.
S. S. Leerdam, N. 49° 39′. W. 17° 49′			60.1	15.6	93	nne.			2–4		10		n.	1 h'r	1 h'r	3	nw.	raining.
S. S. Schiedam, N. 44° 02′. W. 54° 46′	30.42	772.7	57.7	14.3	92	ssw.			5		5		sw.	0	0	sm'h		fair.
S. S. Zaandam, New York, N. Y	30.27	768.8	57.2	14.0	86	var.			2		3		e.	0	0			clear.
S. S. W. A. Scholten, New York, N. Y	30.27	768.8	57.2	14.0	91	e.			3		3		ene.	0	0			hazy.
S. S. Valencia. Curacoa, W.I*†	29.93	760.2	80	26.7	89	se.			2		7		ne.	4 h'r	4 h'r			fair.
S. S. State of Georgia, N. 51° 49′, W. 40° 02′	30.27	768.8	54	12.2		wsw.			3		4		w.	sh'rs	sh'rs	sm'h		fine.
S. S. State of Indiana, N. 53° 41′ W 30° 54′*†	30.26	768 6	45	7.2		nw.			3		4		nw.	3 h'r	3 h'r	mod.	nw.	squally.
S. S. Thingvalla, New York, N.Y †	30.27	768.8	64.4	18.0		nne.			3		1		nne.	7 h'r	7 h'r			clear.
S. S. Otranto, N. 48° 59′, W. 40° 02′	30.38	771.6	58	14.4		n.			1		2		w.	0	0			clear.
S. S. Romano, off Sandy Hook, N. J			56	13.3		n.			1		1		n.			sm'h		
S. S. Salerno, N. 49° 51′, W. 14° 00′*†	30.15	765.8	58	14.4		nw.			1		10		nw.	0	0	sm'h	nw.	cloudy
S. S. Dominion, N 53° 29′, W. 46° 16′*†	30.00	762.0	47	8.3		ssw.			6		10		ssw.			mod.	ssw.	cloudy.
S. S. Quebec, Montreal, Canada	30.11	764.8	60	15.6		s.			1		10		s.	0	0			overcast.
S. S. Texas, N. 56° 11′, W. 16° 16*†	30.15	765.8	52	11.1	79	sw.			3		2		sw.	0	0	sm'h		
S. S. Olbers, N. 29° 23′ W. 66° 33′	29.78	756.4	79	26.1	91	ssw.			6		5		sw.	3 h'r	3 h'r	rg'h	var.	squally.
S. S. Daniel Steinmann, N. 44° 04′, W. 58° 29′†	30.46	773.7	57	13.9		ese.			3		4		se.	0	0	light	sse.	fair.
S. S. Adriatic, N. 43° 22′, W. 59° 03′			57	13.9		se.			4				s.			mod.	s.	overcast.
S. S. Celtic, N. 43° 39′, W. 45° 40′ †	30.49	774.4	56	13.3		ne.			3		5		e.	0	0	sm'h		fair.
S. S. Iowa, N. 51° 34′, W. 17° 23′†	30.17	766.3	55	12.8		nnw.			4		9		nnw.	0	0	sm'h		cloudy.
S. S. Assyrian Monarch, Sandy Hook, N.J	30.27	768.8				e.			1		0			0	0	sm'h		hazy.
Bk. Arda, N. 24° 44′, W. 30° 35′						ne.			1		2		ne.	0	0	mod.	ne.	clear
Bk. Alpheus Marshall, N. 4° 22′, W. 18° 21′ *†	29.92	760.0	79	26.1	91	s.			3		10		s.	4 h'r	4 h'r	chop	se.	cloudy.
Bk. Ariadne, N. 56° 51′, W. 21° 55′	30.04	763.0	51	10.6	86	w.			4		8		w.	2 h'r	2 h'r	mod.	wsw.	squally.
Bg. Abbie Clifford, N. 25° 58′, W. 61° 01′†	29.94	760.5	81	27.2		ssw.			5		2		sw.	1 h'r	1 h'r	cross	var.	
Schr. Arthur Burton, Charleston, S.C. †	30.17	766.3				nne.			5		2			0	0	sm'h		clear.
Schr. Abbie H. Gheen, Baltimore, Md†	30.26	768 6	58	14.4		nw.			4									clear.
S. S. Antonio Lopez, Cadiz, Spain*	29.99	761.7	63	17.2	94	s.			5		9			3 h'r	3 h'r			squally.
Schr. Adda Doane, N. 22° 19′, W. 54° 50′ *†	30.11	764.8				se.			3		2		se.	2 h'r	2 h'r	sm'h		clear.
Bg. Belle of the Bay, Galveston, Texas†	30.02	762.5				s.			3		5		s.	0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Benledi, N. 36° —′, E. 14° 30′ *	30.03	762.7	76	24.4	91	e.			1–2		5		calm	0	0	sm'h		hazy
S. S. Burswell, N. 39° 09′, W 9° 44*†	29.80	756.9	65	18.3		e.			1		10			6 h'r	6 h'r	light	s.	heavy rain.
Bk. Ceylon, N. 8° 52′, W. 33° 03′†	29.97	761.2	82	27.8	91	s.			2		10			4 h'r	4 h'r	long	sse.	rainy.
Schr. Clotilde, N. 26° 25′, W. 76° 32 †	29.98	761.5	82	27.8		n.			4		5		ne.	0	0	h'vy	n.	fair.
Schr. C. R. Flint, Demerara, British Guiana †	30.00	762.0	83	28.3							3		ene.	0	0			clear.
S. S. D. J. Foley, Milk River, Jamaica, W. I.*†	29.90	759.4	81	27.2	87	ne.			1		2		ne.	0	0			clear.
Bk. Diamant, N. 49° 09′, W. 18° 03′	30.10	764.4	56.3	13.5	95	w.			1		8		calm	0	0	3	w.	cloudy.
S. Dynomene, N. 9° 48′, W. 24° 00′	29.98	761.5	81	27.2	87	calm			0		8			h'vy	h'vy	light	s.	d. clouds
S. E. J. Spicer, N. 45° 10′, W. 31° 08′	30.14	765.5	61	16.1	100	ene.			5		10		ne.	rain	rain	mod.	ne.	heavy rain.
S. Festina Lente, N. 46° 14′, W. 49° 30′	30.41	772.4	49	9.4		sw.			3		2		sw.	0	0	light	ese.	clear.
U. S. Fish. Com. S.S. Fish Hawk, Woods Holl, Mass†	30.22	767.6	55	12.8	93	ne.			1		10		calm	0	0			foggy.
S. Gatherer. N. 48° 30′, W. 17° 08′*	30.10	764.5	57	13.9	81	calm			0		0?			0	0			cloudy.?
Bg. George, N. 31° 50′, W. 73° 30′ *†	29.89	759.2	75	23.9		nne.			7		10		nne.	sh'rs	sh'rs	r'gh	ne.	stormy.
Bk. Galeon, N. 20° 37′, W. 47° 30′†	30.08	764.0	80	20.7		e.			4		2		e.	0	0	sm'h	n.	blue sky.
Bk. Hattie G. McFarland, New York, N. Y.†	30.25	768.3	52	11.1		nw.			2		4		w.	0	0			smoky.
S Hedwig, N. 20° 08′, W. 51° 04′	30.11	764.7	81.1	27.3	80	ene.			3		4		var.	½h'r	½h'r	2	nnw.	fine.
Bk. Heinrich & Tonio, N. 49° 45′, W. 4° 30′ †	30.03	762.7	59.5	15.3		ene.			2		0			0	0	sm'h		clear.
Schr. Isabel Alberto, N. 27° 05′, W. 83° 08′†	30.11	764.8				ene.			3		2		e.	0	0	light	n.	clear.
Bk. Ibis, N. 37° 00′, W. 73° 40′*	30.14	765.5	63	17.2		ne.			6		10		ne.	c	0	h'vy		cloudy.
Bk. John H. Pearson, N. 36° 05′, W. 9° 53′ †						wsw.			5				nw.	4 h'r	4 h'r	rg'h	wsw.	clear.
Schr. Jas. Slater, N. 31° 28′, W. 66° 25′	29.73	755.1				sw.			6		8		nw.	3 h'r	3 h'r	h'vy	ene.	squally.
Bg. Josefa, Sydney, N. S.†	30.24	768.1				sw.			4		8		wsw.	0	0	sm'h		cloudy.
Bk. Lady Hincks, N. 35° 15′, W. 64° 02′*†	30.00	762.0									9		ene.	sh'rs	sh'rs	high	ene.	hazy.
Bg. Lillan, N. 23° 16′. W. 64° 55′ †..	29.94	760.5	81	27.2		ssw.			3		8		sw.	1½h'r	1½h'r	r'gh		threatening.
Bg. L. & W. Armstrong, N. 38° 45′, W. 74° 40′*†.	30.16	766.1				ne.			3		1		ne.	0	0	sm'h	ene.	clear.
S. S. Madrid, Kertch, Russia†	30.16	766.1	57	13.9	81	ne.			2		2		ne.	0	0			fair.
Bk. Matthias, N. 39° 01′, W. 51° 00′ *†	30.34	770.6	73.0	22.8		ene.			3		3		e.	0	0	4	e.	fair.
Schr. Norena, N. 34° 25′, W. 67° 20′*†	29.79	756.7				e.			3		3		nne.	3 h'r	3 h'r	r'gh	var.	squally.
Bk. National Eagle, N. 36° 30′. E 13° 25′.						nne.			2		2		ne.	0	0			clear.
S. S. Radnorshire, N. 37° 35′, E. 8° 44′*†	30.16	766.1				e.			4		0			0	0	sm'h	ene.	clear.
Schr. Rollin Sanford, Milton, Fla.†	30.16	766.1				n			2					0	0			hazy.
Bg. Rising Sun, N. 23° 40′, W. 57° 12′†	30.11	764.8	79	26.1		sse.			5		1		sse.	0	0	mod.	sse	clear.
Bk. Rosalie, N. 11° 13′, W. 26° 57′*†	29.95	760 7				se.			3		6		sw.	17 h'r	17 h'r	mod.	sse.	fair.
Bk. Saga, N. 57° 20′, E 7° 52′ *†	30.01	762.2	56	13.3		var.			3–7		2		nw.	0	0	r'gh	w.	clear.
S. Salisbury, N. 43° 08′, W. 28° 00′	30.07	763.8	65.8	18.8	75	sse.			4		8 nc		var.	1 h'r	1 h'r	r'gh	sse.	cloudy.
Bk. Samuel B. Hale, N. 35° 11′, W. 36° 08′*†	30.26	768.6				sse.			5				sse.	0	0	long	ne	clear.
Bk. Sunbeam, N. 46° 08′, W. 24° 42′†	30.12	765 0	60	15.6	100	nne.			5		6		w.	6 h'r	6 h'r	mod.	e.	fair.
Bk. Scud, N. 19° 08′, W. 57° 47′*†	30.07	763.8	88	31.1		se.			5		2		se.	0	0	sm'h		fine.
S. St. Francis, N. 37° 19′, W. 57° 03′			76	24.4		e.			8		4		e.	3 h'r	3 h'r	h'vy	e.	d clouds.
Schr. Walter L. Plummer, N. 24° 39′, W. 30° 29′*†	30.15	765.8				ene.			2		1		ne.			sm'h	ne.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 23° 07′, W. 39° 00′	29.99	761.7	71.5	21.9	78	ssw.			4		6	n.				3	var.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.86	758 4	60	15.6	82	w.			2		7	nw.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.21	767.3	59.7	15.4	82	n.			1		0							blue sky.
H. M. S. Tyne, S. 20° 26′, W. 2° 23′	30.18	766.6	67	19.4	74	se.			4		5	se.				4	se.	d. clouds.
H. P. M S Rainha de Portugal, Landana, Guinea	29.93	760.2	78.8	26.0	80	ssw.			4		4		ssw.	3 h'r	3 h'r	3	ssw.	d. clouds.
H P. M. S. Bengo, S. 11° 11′, E. 13° 37′	29.98	761.5	75.7	24.3	85	sw.			3		10			0	0	2		overcast.
U. S. S. Brooklyn, S. 37° 04′, W. 30° 18′*	29.77	756.1	59	15.0	100	nnw.	21	9.4			10		nnw.	0.67	17.0	mod.	nnw.	rainy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.20	767.1	62	16.7	83	wnw.					0					sm'h		clear
S. S. Sirius, Rio de Janeiro, Brazil	30.13	765.3				calm			0		9		s.	4 h'r	4 h'r			cloudy.
Bk. Aureola, S. 22° 40′, W. 40° 20′†	30.05	763.3	80	26.7		s			6		3		s.	2 h'r	2 h'r	h'vy	sw.	clear.
Bk. Adelaide, S. 8° 31′, W. 34° 15′ *†	30.10	764.5	81	27.2		ese.			4		1		ese.	0	0	mod.	se.	hazy.
S. David Crocket, S. 44° 20′, W. 37° 22′*.	30.05	763.3	49	9.4	89	nw.			4		10		nw.	0	0	long	sw.	overcast.
Bk. E. L. Pettingill, S. 42° 16′. W. 57° 16 ′*†	30.30	769.6	50	10.0		s.			2		0			0	0	sm'h		clear.
Bk. Grey Eagle, S. 15° 01′, W. 33° 45′ *†	30.00	762.0				ese.			4		1		ese.	½ h'r	½ h'r	short	e.	clear.
Bg. John Wesley, Natal, Brazil.*†	29.90	759.4	80	26.7		ese.			3		2			0	0			clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.13	765.3				ne.			1		0			0	0			clear.
S. S. Menadoza, S. 24° 29′, W. 33° 03′†	30.15	765 8				n.			4		10		nne.	0	0	r'gh	nne.	
Bk. Mohican, S. 39° 20′, W. 6° 30′	29.65	753.1	60	15.6		nne.			8		10		nne.	20 h'r	20 h'r	short	ne.	foggy.
Bk. Pilgrim, S. 11° 00′, W. 15° 18′*†	30.10	764.5				e.			4		3		e.	0	0	mod.	e.	clear.
Bgt. Willie, S. 34° 30′, W. 53° 40′ *†	30.20	767.1	54	12 2		n			2		fg.			0	0	sm'h	s.	foggy.
Bk. Childwall, S. 8° 22′, W. 31° 45′*	29.97	761.2	81	27.2		e.			5		8		ese.	0	0	light	ese.	fair.
Bk. Achille F, S. 21° —′, W. 36° —′ †	30.12	765.0	77	25.0		nne.			4		5		ne.	0	0	mod.	ne.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.12	765 0	70	21.1	85	ne.			1		7	ne.						d. clouds.
H. M. S. Champion, Singapore, Malay Peninsula	29.89	759 2	83	28.3	87	calm			0		4							d. clouds.
H. M. S. Flying Fish, N. 35° 19′, E. 125° 45′	30.15	765.8	68	20.0	82	nnw.			1		0					1	nnw.	blue sky.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.13	765.3	73	22.8		calm			0		0							blue sky.
H. P. M. S. Tamega, Canton, China	30.07	763.8	80.6	27.0	80	calm			0		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.23	767.8	65	18.3	84	calm			0		10		n.	0	0			gloomy.
U. S. S. Essex, Nagasaki, Japan	30.11	764.8	69	20.6	90	calm			0		0							clear.
U. S. S. Hartford, Corinto, Nicaragua*	29.86	758.4	76	24.4	95	n.			2		8			2 h'r	2 h'r			fair.
U. S. S. Juniata, Canton, China	30.05	763.3	83	28.3	71	sw.			1		2			0	0			fair.
U. S. S. Monocacy, Ross Island, Corea	30.16	766.1	66	18.9	84	calm			0		0							clear.
U. S. S. Pensacola, Yokohama, Japan *	30.07?	763.8?	69	20.6	80	n			1		10			0	0			cloudy.
U. S. S. Ranger, Mare Island, Cal	30.09	764.3	62	16.7	77	sw.			1		2			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.19	766.8	69	20.6	85	ene.			2		10		ene.	1.00	25.4			cloudy.
S. S. Oceanic, N. 39° 38′, E. 175° 45′	29.88	758.9	63	17.2	89	sw.			4–6		7			rain	rain	4	var.	fair.
S. S. Columbia, N. 43° 42′, W. 124° 46′†	30.31	769.9	58	14.4	97	nnw.			1		10		nnw.			mod.	nnw.	misty.
S. S. Oregon, Columbia River, Oregon†	30.34	770.6	53	11.7	94	calm			0		10		w.					cloudy
S. S. Ancon, Point Arquello, Cal.†	29.84?	757.9?	55	12.8	81	n.			2		0			0	0	mod	n.	clear.
S. S. Queen of the Pacific. N. 40° 30′, W. 124° 34′†	30.23	767.8	58	14.4	87	nnw.			6		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. City of Pekin, Hong Kong, China†	30.12	765.0	77	25.0	69	e.			2		8		ene.	0	0			cloudy.
S. S. City of Tokio, N. 40° 56′, E. 171° 56′			62	16.7	90	nnw.			6		10		nnw.	3 h'r	3 h'r	r'gh	nnw.	squally.
S. S. City of Rio de Janeiro, N. 38° 53′. W. 139° 15′†	30.70	779.8	62	16.7	90	ne.			4		8		e.	0	0	light	ne.	foggy.
S. S. Colima, N. 16° 10′, W. 99° 11′ †	29.95	760.7	80	26.7	82	ne.			3		4		ne.	0	0	small	ne.	clear.
S. S. Granada, Acapulco, Mexico†	29.92	760.0	80	26.7	82	calm			0		0			3 h'r	3 h'r			clear.
S. S. San Blas, Panama, Panama†	29.93	760.2	76	24.4		se.			3		8		se.	1¼ h'r	¾ h'r			cloudy.
S. E. B. Sutton, N. 7° 00′, W. 117° 50′*†	29.95	760.7	79	26.1	86	s.			4		10		sse.	0	0	r'gh		cloudy.
S. Storm King, N. 2° 04′, W. 120° 22 *†	30.00	762.0				se.			5		4		se.	0	0	mod.	ese.	fine.
U. S. S. Palos, Canton, China	30.07	763.8	80	26.7	78	calm			0		0							clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.97	761.2	82.3	27.9	83	calm			0		7					sm'h		d clouds.
H. M. S. Magpie, S. 6° 05′, E. 100° 48′	29.89	759.2	77.7	25.4	91	sse.			2		2							blue sky.
H. M. S. Mutine, S. 16° 50′, W. 72° 40′	30.03	762.7	62	16.7		ese.			1		10					1	se.	overcast.
H. M. S. Nelson, Sydney, N.S. W	29.90	759.4	59	15.0	82	calm			0		0							blue sky.
U. S. S. Iroquois, Callao, Peru	30.06	763.5	62	16.7	88	nw.			2		10					sm'h		misty.
U. S. S. Lackawanna, Valparaiso, Chili *	30.12	765.0	56	13.3	87	calm			0		2		sw.					clear.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	61	16.1	88	wnw.			1		10		nw.			mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili*	30.06	763.5	55	12.8	93	calm			0		5					sm'h		fair
S. S. Australia, Sydney, N. S. W	30.17	766.3	52	11.1	100	sw.			2		0			0	0			clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. City of New York, S. 18° 28′, W. 172° 08′†	30.03	762.7	79	26.1	95	calm	.....	.....	0	.....	0	.....	.....	0	0	mod.	se.	clear.
S. S. City of Sydney, S. 33° 51′, E. 178° 10′*†	29.58	751.3	56	13.3	87	sw.	.....	.....	5	.....	8 k;n	.....	sw.	.....	.....	mod.	ne.	cloudy.
Bk. Godeffroy, S. 37° 45′, W. 75° 30′	30.23	767.8	.....	.....	.....	sse.	.....	.....	4	.....	7	.....	sse.	shr's	shr's	long	ssw.	rainy.
S. Sovereign of the Seas, S. 9° 56′, W. 99° 57′ *†	30.18	766.6	71	21.7	90	se.	.....	.....	6	.....	9	.....	se	rain	rain	r'gh	sse.	cloudy.
S. Armenia, S. 23° 20′ W. 123° 25′*	30.03	762.7	76	24.4	82	nw.	.....	.....	3	.....	5	.....	nw.	0	0	mod.	sw.	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9	.....	calm	.....	.....	0	.....	8	.....	se.	.....	.....	mod.	se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	30.00	762.0	76	24.4	91	calm	.....	.....	0	.....	7	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.04	763.0	76	24.4	95	ese.	.....	.....	3	.....	3	ese.	.....	.....	.....	3	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab river, Turkey	30.03	762.7	89.5	31.9	54	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Bore, S. 32° 59′, E. 29° 34′ *†	30.22	767.6	78	25.6	.....	wnw.	.....	.....	2	.....	10	.....	w.	1 h'r	1 h'r	sm'h	ene.	cloudy.
S. Frank N. Thayer, S. 27° 39′, E. 45° 12′*†	30.09	764.3	75	23.9	86	nne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	blue sky.
Bk. Great Surgeon, S. 38° 36′, E. 65° 05′*†	29.98	761.5	60	15.6	.....	w.	.....	.....	6	.....	7	.....	wsw.	1 h'r	1 h'r	h'vy	w.	fair.
S. S. Galatia, N. 10° 00′, E. 83° 26′†	29.76	755.9	82	27.8	83	wsw.	.....	.....	2	.....	8	.....	sw.	2 h'r	2 h'r	mod.	sw.	gloomy.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 11, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.4	72.0	22.2	76	se.			2		6			0	0	cloudy	Roziere.
Algiers			30.01	762.3	73.4	23.0	68	w.			7		0			0.079	2.0	clear	Thève.
La Galle			29.97	761.3	74.5	23.6	69	nnw.			5		4			0.150	3.8	cloudy	Fonfrède.
Tunis			29.96	761.0	67.6	19.8	83	nw.			4		5			0.106	2.7	cloudy	Delord.
Saida			30.06	763.6															Pérés.
Tebessa			30.09	764.2	66.9	19.4	68	w.			2		4			0	0	cloudy	St. Martin.
Geriville					64.4	18.0	20	nw.			3		2			0	0	fair	Forfert.
Laghouat			30.01	762.2	72.3	22.4	26	se.			1		4			0	0	cloudy	Abraham.
Biskra			30.11	764.9	81.7	27.6	38	w.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.30	769.6	56.3	13.5	68	se.	8	3.6		2 c				0	0	d. clouds	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.23	767.8	30.32	770.1	53.0	11.7	77	ssw.	7	3.1			8			0.04	1.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.44	747.8	29.99	761.7	55.4	13.0	68	ne.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.25	743.0	30.02	762.4	57.4	14.1	69	se.	6.3	2.8			10			0	0		Dr. Wierzbiski
Eperies	29.20	741.7	30.08	764.1	53.2	11.8	81	calm			0		10n;fg			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.64	727.5	30.06	763.6	59.4	15.2	51	e.			3		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	725.8	29.93	760.1	48.4	9.1	91	ene.			1		10			0	0	cloudy	The Staff.
Lemberg	29.14	740.2	30.14	765.5	52.0	11.1	80	se.			3		10			0	0		Dr. T. Stanecki.
Pola	29.85	758.3	29.97	761.1	58.5	14.7	67	e.			3		7			0	0		I. R. Hydrographic Office.
Szathmar	29.58	751.3	30.04	762.9	63.0	17.2	55	s.			3		4			0	0		Joseph Midlinszky, S. J
Szegedin	29.76	755.9	30.04	762.9	59.9	15.5	61	se.			1		10			0	0		Karl Stancel.
Trieste	29.90	759.4	30.00	761.9	64.4	18.0	46	e.			1		3			0	0		Royal Academy.
Vienna	29.26	743.1	29.97	761.2	57.4	14.1	60	se.			4		6			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.79	756.7	29.89	759.2	51.6	10.9	57	nw.	16	7.2			3			0.015	0.4	blue sky	W. Boswell.
Armagh, Observatory	29.76	755.9	29.99	761.7	52.4	11.3	51	nnw.	4	1.8			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.90	759.4	53.8	12.1	87	nw.	14	6.3			9					overcast	John Hartnup.
Bolton, Sharples	29.34	745.2	29.87	758.7	53.0	11.7	88	ne.	6	2.7			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.48	748.8	29.88	758.9	52.1	11.2	90	ne.			1		10			0.02	0.5	raining	McLandsborough & Preston.
Cardington	29.79	756.7	29.90	759.4	57.0	13.9	84	n.			1		8					overcast	John McLaren.
Chatham, School M. E.	29.70	754.4	29.87	758.7	57.7	14.3	85	calm			0		10					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.71	754.6	29.94	760.5	56.7	13.7	72	nw.			1		6					d. clouds	The Staff.
Fort Napier, Natal	27.30	693.4	29.52	749.8	83.0	28.3	81	calm			0		6					d. clouds	C. Stares, A.H.C.
Freetown, Sierra Leone	29.67	753.6	29.90	759.4	89.0	31.7	63	sw.			3		1					raining	J. W. Smith.
Galway, Queen's College	29.93	760.2	29.97	761.2	52	11.1	79	n.			1		3			0.01	0.3	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	68.0	20.0	91	nw.			4		6					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.72	754.9	29.92	760.0	51.8	11.0	66	wnw.			3		3					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.70	754.4	29.88	758.9	52.8	11.6	93	w.			1		10					foggy	The Staff.
Guernsey	29.63	752.6	29.92	760.0	58.3	14.6	79	s.			1		9					gloomy	A. Collenette, F. M. S
Kew, Observatory	29.85	758.2	29.88	758.9	55.8	13.2	86	nne.	3	1.3			9					misty	The Staff.
Leicester, Museum	29.62	752.3	29.87	758.7	55.0	12.8	90	w.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.78	756.4	29.86	758.4	72.4	22.4	68	se.			3		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.87	758.7	29.92	760.0	80.0	26.7	64	sw.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.37	746.0	29.90	759.4	53.7	12.1	89	wnw.			2		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.66	753.4	29.89	759.2	57.7	14.3	77	calm			0		3					blue sky	The Staff.
Plymouth	29.84	757.9	29.91	759.7	57.2	14.0	78	nnw.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.78	756.4	29.88	758.9	45.6	7.6	70						5					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.80	756.9	29.87	758.7	69.0	20.6	63	nw.			1		6					d. clouds	W. H. Lyne.
Sheffield	29.61	752.1	29.89	759.2	54.9	12.7	98	ne.			1		10			0.05	1.3	overcast	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.91	759.7	55.7	13.2	72	n.			2		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.90	759.4	52.6	11.4	90	ne.	3	1.3			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					56.8	13.8	88	sw.			0.5		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.89	759.2	29.96	761.0	62	16.7	77	nw.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	30.02	762.5	30.04	763.0	53.2	11.8	70	nne.	14	6.3			4					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.56	750.8	29.96	761.0	73.8	23.2	59	se.	6.2	2.8		6 cs	0	W.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.13	765.3	30.15	765.9	53.0	11.7		calm	0	0		10 cs	0	W.		0.270	6.9	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.08	764.0	61	16.1	95	nw.	4	1.8			10 s		W.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.09	764.3	30.15	765.8	52	11.1	90	n.	3	1.3			10 s		n.	0.08	2.0	cloudy	G. A. Blair.
Cornwall, Ontario	30.01	762.2	30.20	767.1	49.2	9.6	94	nw.			1		10 s			0.070	1.8	overcast	Jas. Smith, M. A.
Dalhousie, N. B.	30.12	765.0	30.17	766.3	48.0	8.9		w.			2		10 ks			0.50	12.7		H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.21	767.3	30.24	768.1	39	3.9	89	n.	8	3.6		0	2 k		calm	0.20	5.1	clear	J. McWilliams.
Fort Garry, Manitoba*	29.38	746.2	30.25	768.3	30	— 1.1	88	n.	10	4.5			10 ks		n	0.63	16.0	cloudy	James Stewart.
Fredericton, N. B.	30.07	763.8	30.13	765.3	57.0	13.9	94	w.	3	1.3			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	30.06	763.5	30.11	764.8	55	12.8	96	calm	0	0			fg.			0	0	foggy	J. Chipman Seeley
Granton, Ontario	29.13	739.9	30.24	768.1	41.0	5.0	100	calm	0	0		4 c	0	se.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.99	761.7	30.11	764.8	61	16.1	100	w.	4	1.8			fg.			0	0	dense fog	A. Allison.
Hamilton, Ontario	29.82	757.4	30.20	767.1	51.9	11.1	93	ne.			2	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.25	768.3	47	8.3	83	n.	6	2.7			10 k		w.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.02	762.5	30.06	763.5	69.0	20.6	85	sw.			3								C. H. Rigby.
London, Ontario	29.35	745.5	30.27	768.8	42.9	6.1	98	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.98	710.7	30.37	771.4	31	— 0.6	81								W.	0.05	1.3	cloudy	John Ewart.
Minnedosa, N. W. T	28.31	719.1	30.31	769.9	25	— 3.9	84	w.	1	0.4			10 s		n.	0.14	3.6	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.04	763.0	30.24	768.1	48	8.9	80	w.	6	2.7			10 s			0	0	overcast	C. H. McLeod, C. E.
Ottawa, Ontario	30.02	762.5	30.24	768.1	45.9	7.7	89	n.					10 s					fair	A. McGill, M. A.
Parry Sound, Ontario*	29.59	751.6	30.31	769.9	37	2.8	100	ne.	1	0.4		0	2 ks		e.	0.37	9.4	overcast	Rev. R. Mosley.
Peterboro, Ontario	29.55	750.6	30.30	769.6	50.7	10.4	85	ne.			1		10 k			0	0	cloudy	Wm. O'Connor, M.A.
Port Arthur	29.40	746.7	30.11	764.8	44	6.7	86	sw.	5	2.2		5 ck	5 ks	W.		0.06	1.5	cloudy	W. P. Cooke.
Port Dover, Ontario	29.54	750.3	30.24	768.1	49	9.4	100	ne.	8	3.6			10 n			c	0	cloudy	A. Morgan
Port Stanley, Ontario	29.59	751.6	30.24	768.1	50	10.0	93	w.	5	2.2			10 n		W.	c	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.96	710.2	30.34	770.6	28	— 2.2	96	calm	0	0			10 n			0.02	0.5	light snow	Leslie Gordon.
Quebec, Quebec*	29.85	758.2	30.20	767.1	49	9.4	93	e.	8	3.6			10 ks		ne.	0.31	7.9	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.85	758.2	30.32	770.1	43	6.1	83	n.	3	1.3			10 s		ne.	0.68	17.3	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.03	762.7	30.08	764.0	53	11.7	100	calm	0	0			fg			0	0	dense fog	
St. John, N. B	29.96	761.0	30.15	765.8	52.0	11.1	100	calm	0	0			10 n			0.016	0.4	foggy	G. Hutchinson.
Saint John's, N. F.	29.86?	758.4?	30.11?	764.8?	58	14.4	94	sw.			1		10 n			0	0	cloudy	J. Higgins.
St. Pierre, N. F.			30.00	762.0	56.5	13.6		s.			2					0.039	1.0		The Commandant.
Saugeen, Ontario*	29.54	750.3	30.28	769.1	36	2.2	89	calm	0	0		2 cs	0			0.05	1.3	clear	
Stratford, Ontario	28.96	735.6	30.27	768.8	42.0	5.6	91	calm	0	0		4 cs	0	sw.		0	0	blue sky	G. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Canadian.—Continued.																			
S. W. Point, Anticosti	30.08	764.0	30.12	765.0	40	4.4	89	nw.			2	0	0			0	0	clear	Miss Grace Pope.
Sydney, C. B.	30.00	762.0	30.06	763.5	61	16.1	100	sw.	12	5.4		5 c	5 ks	w.	sw.	0	0	fair	[illegible], C. E.
Toronto, Ontario*	29.89	759.2	30.28	769.1	49	9.4	83	ne.	6	2.7			10 n		e.	inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.20	741.7	30.29	769.4	44.5	6.9	93	n.	6	2.7		0	9 ks			0	0	overcast	Prof. N Wolverton, M. A.
Yarmouth, N. S*	30.05	763.3	30.12	765.0	58	14.4	100	calm	0	0		fg	fg			0.01	0.3	foggy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	29.68	753.9	29.71	754.6	62.5	16.9	83	sw.	14.0	6.3		4 cs	0			0.150	3.8	fine	I. Garfelt.
Springbok Fontein	27.91	708.9			47	8.3	79									0.19	4.8	h'vy show'rs	J. T. Eustace
Chilian.																			
Coquimbo	29.95	760.6	30.02	762.6	57 2	14.0	89	n.			2	10						cloudy	Samuel Redolez.
Iquique	29.97	761.1	29.99	761.8	63.1	17.3	83	nw.			3	3 ck	0					fair	Rafael Moreno.
Niebla	29.56	750.9	29.67	753.6	53.6	12.0	78	e.			3	0	3 n		nw.	0	0		Federico Kühling.
Punta Caldera	29.95	760.6	30.03	762.8	57.2	14.0	83	sw.			1	6 c	k	nw.	nw.			fair	Manuel Tobar.
Punta Corona	30.12	765.0	30.31	769.8				e.			2		10			0	0	hazy	Francisco Alvarado.
Valparaiso	29.81	757.1	29.95	760.7	56.3	13.5	90	se.			1	10						cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.35	643 8																	A. Gueluy.
Zi-Ka-Wei, near Shanghai.	30.18	766.5	30.20	767.1	60.8	16.0	89	ne.	0.4	0.2		2 ck	0			0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.78	756.4	29.83	757.6	54.3	12.4	89	sse.	11	5			10					hazy	Oversergent Fischer.
Fanoe	29.79	756.6	29.81	757.1	54.5	12.5	91	wsw.			2		7						Overloerer Lauridsen.
Godthaab, Greenland	29.49	749.1	29.54	750.2	26.6 —	3.0	74	ne.			4		0						S. Kleinschmidt.
Jacobshavn, Greenland	29.64	752 9	29.69	754.1	19.2 —	7.1		e.			4		1						
Stykkisholm, Iceland	29.84	757.8	29.88	758.9	33.1	0.6	87	ne.			7		2						A. O. Thorlacius.
Thorshavn	29.74	755.5	29.77	756.1	43.5	6.4	69	w.	16	7			2						Overloerer Bergh.
Vestervig	29.70	754.3	29.79	756.6	54.0	12.2	93	s.			2		10						Loerer Oesterbol.
Egyptian.																			
Cairo	29.80	756.8			77.4	25.2		nnw.	5.8	2.6		5 cs				0.417	10.6		Albert Ismaiun.
French.																			
Agen, Normal School	29.33	744 9	29.97	761.3	61.5	16.4	96	sse.			1		nk	sw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.38	746 2	29.97	761.2	53.6	12	87	s.			1		5		n.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	29.84	757 8	29.91	759.8	63.7	17.6	57	n.			1		10			0	0	covered	M. Giraud, Director
Bar-sur-Seine	29.34	745.2	29.89	759.2	58.6	14.8	61	sw.			1		10			0	0	covered	M. Saillard, Director
Beauvais, Normal School	29.61	752.0	29.87	758.6	59.4	15.2	75	e.			1		8			0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.91	734.4	29.82	757.3	51.8	11	81	ssw.			1		5		nnw.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.64	752.9	29.90	759.4	66.0	18.9	72	w.			1		5			0.083	2.1	cloudy	M. Rayet, Director.
Bourges, Normal School	29.35	745 4	29.88	759.0	66.2	19	63	se.			2		kn		se.	0			M. Malet, Director.
Brest, Naval Observatory	29.75	755.6	29.99	761.8	57.6	14.2	84	n.			1		8		n.	0.008	0.2		M. de Kermarsé, Dir.
Caen, Normal School	29.78	756.5	29.85	758.3	60.1	15.6	76	w.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.54	750 3	29.86	758.4	58.6	14.8	96	ne.			1		5		s.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.37	746.1	29.88	758.9	51.8	11.0	80	e.			1		fg	w.		0	0	light fog	M. Noel, Director.
Clermont-Ferrand Obs'y	28.54	724.8	29.85	758.2	67.1	19.5	50	nw.			1		5			0	0		M. Allnard, Director.
Cluny, Normal School	29.05	737.9	29.91	759 6	63.9	17.7	51	sse.			1				sse.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.03	737.3	29.86	758.5	62.6	17	72	e.			1		0			0	0	clear	Dr. Coulet, Director.
Gap, Normal School	27.40	696.0	29.87	758.7	63.5	17.5	61	calm			0		7 n		nw.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.77	730.7	29.87	758 7	63.5	17.5	50	se.			2		9		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.13	740 0	29.89	759.1	63.0	17.2	52	sw.			1	cs			sw.	0	0		M. Ablard, Director
Guéret, Normal School	28.36	720 4	29.92	760.0	60.8	16	59	sw.			1		2 s			0	0	slightly cl'dy	M. Delorme, Dir.
Lamballe, Normal School	29.63	752.5	29.90	759.5	59.0	15	74	nw.			2		5		nw.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.34	745.1	29.89	759.3	62.2	16.8	73	ssw.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.83	757.7	29.93	760.3	68.4	20.2	55	nnw.			1		2		calm	0	0	¼ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.85	732.9	29.89	759.2	64.2	17.9	44	sse.			1	5 cs ck				0	0	cloudy	M. Andre, Director
Mans, Normal School	29.60	751.8	29.91	759.6	56.8	13.8	91	nw.			1		8		nw.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.62	752.4	29.89	759.1	67.1	19.5	89	e.			2		10		s.	0	0		M. Stephan, Director.
Montlouis	24.69	627.0	29.53	750.0	44.6	7.0	69	n.	11.2	5.0			8		sw.	1.110	28.2		M. Cave for Dr. Fines.
Montpellier, Normal School	29.75	755.7	29.86	758.5	61.9	16.6	67	wnw.			4		8	s.				light rain	M. Galzin, Director.
Nancy	29.10	739.2	29.87	758.8	60.8	16.0	59	sw.			1	c				0	0		M. Larocque, Director.
Nantes, Observatory	29.78	756.5	29.95	760.6	58.6	14.8	78	wnw.			1		10			0	0	light fog	Dr. Fines, Director.
Perpignan, Observatory	29.72	754.8	29.83	757.6	60.8	16.0	97	w.	1.8	0.8			10		se.	1.717	43.6		M. Vausseaut, Director.
Pic-du-Midi, Summit	21.13	536.6			32.0	0.0		ne.			2		5		ne.	0.472	12.0	raining	M. Tailleu.
Privas, Normal School	28.85	732.8	29.89	759.3	64.0	17.8	47	s.			1		2	s.	se.	0	0	slightly cl'dy	M. Allnard.
Puy de Dôme Obs'y, Summit	25 08	636.9			46.0	7.8	88	w.			1		8		nw.	0	0		Lt. E. Decante, Director.
Rochefort, Naval Obs'y	29.87	758.8	29.91	759.6	65.8	18.8	75	calm			0		2			1.18	30.	¼ covered	M. Brotier, Director.
Roche-sur-Yon, N. School	29.69	754.1	29.90	759.5	61.5	16.4	87	ssw.			1		10		sw.	0	0	covered	M. Seger, Director.
Rodez, Normal School	27.70	703.5	29.82	757.5	55.8	13.2	81	nw.			1	10 ck		nw.		0.087	2.2	covered	M. Mouillot, Dir.
Rouen, Normal School	29.87	758 7	29.92	759.9	53.6	12	90	ese.			1		5			0	0	cloudy	M. Delaplanche, Dir.
St Lô	29.76	756.0	29.91	759.6	57.2	14	86	w.			1		5		w.	0	0	cloudy	M. Renou, Director.
Saint Maur, Observatory	29.73	755.1	29.89	759 3	59.4	15.2	72	ssw.			1		10		ssw.	0	0		M. Bailland, Director.
Toulouse, Observatory	29.22	742.3	29.95	760.6	56.5	13.6	95	nnw.			1		10	e.		0.102	2.6	covered	M. de Tastes.
Tours	29.71	754.5	29.88	759.0	61.2	16.2	79	n.			1		0			0	0	clear	Dr. A. Berigny, Director.
Versailles, Observatory	29.39	746.4	29.88	759 0	59.0	15.0	68	s.			1		8			0	0	covered	
Sub-series.																			
St. Martin du Hinx	29.79	756.6	29.94	760.4	64.2	17.9	92	se.	4.0	1.8			6 k		ne.	0.268	6.8		M. Cartier, Director.
German.																			
Ansbach	28.47	723.0	29.90	759.4	57.9	14.4	65	sw.			2		3	sw.		0	0		Prof. Jnedt.
Bamberg	29.08	738.7	29.92	760.0	57.7	14.3	70	calm			0		3 s			0	0		Prof. Dr. Hoh.
Berlin	29.73	755.1	29.87	758 7	60.1	15.6	66	s.			2		5			0	0		Dr. Lensch.
Breslau	29.44	747.7	29.97	761.2	57.4	14.1	63	sse.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.44	747.8	29.90	759.4	56.1	13.4	69	sw.			1		0			0	0		Albert Senz.
Cassel	29.18	741.1	29.89	759.2	54.7	12.6	82	s.			2		2	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.54	750.2	29.90	759.5	49.6	9.8	87	sw.			1		10			0	0		Physical Society.
Friedrichshafen	28.51	724.1	29.93	760.1	52.7	11.5	83	sw.			1		6	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	29.76	755.8	29.85	758.1	57.7	14.3	74	wnw.			2		3	sw.		0	0		E. Preller.
Kiel	29.82	757 4	29.84	757.8	54.5	12.5	86	w.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.46	748 3	29.88	758.9	58.3	14.6	74	ssw.			3		7			0	0		H. Leppig, Asst.
Magdeburg	29.66	753.3	29.84	758.0	59.9	15.5	72	sw.			1		4	wsw.		0	0		Weather Observatory.
Memel	30.06	763.4	30.10	764 6	52.7	11.5	92	se.			2		10 s						Issermann.
Munich	28.07	713 0	29.93	760.1	56.8	13.8	55	n.			1		3	nw.		0	0		Central Station.
Neufahrwasser	29.99	761.7	30.00	762.1	54.9	12.7	82	s.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.34	745.3	29.87	758.6	50.0	10.0	84	wsw.			1		3			0	0	foggy	Dicknether.
Stuttgart	28.87	733 3	29.74	755.5	60.8	16.0	56	ne.			1		3	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.81	757.1	29.84	757 8	57.7	14.3	83	se.			2		10 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.60	751.7	29.97	761.3	69.3	20.7		n.			2.0		6 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.78	756.5	29.83	757.7	89.8	32.1	60	wsw.	17.0	7.6			0			0	0	blue sky	
Deesa	29.34	745.2	29.80	757.0	94.1	34.5	36	e.	7.0	3.1			4	e.	e.	0	0	d. clouds	
Bombay	29.81	757.3	29.85	758.2	77.8	25.4	83	se.	29.0	13.0			10		ne.	0.01	0.3	overcast	
Poona, Yarrowda	28.00	711 1	29.83	757.8	83.3	28.5	52	e.	11.0	4.9			2			0.07	1.8	d. clouds	
Trichinopoly	29.55	750.5	29.83	757.6	83.1	28.4	82	e.	inap.	inap.			10			0.70	17.8	overcast	
Bellary	28.31	719.1	29.70	755.9	86.0	30.0	52	ne.	10.0	4.5			9			0	0	gloomy	
Belgaum	27.30	693 5	29.82	757.3	80 6	27.0	61	e.	7.0	3.1			9	e.		0.14	3.6	d. clouds	
Lahore	29.08	738.7	29.82	757.4	83.8	28.8	45	calm	0	0			0			0	0	blue sky	
Roorkee	28.93	734.9	29.82	757.5	83.8	28.8	40	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Agra	29.27	743.3	29.82	757.4	91.2	32.9	26	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.80	731.4	29.84	757.8	82.2	27.9	51	ese.	6.0	2.7			8		e.			thund'r st'm	
Jubbulpore	28.52	724.4	29.87	758.7	83.1	28.4	59	sse.	6.0	2.7			2	se		0	0	d. clouds	
Lucknow	29.42	747.3	29.80	756.8	83.2	28.4	45	calm	0	0			0			0	0	blue sky	
Allahabad	29.53	750.2	29.85	758.1	81.7	27.6	46	calm	0	0			0			0	0	blue sky	
Patna	29.65	753.0	29.83	757.7	85.2	29.6	60	calm	1.6	0.7			8			0	0	d. clouds	
Hazaribagh	27.85	707.4	29.85	758.2	80.0	26.7	35	nw.	4.9	2.2			2			0	0	d. clouds	
Cuttack	29.75	755.6	29.83	757.7	85.2	29.6	66	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.81	757.1	29.83	757.7	80.9	27.2	83	e.	0.5	0.2			9		e.	0.17	4.3	d. clouds	
Dhubri	29.74	755.4	29.86	758.4	81.0	27.2	82	calm	1.3	0.6			1			0.44	11.2	d. clouds	
Chittagong	29.80	757.0	29.90	759.3	77.6	25.3	95	calm	1.7	0.8			10			0.13	3.3	drizzling	
Sibsagar	29.56	750.9	29.90	759.5	80.0	26.7	85	ne.	2.0	0.9			6	w.	w.	1.45	36.8	d. clouds	
Jeypore	28.42	721.8	29.85	758.1	85.7	29.8	37	w.	2.2	1.0			7		w.	0	0	d. clouds	
Zanzibar	29.97	761.2			82.5	28.1	63	sw.	2.5	1.1			4		ssw.	0	0	d. clouds	
ITALIAN.																			
Udine	29.57	751.1	29.98	761.4	61.2	16.2	46	e.	1.3	0.6			5			0	0		Prof. Giovanni Clodig.
Milan	29.49	749.1	30.01	762.2	60.4	15.8	63	se.	3.1	1.4			8	sse.		0	0		Prof. G. V. Schiapparelli
Padua	29.87	758.8	29.98	761.6	58.8	14.9	62	nne	1.3	0.6			10	e.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.5	30.02	762.4	59.0	15.0	58	nw.	0.7	0.3			5	ne.		0	0		Prof. F. F. Denza.
Genoa	29.77	756.2	29.96	761.0	64.4	18.0	50	n.	1.3	0.6			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.09	713.5	30.00	761.9	56.7	13.7	62	n.			6		8			0	0		Prof. D. C. Bruno.
Pesaro	29.92	760.0	29.97	761.2	61.5	16.4	69	ne.	6.9	3.1			9	sw.		0	0		Prof. Luigi Guidi.
Florence	29.69	754.1	29.95	760.6	66.2	19.0	54	e.			2		5			0	0		Prof. Costantino Pittei
Leghorn	29.80	756.9	29.89	759.1	65.7	18.7	55	w.	1.8	0.8			4			0	0		Prof. P. Monte.
Rome	29.74	755.3	29.91	759.7	66.6	19.2	53	calm	0	0			8			0	0		Prof. P. Tacchini.
Lecce	29.71	754.7	29.97	761.1	68.0	20.0	52	se.	6.3	2.8			5	se.		0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.8	29.97	761.3	66.2	19.0	63	w.	3.1	1.4			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.63	752.6	29.82	757.4	64.8	18.2	75	se.			4		10			0	0		Prof. A. Pacinotti.
Palermo	29.65	753.1	29.90	759.4	69.6	20.9	48	ne.	5.6	2.5			2	wsw.		0	0		Prof. G. Caccintore.
Syracuse	29.89	759.3	29.94	760.4	69.6	20.9	56	wsw.	7.4	3.3			8	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.41	747.1	29.93	760.1	66.2	19.0	51	ese.	0	0			1	nnw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.13	765.4	30.16	766.3	59.2	15.1	98	calm			0	9c;ck	0	w.		0	0	cloudy	H. Hattori.
Awomori	30.13	765.3	30.16	766.0	59.0	15.0	90	calm	0	0		9 cs	1 ks			0	0	cloudy	K. Ogawa.
Hamamatsu	30.07	763.8	30.17	766.3	62.5	16.9	97	n.			2		10 n			0.752	19.1	raining	Sekigawa & Yamazaki.
Kagoshima	30.03	762.7	30.04	763.0	72.0	22.2	51	ne.			6		10 s			0	0	overcast	G. Miyanohaza.
Kanazawa	30.07	763.8	30.18	766.4	59.9	15.5	87	se.	5.1	2.2		9ck;cs	0			0	0	cloudy	S. Endo.
Kioto	29.99	761.7	30.16	766.1	60.6	15.9	95	calm	0	0		10 cs	0			0.293	7.4	cloudy	M. Tojima.
Kochi	30.10	764.5	30.12	765.0	66.0	18.9	94	e.	3.6	1.6			10 s		sw.	0	0	overcast	K. Kusunose.
Miasaka	30.06	763.5	30.09	764.2	69.6	20.9	58	nne.			2		10 s		e.	0.386	9.8	overcast	K. Masusaki
Miyako	30.08	764.1	30.19	766.9	62.3	16.8	87	s.	1.5	0.6			10 s			0.063	1.6	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.88	758.9	30.08	764.0	67.2	19.6	73	ne.	3.3	1.4		8cs;ck	0	sw.		0	0	cloudy	S. Takehayashi
Niigata	30.13	765.3	30.16	766.0	62.3	16.8	89	se.	2.3	1.0			10ks;s		sw.	0	0	cloudy	Satoo & Tomikawa.
Nobiru	30.15	765.8	30.17	766.2	64.9	18.3	88	sse.	10.5	4.6			10 ks		sse.	0.580	14.7	overcast	Yoslino & Midzushina.
Numazu	30.15	765.8	30.19	766.7	63.4	17.4	82	ene.			2		10 ks			0.988	25.1	cloudy	R. Kaneda.
Osaka	30.14	765.6	30.16	766.0	61.6	16.4	91	ne.	5.7	2.5			10 cs;s			0.420	10.7	cloudy	H. Omura.
Sakai	30.16	766.1	30.17	766.3	68.3	20.2	67	nne.			2	7 cs	3 ks	sw.	nne.	0	0	fair	Yamawchi & Sakamoto.
Shimonoseki	29.99	761.7	30.13	765.4	68.2	20.1	67	ne.			2		9 s		ssw.	0	0	cloudy	S. Sakaro.
Tokei Obs'y, Yeddo	30.12	765.0	30.19	766.9	62.0	16.7	96	nnw.	7.7	3.4			10 n			1.030	26.2	light rain	The Staff.
Wakayama	30.08	764.1	30.13	765.4	62.1	16.7	92	calm	0	0		10 cs	0			0.094	2.4	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	74.1	23.4	50	ese.	19.0	8.5		0	4k;ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.01	762.2	57.6	14.2	92	nnw.	0.9	0.4			10ck;s		ne.	0.008	0.2	overcast	Prof. M. Leal.
Mazatlan	29.05	753.0	29.86	759.5	76.0	24.4	86	ne.	1.6	0.8		7 cs	1 s	ne.		0	0	cloudy	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.90	759.4	29.90	759.4	60.1	15.6		ssw.			2					0	0		
Groningen	29.80	757.0	29.86	758.4	54.1	12.3		nnw.			1					0	0		
Helder	29.86	758.5	29.86	758.5	55.6	13.1		ssw.			2					0	0		
Hellevoetsluis	29.89	759.2	29.89	759.2	61.0	16.1	71	w.			1					0	0	lightly cl'dy	H. van der Brink.
Utrecht	29.85	758.2	29.90	759.4	59.9	15.5	64	ese.			2		2			0	0		
Sub-series.																			
Batavia, Java	29.91	759.8			76.8	24.9	87	se.	0.5	0.2			8			0.244	6.2		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.68	753.8	29.74	755.4	48.2	9.0	73	s.	18	8			10			0.126	3.2		
Brono	29.58	751.2	29.61	752.2	45.9	7.7	62	wsw.			4		3			0.177	4.5		
Christiania	29.65	753.2	29.80	757.0	43.7	6.5	87	se.	0	0			10			0	0	light fog	
Gjæsvær	29.70	754.3	29.72	754.9	31.6	— 0.2		calm			0		2						
Lodingen	29.51	749.6	29.56	750.8	38.3	3.5	77	e.			1		10			0.488	12.4		
PORTUGUESE.																			
Angra, Azores					69.3	20.7	82	wsw.	6.3	2.8			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.12	765.1	30.21	767.3	71.2	21.8	64	se.	9.4	4.2			7		n.	0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.78	756.3	30.11	764.7	65.3	18.5	63	nw.	11.9	5.3			3			0	0		The Staff.
Ponta Delgada, Azores	30.05	763.3	30.12	765.1	71.2	21.8	67	ssw.	12.5	5.6			3			0	0		
Saint Paul de Loando	29.74	755.4	29.94	760.5	76.1	24.5		w.	1.8	0.8			0			0	0		
San Salvador, Congo	28.14	714.8	29.99	761.7	74.3	23.5	77	sw.			1		10			0	0		
Serra da Estrella	25.32	643.0	30.09	764.2	45.0	7.2	94	wnw.	11.9	5.3			6			1.299	33.0		
RUSSIAN.																			
Akmolinski	28.82	732.0	29.91	759.6	46.4	8.0	38	wsw.	11	5		1 cs	0			0	0		Major K. Lasarew.
Archangel	29.69	754.2	29.71	754.7	33.1	0.6	96	wsw.	18	8			10			0.177	4.5	snowing	Capt. Sseliwerstow
Ashuruda	30.22	767.5	30.12	765.1	78.8	26.0	72	nw.	7	3		0	1 k			0	0		
Astrakhan	30.27	768.8	30.20	767.0	66.4	19.1	46	w.	2	1		0	1 s			0	0	light clouds	Capt. Wisganow.
Baku	30.15	765.7	30.10	764.5	73.2	22.9	74	ssw.	18	8		2 cs	0			0	0		
Barnaul	29.62	752.3	30.13	765.4	40.6	4.8	61	sw.	9	4			9			blank	blank		Meteorological Obs'y
Bieloserska	29.55	750.5	30.02	762.6	40.8	4.9	68	wsw.	13	6		0	7 ks			0.008	0.2		
Dorpat	29.92	759.9	30.17	766.2	49.3	9.6	62	s.	9	4		10 c	0					snowing	Observatory. Meteorological Obs'y.
Ekaterinburg	28.45	722.6	29.43	747.4	34.2	1.2	77	wnw.	22	10			10 n			0	0		
Elissawetgrad	29.80	756.8	30.25	768.3	56.8	13.8	69	ene.	7	3			10 kn						
Irkutsk	28.09?	713.4?	29.67?	753.5?	63.1	17.3	41	e.			2		2			0.020	0.5	hazy	
Kasalinsk																			Observatory.
Kasan	29.70	754.3	29.97	761.3	42.1	5.6	49	wnw.	2	1			10			blank	blank		
Kem	29.80	756.9	29.85	758.2	31.5	— 0.3	78	w.	9	4		0	4 k			0	0		
Kertch	30.03	762.7	30.05	763.3	60.4	15.8	67	ene.	9	4		4 cs	0			0	0		Lagorio & Sastyrea.
Kieff	29.57	751.0	30.20	767.1	56.7	13.7	79	sse.	2	1			10 ks			0	0		Observatory.
Koslov	29.71	754.5	30.22	767.5	50.4	10.2	52	wnw.	7	3		0	0			0	0		
Libau	30.05	763.2	30.07	763.8	52.5	11.4	86	se.	9	4			10			0	0		E. Quass.
Lugan	29.95	760.8	30.15	765.9	61.3	16.3	59	ene.	9	4			9			0	0		Meteorological Obs'y.
Moscow	29.73	755.1	30.21	767.4	48.4	9.1	49	nnw.	2	1		0	0			0.028	0.7		Meteorological Obs'y
Nikolaiev	30.10	764.6	30.17	766.4	57.9	14.4	69	ne.	13	6			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.68	753.9	29.77	756.1	45.7	7.6	68	calm	0	0		0	0						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	30.06	763.4	30.20	767.0	60 3	15.7	61	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.88	758.9	30.22	767.6	73.0	22.8	24	ne.	1.1	0.5	.....	0	0	.....	.....	0	0	.....	
Petrozavodsk	29.74	755.4	29.94	760.5	41.7	5.4	60	nw.	34	15	.....	0	1 s	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.69	754.2	30.19	766.9	53.6	12.0	90	se.	9	4	.....	.....	10 s	.....	.....	0	0	.....	
Poti	29.95	760.7	29.98	761.5	81.1	27.3	81	e.	4	2	.....	0	2 k	.....	.....	0	0	.....	
St. Petersburg	30.09	764.2	30.11	764.8	50.0	10.0	52	w.	9	4	.....	1 cs	0	.....	.....	0	0	light clouds	Central Physical Obs'y.
Samarkand	27.74	704.7	30.16	766.0	69.8	21.0	31	se.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.53	750.0	30.20	767.0	45.9	7.7	58	calm	0	0	.....	0	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.80	756.8	30.00	762.1	68.9	20.5	53	nw.	4	2	.....	3 cs	0	.....	.....	0.264	6.7	.....	
Staroi Bykhov	29.67	753.5	30.22	767.5	58.5	14.7	52	ese.	7	3	.....	0	2 k	.....	.....	0	0	light clouds	
Tashkend Laboratory	28.51	724.1	30.13	765.2	73.2	22.9	40	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.75	730.3	30.13	765.3	71.4	21.9	61	se.	2	1	.....	.....	9 ks	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.65	702 2	30.14	765.6	56.1	13.4	56	calm	0	0	.....	1 cs	0	.....	.....	0	0	.....	
Viatka	29.23	742.4	29.88	759.0	29.1	— 1.6	84	wnw.	9	4	.....	.....	10	.....	.....	0.047	1.2	.....	
Warsaw	29.66	753.3	30.08	764.1	52.9	11.6	85	se.	9	4	.....	.....	10 k	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.74	755.4	30.04	762.9	33.8	1.0	86	w.	4	2	.....	.....	8	.....	.....	0.106	2.7	raining.	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.67	753.6	29.77	756.2	66.9	19.4	81	wnw.	8.7	3.9	.....	0	7	.....	.....	0.661	16.8	.....	Antonio Molins.
Bilbao, Met. Obs'y	29.94	760.5	30.00	762.0	65.1	18.4	78	nw.	2.2	1.0	.....	2	6	se.	.....	0.315	8.0	almost cov.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.05	687.1	30.02	762.4	55.8	13.2	71	n.	2.5	1.1	.....	.....	10	.....	.....	0.134	3.4	covered	Domingo Martin.
Madrid, Royal Obs'y	27.74	704.6	29.94	760.4	63.1	17.3	61	w.	12.8	5.7	.....	0	7	.....	.....	0.291	7.4	very cloudy	The Staff.
Murcia, Met. Obs'y	29.75	755.7	29.88	758.9	72.9	22.7	63	nnw.	3.4	1.5	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.24	742.7	30.00	762.0	56.3	13.5	89	se.	7.2	3.2	.....	10 n	10 k	sw.	s.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.14	740.2	30.03	762.8	60.4	15.8	76	n.	3.8	1.7	.....	.....	10	.....	.....	.....	.....	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.89	759.3	29.96	761.0	74.3	23.5	85	s.	0.4	0.2	.....	3 ck	5 sk	n.	ne.	inap.	inap.	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.2	29.98	761.6	79.8	26.6	79	ese.	8.8	3.9	.....	0	2 ks	.....	ene.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	765.0	64.2	17.9	81	wnw.	12.2	5.5	.....	0	5	.....	wnw.	0.05	1.2	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.92	760.0	30.01	762.3	78.4	25.8	89	calm	0	0	.....	.....	10 kn	.....	sw.	0.591	15.0	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.77	756.1	29.81	757.1	35.6	2.0	85	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
Umea	29.76	755.9	29.81	757.2	39.2	4.0	87	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Hernosand	29.80	756.8	29.85	758.1	44.6	7.0	66	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	29.76	755.8	29.93	760.3	52.2	11.2	61	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	
Wisby	29.93	760.2	29.99	761.7	51.4	10.8	86	s.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.79	756.6	29.87	758 8	49.1	9.5	70	ssw.	11.2	5.0	.....	.....	10	w.	sw.	0.189	4.8	.....	H.H. Hildebrandesson
Swiss.																			
Geneva	28.52	724.3	29.94	760.4	54.9	12.7	77	n.	.....	.....	1	.....	8	.....	.....	0	0	foggy	The Observatory.
Turkish.																			
Constantinople	.....	.....	29.92	760.0	63.0	20.0	68	n.	7	3.0	.....	.....	5	.....	sw	0	0	.....	The Observatory.
Valona	.....	.....	30.04?	763.1?	68.4	20.2	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.02	762.4	75.0	23.9	68	sw.	.....	.....	1	.....	8 n	.....	sw.	0.070	1.8	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.79	680.5	.....	.....	65	18.3	70	calm	.....	.....	0	5 c	3 n	e.	sw.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.07	763.8	30.15	765.8	60	15.6	70	s.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.60	751.8	30.27	768.8	39	3.9	100	sw.	2	0.9	.....	5 c	fg.	w.	.....	0.04	1.0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	29.91	759.7	35.0	1.7	61	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.39	695.7	30.31	769.9	30	— 1.1	80	sw.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.12	765.0	64.0	17.8	78	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.08	764.0	30.09	764.3	60	15.6	100	n.	7	3.1	.....	.....	fg; 10n	.....	.....	0.05	1.3	light rain	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	58	14.4	83	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Louis Duane.
Baltimore, Maryland	30.10	764.5	30.15	765.8	57	13.9	80	n.	6	2.7	.....	0	fg	.....	.....	0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.08	764.0	30.10	764.5	61.5	16.4	87	ne.	8	3.6	.....	9 ck	fg	e.	.....	0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.76	730.5	30.38	771.6	31.0	— 0.6	81	calm	0	0	.....	4 c	4 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.42	696.5	30.32	770.1	29	— 1.7	77	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.48	723.4	30.36	771.1	34	1.1	94	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	59.0	15.0	96	calm	0	0	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	J. T. Elker.
Boise City, Idaho	27.43	696.7	30.29	769.4	30	— 1.1	88	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.10	764.5	59.0	15.0	90	sw.	3	1.3	.....	1 c	1 s; fg	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.98	761.5	73.0	22.8	97	calm	0	0	.....	0	4 k	.....	s.	0	0	fair	John McGlone.
Buffalo, New York	29.49	749.0	30.25	768.3	50.4	10.2	94	n.	4	1.8	.....	.....	10 n	.....	n.	inap.	inap.	light rain	Wm. Finn.
Buford, Fort, Dakota	28.23	717.0	30.33	770.4	33.1	0.6	100	w.	1	0.4	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	A. Schneider.
Cairo, Illinois	29.70	754.4	30.10	764.5	65.6	18.7	91	ne.	4	1.8	.....	5 ck	4 s	w.	.....	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	30.07	763.8	30.27	768.8	48.7	9.3	91	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	65.0	18.3	100	n.	16	7.2	.....	.....	fg.	.....	.....	0.37	9.4	dense fog	A. K. Alderson.
Cape May, New Jersey	30.05	763.5	30.09	764.3	61.3	16.3	100	ne.	10	4.5	.....	.....	10 n	.....	.....	inap.	inap.	light rain	Wm. Bolton.
Cape Mendocino, California	29.25	742.9	29.94	760.5	48.5	9.2	100	nw	22	9.8	.....	.....	fg.	.....	nw.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	68.0	20.0	78	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.98	761.5	64.0	17.8	84	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.09	764.3	58.0	14.4	90	n.	5	2.2	.....	0	fg.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.12	765.0	59.0	15.0	100	calm	0	0	.....	.....	fg	.....	.....	0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	30.22	767.6	23.4	— 4.8	80	e.	1	0.4	.....	.....	10 s	.....	.....	0.33	8.4	cloudy	E. McGovern.
Chicago, Illinois	29.47	748.5	30.18	766 6	57.0	13.9	90	se.	4	1.8	.....	5 ck	2 ks	sw.	sw.	0	0	fair	Wm. Norrington.
Chincoteague, Virginia	30.05	763 3	30.07	763.8	61	16.1	100	ne.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.50	749.3	30.16	766.1	60.5	15.8	87	ne.	4	1.8	.....	2 c	0	.....	.....	inap.	inap.	clear	L. Dunne.
Cleveland, Ohio	29.48	748.8	30.22	767.6	56.7	13.7	76	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.32	744.7	30.18	766.6	57	13.9	80	n.	8	3.6	.....	.....	10 s	.....	w.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	30.05	763.3	61.3	16.3	93	ne.	3	1.3	.....	.....	10 s	.....	s.	1.06	26.9	cloudy	C. E. King.
Custer, Fort, M. T	26.02	660.9	30.26	768.0	26	— 3.3	67	w.	1	0.4	.....	0	6 s	.....	w.	0	0	fair	T. Gibson.
Davenport, Iowa	29.51	749.5	30.17	766 3	50	10.0	93	ne.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	30.05	763 3	54	12.2	72	se.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.54	724.9	30.33	770.4	32.0	0.0	81	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.57	649.5	30.25	768 3	27	— 2.8	67	nw.	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	F. Des Willson.
Delaware Breakwater, Del.	30.07	763.8	30.09	764.3	61	16.1	100	ne.	19	8.5	.....	.....	10n; fg	.....	.....	0.02	0.5	light rain	F. W. Mixer.
Denver, Colorado	24.93	633.2	30.19	766.8	30.5	— 0.8	87	n.	2	0.9	.....	.....	10 s	.....	.....	0.98	24.9	cloudy	F. M. Neal.
Des Moines, Iowa	29.32	744.7	30.24	768.1	47	8.3	68	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.24	768.1	52.0	11.1	86	n.	8	3 6	.....	10 k	0	n.	.....	0.02	0.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.54	699.5	30.17	766.3	43	6.1	76	n.	28	12.5	.....	.....	10 s	.....	n.	0	0	cloudy.	J. H. Bryce.
Dubuque, Iowa	29.48	748 8	30.20	767.1	52	11.1	84	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.47	748.5	30.23	767.8	40.6	4.8	77	sw.	8	3.6	.....	.....	10 s	.....	sw.	0.53	13.5	cloudy	N. B. Conger.
Eastport, Maine	30.03	762.7	30.10	764.5	53.0	11.7	96	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	30.11	764.8	50	10.0	86	n.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.26	667.0	30.00	762.0	49.2	9.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.24	768.1	56	13.3	86	ne.	1	0.4	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.52	749.8	30.19	766.8	52.0	11.1	90	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.96	761.0	30.00	762.0	79	26.1	79	sw.	1	0.4	.....	0	8 ks	.....	s.	0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.54	750.3	30.21	767.3	47.5	8.6	96	e.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog.	Wm. H. Fallon.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.20	640.1	29.90	759.4	51.2	10.7	45	ne.	2	0.9	...	0	0	...	...	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.93	760.2	29.94	760.5	66.0	18.9	100	ne.	20	8.9	...	...	10 k	...	ne.	0.02	0.5	cloudy	R. M. Crawford
Helena, Montana	25.97	659.6	30.27	768.8	27	−2.8	77	nw.	1	0.4	...	...	10 s	...	...	0	0	cloudy	I. H. Jones.
Huron, Dakota	28.92	734.6	30.35	770.9	40.2	4.6	76	nw.	3	1.3	...	...	10 s	...	...	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.33	745.0	30.13	765.3	58.8	14.9	81	calm	0	0	...	3 cs	0	w.	...	0.03	0.8	clear	C. F. R. Wappenhaus.
Indianola, Texas	29.97	761.2	30.00	762.0	77.2	25.1	90	sw.	6	2.7	...	2 k	3 ks	sw.	...	0	0	fair	I. A. Reed.
Jacksonville Florida	29.95	760.7	29.99	761.7	62.0	16.7	87	ne.	7	3.1	...	0	0	...	...	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.47	748.5	30.14	765.5	54.0	12.2	93	ne.	6	2.7	...	10 k	0	...	...	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.92	760.0	29.94	760.5	78	25.6	82	calm	0	0	...	2 k	1 ks	ne.	...	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	29.98	761.5	30.00	762.0	66.1	18.9	100	ne.	32	14.3	...	...	fg.	...	...	0	0	dense fog	Wesley Blake.
Knoxville, Tennessee	29.10	739.1	30.14	765.5	59.6	15.3	100	e	5	2.2	...	...	fg.	...	...	0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.25	768.3	47	8.3	68	nw.	8	3.6	...	...	10 s	...	nw.	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.25	742.9	30.15	765.8	52.5	11.4	72	n.	11	4.9	...	...	10 s	...	n.	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.50	749.3	30.36	771.1	31.5	−0.3	82	calm	0	0	...	0	0	...	...	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.70	754.4	30.02	762.5	69.0	20.6	93	calm	0	0	...	3 c	4 s	...	...	0	0	fair	W. U. Simons.
Los Angeles, California	29.57	751.1	29.97	761.2	55	12.8	86	ne.	3	1.3	...	...	10 s	...	...	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.54	750.3	30.11	764.8	62	16.7	93	nw.	4	1.8	...	0	9 s	...	...	inap.	inap.	cloudy	L. M Dey.
Lynchburg, Virginia	29.42	747.3	30.11	764.8	53.0	11.7	90	calm	0	0	...	...	fg.	...	...	0	0	dense fog	Jno. Healy.
Mackinaw City, Michigan	29.57	751.1	30.24	768.1	45.0	7.2	76	s.	12	5.4	...	2 c	2 s	...	s.	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	29.93	760.2	29.94	760.5	66.0	18.9	100	n.	24	10.7	...	...	10 n	...	ne.	inap.	inap.	light rain	William Daly.
Maginnis, Fort, Montana	25.67	652.0	30.21	767.3	16	−8.9	70	s.	3	1.3	...	...	10 s	...	s.	0	0	cloudy	F. Burke.
Marquette, Michigan	29.41	747.0	30.15	765.8	49.0	9.4	77	s.	7	3.1	...	...	10 s	...	...	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.05	763.3	70	21.1	90	ne.	3	1.3	...	5 cs	fg.	n.	...	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.46	748.3	30.22	767.6	45.0	7.2	100	n.	4	1.8	...	...	fg.	...	...	0	0	dense fog	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	60.2	15.7	81	n.	6	2.7	...	0	hz.	...	...	0	0	clear	H. U. Jones.
Montgomery, Alabama	29.86	758.4	30.09	764.3	60	15.6	81	ne.	1	0.4	...	0	fg.	...	...	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.34	745.2	30.36	771.1	28	−2.2	88	nw.	8	3.6	...	...	10 s	...	nw.	0.01	0.3	cloudy	H. Bessant.
Mt. Washington, N. H.	24.00	609.6	30.34	770.6	48.0	8.9	100	nw.	32	14.3	...	...	fg.	...	nw.	0.07	1.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.50	749.3	30.08	764.0	65.0	18.3	93	e.	1	0.4	...	...	fg.	...	...	inap.	inap.	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	30.01	762.2	30.13	765.3	51	10.6	86	nw.	2	0 9	...	0	fg.	...	...	0	0	clear	J. H. Sherman.
New London, Connecticut	30.09	764.3	30.14	765.5	60.2	15.7	87	calm	0	0	...	2 k	0	nw.	...	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	72.0	22.2	83	calm	0	0	...	4 c	fg.	...	...	0	0	fair	M. Herman.
New York, New York	29.96	761.0	30.14	765.5	57.8	14.3	82	calm	0	0	...	...	fg.	...	...	0	0	dense fog	H. J. Penrod.
Norfolk, Virginia	30.03	762.7	30.06	763.5	65.5	18.6	93	n.	11	4.9	...	...	10s;fg	...	...	0.01	0.3	cloudy	Wm. Davis.
North Platte, Nebraska	27.38	695.4	30.34	770.6	34.6	1.4	87	ne.	5	2.2	...	...	10 n	...	...	0.25	6.3	light snow	E. F. Brady.
Olympia, Washington T'y	30.30	769.6	30.34	770.6	46.0	7.8	89	calm	0	0	...	0	0	...	...	0	0	clear	J. Dascomb.
Omaha, Nebraska	29.09	738.9	30.29	769.4	54.3	12.4	76	n.	7	3.1	...	8 ck	0	...	...	0	0	cloudy	A. Pollak
Oswego, New York	29.90	759.4	30.23	767.8	52.5	11.4	83	ne.	9	4.0	...	...	10 s	...	ne.	inap.	inap.	cloudy	J. G. Linsley
Palestine, Texas	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.06	763.5	60.4	15.8	78	nw.	5	2.2	...	0	hz.	...	...	0	0	clear	M. McGauran.
Philadelphia, Pa	30.04	763.0	30.14	765.5	57.5	14.2	83	n.	1	0.4	...	0	hz.	...	...	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.76	451.1	30.04	763.0	12	−11.1	87	w.	6	2.7	...	...	fg.	...	w.	0.01	0.3	dense fog	H. Hall.
Pittsburg, Pennsylvania	29.38	746.2	30.20	767.1	61.0	16.1	84	nw.	3	1.3	...	...	10 s	...	n.	0.03	0.8	cloudy	G. C Schaeffer.
Port Huron, Michigan	29.54	750.3	30.23	767.8	49.0	8.9	93	e.	2	0.9	...	3 ck	3 s	w.	...	0.02	0.5	fair	M. H. Perry
Portland, Maine	30.04	763.0	30.09	764.3	54	12.2	86	n	2	0.9	...	10 cs	0	n.	...	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.16	766.1	30.23	767.8	47.0	8.3	93	n.	6	2.7	...	0	0	...	...	0.02	0.5	clear	M. L. Hearne.
Portsmouth, N. C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.94	760.5	37.5	3.1	63	sw.	2	0.9	...	0	0	...	...	0	0	clear	N. D. Lane.
Provincetown, Mass	30.07	763.8	30.10	764.5	58.5	14.7	100	nw.	4	1.8	...	...	fg.	...	...	0.03	0.8	dense fog	C. N. Kitchel.
Red Bluff, California	29.62	752.3	29.98	761.5	62	16.7	37	n.	10	4.5	...	0	0	...	...	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.78	756.4	30.02	762.5	73.0	22.8	91	se	5	2.2	...	0	0	...	...	0	0	clear	Fred. Belford.
Rochester, N. Y	29.58	751.3	30.25	768.3	50.5	10.3	88	ne.	8	3.6	...	...	10 s	...	...	0	0	cloudy	
Roseburg, Oregon	29.61	752.1	30.17	766.3	52	11.1	86	e.	4	1.8	...	...	10 s	...	...	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.81	757.2	29.89	759.2	56.3	13.5	64	n.	10	4.5	...	0	0	...	...	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.48	748.8	30.10	764.5	62.0	16.7	90	e.	5	2.2	...	...	10 s	...	s.	inap.	inap.	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.69	754.1	29.72	754.9	35	1.7	94	e.	4	1.8	...	2 cs	6 s	...	e	0.03	0.8	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.40	746.7	30.26	768.6	43.0	6.1	68	w.	8	3.6	...	...	10 s	...	w.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.41	747.0	30.31	769.9	29	−1.7	100	nw.	1	0.4	...	0	0	...	...	0.97	24.6	clear	C. B. Dilley
Salt Lake City, Utah	25 77	654.5	30.17	766.3	40.5	4.7	40	calm	0	c	...	0	0	...	...	0	0	clear	J. Craig.
San Diego, California	29.87	758.7	29.94	760.5	58.5	14.7	86	nw.	2	0.9	...	3 k	0	sw.	...	0	0	clear	F. R. Day.
Sanford, Florida	29.89	759.2	29.94	760.5	64.5	18.1	92	nw.	7	3.1	...	0	0	...	...	inap.	inap.	clear	J. B. Marbury.
Sandusky, Ohio	29.55	750.6	30.24	768.1	58	14.4	74	e.	8	3.6	...	...	10 s	...	e.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.10	764.5	30.13	765.3	57.0	13.9	93	s.	2	0.9	...	...	fg.	...	...	0	0	dense fog	B. A. Blundon
San Francisco, California	29.81	757.2	29.88	758.9	58.5	14.7	90	nw	1	0.4	...	0	fg.	...	...	0	0	clear	N. Gorom.
Savannah, Georgia	29.92	760.0	30.01	762.2	59.5	15.3	81	n.	7	3.1	...	0	0	...	...	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.55	674.4	30.25	768.3	22	−5.6	87	w.	8	3.6	...	9 k	0	nw.	...	0	0	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.76	755.9	30.00	762.0	71.7	22.1	82	calm	0	0	...	3 c	3 s	sw.	s.	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W M. Mattingly
Sitka, Alaska	30.06	763.5	30.13	765.3	51	10.6	90	s.	14	6.3	...	...	10 n	...	s.	2.12	53.8	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.58	751.3	30.06	763.5	67.0	19.4	100	calm	0	0	...	...	10 n	...	...	1.49	37.8	heavy rain	J. B. Campbell
Smithville North Carolina	29.90	759.4	29.94	760.5	65.2	18.4	90	n.	15	6.7	...	...	10 s	...	n.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.23	717.0	30.31	769.9	27.3	−2.6	36	calm	0	0	...	0	0	...	...	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.45	748.0	30.14	765.5	55	12.8	83	ne.	5	2.2	...	5 cs	4 k	w.	e.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.01	686.0	30.04	763.0	62.0	16.7	93	se.	16	7.2	...	0	0	...	...	inap.	inap.	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	30.21	767.3	...	...	45.0	7.2	88	e.	7	3.1	...	0	1 s	...	e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona	...	...	...	...	39	3.9	42	calm	...	...	0	0	0	...	...	0	0	clear	R. C. Lord.
Toledo, Ohio	29.52	749.8	30.22	767.6	54	12.2	86	e.	11	4.9	...	...	10 s	...	...	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.49	749.0	29.52	749.8	41	5.0	74	nw.	24	10.7	...	...	10 s	...	...	0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	L. B. Montgomery.
Vicksburg, Mississippi	29.80	756 9	30.06	763.5	70.3	21.3	80	se.	5	2.2	...	1 c	hz.	n.	...	0	0	clear	James Kenealy.
Washakie, Fort, Wyoming	...	...	...	...	...	...	86	...	...	...	...	...	...	...	...	...	...	...	T. M. Ambler.
Washington, D. C.	30.03	762.7	30.15	765.8	53.2	11.8	...	calm	0	0	...	0	fg.	...	...	0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.27	667.2	30.20	767.1	34	1.1	94	n	10	4.5	...	...	10 s	...	...	inap.	inap.	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	29.93	760.2	29.99	761.7	65.0	18.3	90	n.	8	3.6	...	...	10 s	...	...	0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	29.00	736.6	30.33	770.4	38.3	3.5	96	nw.	2	0.9	...	...	10 s	...	...	0.14	3.6	cloudy	E. H. Thompson.
Yuma, Arizona	29.68	753.9	29.83	757.7	58.6	14.8	72	ne.	1	0.4	...	0	0	...	...	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	...	...	...	...	76	24.4	...	nw.	...	...	2	2 c	6 ks	...	ne.	0.16	4.1	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.05	560.1	...	...	55.8	13.2	67	calm	0	0	...	6ck;cs	2 ks	n.	n.	0.012	0.3	...	Joaquin Gomez.
Kingston, Jamaica, W. I.	...	...	29.95	760.7	75.6	24.2	94	n.	1	0.4	...	10 cs	0	w.	...	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	82	se.	...	...	2	4 c	5 k	e.	...	0.050	1.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	73	22.8	89	calm	...	...	0	...	fg.	...	...	0.74	18.8	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	...	...	...	...	75	23.9	90	se.	...	...	1	10 ck	...	se.	...	1.36	34.5	cloudy	Earl Flint.
York Factory, B. A.	30.01	762.2	30.08	764.0	29.5	−1.4	94	w.	8	3.6	...	3 k	2 s	w.	w.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 40° 48′, E. 24° 43′	30.05	763.3	64	17.8	62	nne.			1		10	nne.						raining.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	77	25.0	91	ese.			4		10	se.						squally.
H. M. S. Flamingo, N. 46° 31′, W. 53° 17′	30.03	762.7	56	13.3	94	sw.			3							4	wsw.	foggy.
H. M. S Himalaya, N. 45° 51′, W 7° 53′	30.02	762.5	67	16.1	88	n.			3		6	nnw.				1	nne.	d. clouds.
H. M. S. Iris, Alexandria, Egypt	29.95	760.7	75	23.9	86	wsw.			1		5	wsw.						d. clouds.
H. M. S. Opal, Fernando Po, W. Africa	29.93	760.2	80	26.7	78	ene.			1		3	ssw.						d. clouds.
H. P. M. S. Douro, St. Thomas, W.I	29.91	759.8	81.5	27.5	80	s.			2		6		sw.			2	sw.	d. clouds.
U. S. Navy Yard, Portsmouth, N.H.*	30.04	763.0	50	10.0	93	calm	0	0			2		w.	0	0			fair.
U. S. S. Alliance, Portsmouth, N.H	30.12	765.0	57	13.9	81	w.			2		0			0	0	long	wsw.	foggy.
U. S. S. Jamestown, N. 24° 05′, W. 58° 38′	30.14	765.5	82	27.8	87	ese.			3		5		e.			long	sw.	fair
U. S. S. Kearsarge, Gibraltar, Mediterranean	30.08	764.0	67	19.4	69	nw.			3		8		nw.					cloudy.
U. S. S. Lancaster, Gibraltar, Mediterranean	30.09	764.3	66	18.9	89	nw.			4		5		nw.			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I			61	16.1	94	nw.			1		10		calm			sm'h		cloudy.
U. S. S. Powhatan, Halifax, N.S	30.12	765.0	62	16.7	100	calm			0		10							foggy.
U. S. S. Quinnebaug, Leghorn, Italy	30.00	762.0	66	18.9	64	sw.			1		0							clear.
U. S. S. Saratoga, Stony Point, N. Y	30.14	765.5	52	11.1	?	sw.			1		2		sw.	0	0	sm'h		fair.
U. S. S. Swatara, N. 41° 07′, W. 69° 14′	30.17	766.3	58	14.4	94	se.			1		1		se.	0	0	long	sse.	foggy.
U. S. S. Vandalia, Gardiner's Bay, Long Island †	30.12	765.0	63	17.2	94	e.			1		8		e.					fair.
S. S. British Crown, N. 50° 29′, W. 36° 58′			59	15.0		sw.			6		10			8 h'r	8 h'r	r'gh	sw.	rainy.
S. S. British Prince, N. 46° 11′ W. 53° 24′ *†	30.00	762.0	58	14.4		wsw.			3		fg.			0	0			d. clouds.
S. S. Ohio, N. 51° 23′, W. 22° 11′			54	12.2	80	s.			1		7		s.	0	0	sm'h	s.	cloudy.
S. S. Nova Scotian, N. 51° 45′, W. 13° 45′			53	11.7		n.			4		10		nnw.			sli't	n.	cloudy.
S. S. Prussian, Boston, Mass			49	9.4														foggy.
S. S. Scandinavian, N. 50° 26′, W. 37° 20′	29.81	757.2	54	12.2		wsw.			6		10		wsw.	6½ hr	6½ hr	mod.	wsw.	drizzling.
S. S. Sardinian, N. 53° 26′ W. 51° 40′	29.62	752.3	40	4.4		w.			6		0			0	0	mod.	w.	clear.
S. S. Andes, Kingston, Jamaica. W I *†	29.92	760.0							2		8		e.					cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I			87	30.6	100	calm			0		2		calm	1 h'r	1 h'r	sm'h		fine.
S. S. Avilla, N. 35° 10′, W. 74° 06′ *†	29.98	761.5	77	25.0		ne			6		5		ne.	rain	rain		ne.	
S. S. Assyria, N. 40° 30′. W. 71° 08′	30.09	764.3	60	15.6	?	ne.			3		fg.			0	0	h'vy	e.	dense fog.
S. S. Dorian, N. 36° 07′, W. 80 10′	30.15	765.8	65	18.3		nw.			3		2			sh'rs	sh'rs	r'gh	w.	fine.
S. S. Furnessia, New York, N. Y†	30.18	766.6	67	19.4	89	ene.			1									light haze.
S. S. Carroll, Charlottetown, P.E.I			64	17.8	94	nw.			1		10		nw.	0	0			threatening.
S. S. Jerome, N. 30° 14′, W. 65° 35′ *	30.03	762.7	78	25.6		sse.			6		10		s.	1 h'r	1 h'r	mod.	sse.	gloomy.
S. S. Llandaff City, N. 47° 54′, W. 45° 32′ †	30.04	763.0	50	10.0		wsw.			5		10		wsw.	1 h'r	1 h'r	mod.	w.	hazy.
S. S. Gallia, N. 40° 28′, W. 68° 27′			75	23.9	100	calm			0		fg					mod.	e.	misty.
S. S. Pavonia, N. 47° 15′, W. 38° 26′ *	30.01	762.2	61	16.1	71	wsw.			6		9		sw.	0	0	mod	wsw.	overcast.
S. S. Scythia, N. 50° 56′, W. 14° 16′	30.09	764.3	59	15.0	88	nne.			1		4		nne.	0	0	sm'h		clear.
S. S. Samaria, N. 43° 18′ W. 52° 15′*	30.28	769.1	60	15.6		sww.			3		3		wsw.	0	0	sm'h		fair.
S. S. Canada, N. 49° 15′, W. 39° 15′	29.90	759.5	53.6	12		wsw.			6		10		wsw.	rain	rain	h'vy	wsw.	rainy.
S. S. Wisconsin, N. 42° 25′, W. 62° 05′*	30.11	764.8	62	16.7		sw.			2		fg			0	0	long	sse.	foggy.
S. S. Bohemia, Hamburg, Germany						w.			2		8		w.	0	0			cloudy.
S. S. Gellert, Hamburg, Germany			59	15.0	?	wsw.			2		4?		w	0	0			covered?
S. S. Lessing, N. 47° 29′ W. 44° 26′	29.93?	760.2?	56	13.3		sw.			7		9		sw.			r'gh	sw.	misty.
S. S. Rugia, N. 50° 35′, W. 26° 32′	29.90	759.4	54	12.2		sw.			4		8		e.	0	0	long	ene.	fair.
S. S. Silesia, New York, N. Y	30.12	765.0	53.5	11.9										0	0			hazy.
S. S. Westphalia, North Sea			56	13.3	94	sw.			2–3		10?		w.	0	0	sm'h		fair?
S. S. Nessmore, N. 45° 04′, W. 45° 16′	30.18	766.6	54	12.2	87	wsw.			3		6		wsw.	0	0	mod.	w.	cloudy.
S. S. Bulgarian, N. 53° 02′, W. 5° 11						nnw.			5		9		nnw.	1 h'r	1 h'r			
S. S. Hevelius, Liverpool, Eng †	29.94	760.5	54	12.2		nw.			4				nw.	7 h'r	7 h'r			cloudy.
S. S. Rosse, N. 43° 50′, W. 9° 00′*	30.09	764.3	62	16.7		wsw.			3		3		sw.	0	0	sm'h		clear.
S. S. Rio Grande, N. 29° 00′, W. 79° 46′†	29.93	760.2	82	27.8		n.			5		7		ne.	0	0	h'vy	var.	cloudy.
S. S. Lampassas, N. 28° 30′, W. 92° 30′*†	30.30	769.6	80	26.7		ese.			3		2		ese.	0	0	sm'h		clear.
S. S. Chalmette, New York, N. Y†	30.09	764.3	55	12.8		calm			0		10			0	0			foggy.
S. S. New York, N. 29° 45′, W. 79° 45′*†	29.94	760.5	80	26.7		n.			7		10		n.	0	0	h'vy	n.	cloudy.
S. S. Lone Star, N. 38° 26′, W. 74° 21′*†	30.02	762.5	63	17.2		ne.			3					4 h'r	4 h'r	h'vy	ene.	dense fog.
S. S. Alleghany, N. 41° 04′. W. 71° 30′ †	30.19	766.8	62	16.7		calm			0		8			0	0	long	e.	fair.
S. S. Archimede, New York. N. Y †	30.15	765.8	70	21.1		sw.			1		6		sw.	0	0			hazy.
S. S. City of Merida, N. 36° 55′, W. 74° 34′*†	30.06	763.5	72	22.2		ne.			5		10		ne.	0	0	h'vy	e.	cloudy.
S. S. Cienfuegos, N. 34° 09′, W. 74° 37′*	29.97	761.2	78	25.6		ne.			5		5?		e.	3 h'r	3 h'r	long	ene.	cloudy ?
S. S. Denmark, Gravesend, Eng†	29.93	760.2	60	15.6		calm			0		4		e.					smoky.
S. S. Egypt, Queenstown, Ireland	29.95	760.7	55	12.8		n.			4		2		n.	2 h'r	2 h'r	mod.	n.	clear.
S. S. Grecian, N. 52° 09′, W. 54° 17′	29.82	757.4	45	7.2	84	w.			5		0			½ h'r	½ h'r	sm'h		clear.
S. S. England, N. 42° 36′, W. 53° 22′	30.25	768.3				sw.			4		0			0	0	sm'h		clear.
S. S. Erin, London, Eng			61	16.1		w.			4		8		sw.	0	0			foggy.
S. S. Greece, N. 47° 23′ W. 31° 26′			59	15.0	94	w.			7		8		w.	3 h'r	3 h'r	mod.	w.	d. clouds.
S. S. Holland, N. 44° 35′, W. 43° 12′	30.21	767.3	63	17.2		w.			6		8		w.	0	0	mod	wnw.	cloudy.
S. S. Donau, N. 41° 40′ W. 65° 04′	30.19	766.8				s.			1							sm'h	s.	foggy.
S. S. Elbe, off South Foreland, Eng	29.92	759.9	58.1	14.5	89	s.			2		10		w.	0	0	sm'h	sw.	hazy.
S. S. Hohenstaufen, N. 56° 32′, W. 7° 05′			59.0	15.0		nnw.			4		7		nnw.	0	0	mod.	n.	fair.
S. S. Orinoco, Bermuda, Atlantic			78	25.6		sse.			1		10		sse.	2 h'r	2 h'r			raining.
S. S. Neckar, N. 50° 30′, W. 16° 50′	30.13	765.3	60.0	15.6	55	e.			2–3		5		sw.	rain	rain	sm'h	e.	fair.
S. S. Ohio, N. 37° 56′, W. 34° 09′	29.98	761.5				ne.			4		10		nne.	5 h'r	5 h'r	mod.	var.	raining.
S. S. Rhein, N. 45° 34′, W. 43° 58′	30.12	765.0				wsw			5		5?		sw.	0	0	cross	sw.	cloudy?
S. S. City of Augusta, N. 32° 21′, W. 78° 02′ †	30.04	763.0				ne			7		10		ne.			h'vy		cloudy.
S. S. Muriel, St. Thomas, W.I			83	28.3		ese.			3		5			h'vy	h'vy	sm'h		fair.
S. S. Rhynland, Antwerp, Belgium			58	14.4		calm			0		0			0	0			clear.
S. S. Pennland, N. 47° 07′, W. 44° 47′ †	30.08	764.0	53	11.7	93	sw.			6		10		sw.	0	0	mod.	se.	hazy.
S. S. Switzerland, N. 40° 19′ W. 71° 36′*†	30.16	766.1				n.			1		10			0	0	long	s.	dense fog.
S. S. Vaderland, N. 47° 00′, W. 44° 00′	30.08	764.0	55	12.8		w.			5		10		w.	1 h'r	1 h'r	mod.	wnw.	overcast.
S. S. Waesland, N. 50° 26′, W. 31° 28′			56	13.3		sw.			6		10		wsw.	1 h'r	1 h'r	mod.	n.	cloudy.
S. S. Leerdam, N. 49° 44′, W. 24° 36′*	29.97	761.2	59.0	15.0	82	ssw.			3		4		s.	0	0	2	sw.	fair.
S. S. Schiedam, N. 42° 34′, W. 60° 20′	30.17	766.3	66.2	19.0	84	s.			4		10			½ h'r	½ h'r	mod.	sse.	foggy.
S. S. Zaandam, N. 40° 18′ W. 70° 37′	30.16	766.1	65.5	18.6	92	ene.			3		10		e.	0	0	high	e.	dense fog.
S. S. Caracas, N. 38° 17′, W. 72° 51′ *†	30.10	764.5	68	20.0	100	ne.			4		fg			0	0	r'gh	ene.	foggy.
S. S. W. A. Scholten, New York, N. Y	30.17	766.3	57.2	14.0	89	n.			1		1		ne.	0	0			clear.
S. S. Valencia, Curacoa, W. I.*†	29.93	760.2	85	29.4	87	ene.			3		7		ene.	2 h'r	2 h'r			light rain.
S. S. State of Georgia, N. 53° 19′, W. 32° 12′	29.67	753.6	52	11.1		s.			7		10		sw.	20 h'r	20 h'r	mod.	sw.	rainy.
S. S. State of Indiana, N. 52° 04′, W. 37° 35′ *†	29.55	750.6	49	9.4		w.			5		9		w.	6 h'r	6 h'r	r'gh	w	raining.
S. S. Thingvalla, New York, N. Y †	30.23?	767.8?	63.7	17.6		nne.			3		1		nne.	0	0			clear.
S. S. Otranto, N. 47° 45′, W. 44° 25′	30.02	762.5	55	12.8		ssw.			6		10		sw.	0	0	long	sw.	hazy.
S. S. Romano, New York, N.Y			64	17.8		ne.			1		1		ne.					
S. S. Salerno, N. 49° 51′ W. 18° 52′ *†	30.16	766.1	62	16.7		e.			2		2		e.	0	0	sm'h	e.	clear.
S. S. Dominion, N. 54° 45′ W. 39° 06′ *†	29.52	749.8	47	8.3		wsw.			5		10		wsw.			mod.	wsw.	cloudy.
S. S. Quebec, Montreal, Canada	30.18	766.6	56	13.3		nne.			1		10		e.	2 h'r	2 h'r			overcast.
S. S. Texas, N. 55° 40′, W. 8° 39′			54	12.2	87	w.			3		9			0	0	sm'h		clear.
S. S. Lake Manitoba, Quebec, Quebec			56	13.3		se.			2									
S. S. Olbers, N. 33° 08′, W. 69° 03′	30.03	762.7	78	25.6	91	se.			5		7		se.	½ h'r	½ h'r	mod.	var.	fair.
S. S. Daniel Steinmann, N. 43° 02′ W. 63° 44′ †	30.16	766.1	61	16.1		ssw.			2		10			0	0	long	ese.	foggy.
S. S. Adriatic, N. 40° 52′, W. 66° 00′ *†	30.17	766.3	66	18.9		sw.			3				sw.			mod.	se.	foggy.
S. S. Celtic, N. 46° 07′, W. 38° 36′ †	30.12	765.0	63	17.2		wsw.			6		10		w.	0	0	mod.	w	overcast.
S. S. Iowa, N. 51° 22′, W. 9° 45′ †	30.03	762.7	57	13.9		n.			3		3		n.	0	0	sm'h		clear.
Bk. Arda, N. 24° 38′, W. 31° 29′						e.			1		2		se.	0	0	mod.	e.	clear.
Bk Alpheus Marshall, N. 2° 42′, W. 19° 40′ *†	29.93	760.2	79	26.1	91	se.			3		8		se.	0	0	mod.	sse.	cloudy.
Bk. Ariadne, N. 57° 39′, W. 18° 27′	29.99	761.7	46	7.8	92	s.			3		9		sw.	5 h'r	5 h'r	mod.	sw,	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Abbie Clifford, N. 25° 30′, W. 60° 39′†	30.11	764.8	83	28.3		se.			4		10		se.	0	0	mod.	var.	
Schr. Arthur Burton, Charleston, S. C.†	30.01	762.2				nne.			5		0			0	0	sm'h		clear.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.14	765.5	59	15.0		calm			0									clear.
S. S. Antonio Lopez, Cadiz, Spain *	30.10	764.5	65.5	18.6	78	w.			3		1			0	0			clear.
Schr. Adda Doane, N. 20° 10′, W. 55° 01′*†	30.10	764.5				e.			4		2		ese.	1 h'r	1 h'r	short	se.	clear.
Bg. Belle of the Bay, N. 28° 51′, W. 94° 36′ †	29.96	761.0				e.			1		4		e	0	0	sm'h	e.	fair.
S. S. Benledi, N. 37° 15′, E. 10° 45′			73	22.8	85	sse.			3–4		9		sw.			sm'h		showery.
S. S. Burswell, N. 36° 35′, W. 8° 08′ *†	30.11	764.8	71	21.7		wnw.			2		3		nw.	0	0	str'g	sw.	clear.
Bk. Ceylon, N. 8° 45′. W. 31° 23′†	29.96	761.0	84	28.9	91	sse.			4		9		sse.	4 h'r	4 h'r	long	s.	cloudy.
Schr. Clotilde, N. 25° 53′, W. 77° 47′ †	29.89	759.2	81	27.2		nw.			3		8		nw.			sm'h	nw.	raining.
Schr. C. R. Flint, Demerara, British Guiana†	30.01	762.2	82	27.8							4		ene.	0	0			fair.
S. S. D. J. Foley, Milk River, Jamaica. W. I.*†	29.96	761.0	81	27.2	87	e.			1		3		ese.	3 h'r	3 h'r			clear.
Bk. Diamant, N. 48° 46′, W. 17° 08′	30.12	765.0	56.5	13.6	95	sse.			4		7		sse.	14 h'r	14 h'r	4	se.	cloudy.
S. Dynomene, N. 9° 16′, W. 24° 00′	29.98	761.5	79.4	26.3	94	w.			1		9			h'vy	h'vy	light	s.	raining.
S. E. J. Spicer, N. 44° 28′, W. 36° 20′	30.15	765.8	59	15.0	88	nnw.			3		10		nne.	10 h'r	10 h'r	mod.	ne	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	29.95	760.7	84	28.9		e.			2					0	0			fine.
S. Festina Lente, N. 47° 47′, W. 45° 55′			50	10.0		sw.			5		10			3 h'r	3 h'r	mod.	wsw.	light rain.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.11	764.8	60	15.6	100	calm			0		10			0	0			foggy.
S. Gatherer, N. 47° 55′, W. 18° 30′*	30.07	763.8	59	15.0	88	ene.					9		var.	rain	rain	r'gh		cloudy.
Bg. George, N. 31° 10′, W. 74° 00′*†	29.74	755.4	78	25.6		e.			4		8		e.	shr's	shr's	r'gh	nne.	clearing.
Bk. Galeon, N. 20° 29′, W. 49° 30′ †	30.06	763.5	81	27.2		e.			3		2		e.	0	0	long	n.	blue sky.
Bk. Hattie G. McFarland, Sandy Hook, N.J.†	30.15	765.8	58	14.4		calm			0					0	0			smoky.
S. Hedwig, N 20° 09′ W. 53° 42′	30.09	764.2	81.7	27.6	83	ene.			4		4		ene.	0	0	2	ene.	fine.
Bk. Heinrich & Tonio, N. 49° 20′, W. 6° 15′†	29.93	760.2	52	11.1		wnw.			2		0			0	0	sm'h		clear.
Schr. Isabel Alberto, N. 25° 23′, W. 83° 08′						n.			1		1		n.	0	0	light	n.	clear.
Bk. Ibis, N. 37° 00′, W. 74° 40′*	30.04	763.0	68	20.0		ne.			4		fg.			0	0	hv'y		
Schr. Jennie N. Huddell, Wilmington, N. C.†	29.98	761.5	66	18.9	84	nne.			5		10			0	0			cloudy
Bk. John H. Pearson, N. 35° 23′, W. 9° 31′						n.			1				n.	0	0	short	wsw.	clear.
Schr. Jas Slater, N. 33° 25′, W. 69° 00′†	29.98	761.5				sse.			4		8		ssw.	5 h'r	5 h'r	r'gh	sse.	squally.
Bg. Josefa, Little Glace Bay, N. S.†	30.15	765.8				wsw.			2		4		w.	0	0			fair.
Bk. Lady Hincks, N. 37° 08′, W. 65° 50′ *†	30.10	764.5												0	0	high	e.	
Bg. Lilian, N 24° 50′, W. 66° 32′ †	30.01	762.2	81	27.2		se.			5		0		se.	6 h'r	6 h'r	r'gh		squally.
Bg. L. & W. Armstrong, N. 38° 21′, W. 73° 15′*†	30.04	763.0				nne.			3					0	0	long	ene	foggy.
S. S. Madrid, Kertch, Russia †	30.06	763.5	62	16.7	83	e.			0		3		e.	0	0			fair.
Bk. Matilda C. Smith, N. 44° 50′, W. 32° 50′*†	30.08	764.0				ne.			5		4		ne.	6 h'r	6 h'r	r'gh	ene.	clearing.
Bk. Matthias, N. 37° 41′, W. 50° 03′ *†	30.38	771.6	71.0	21.7		nne.			1–2		1			0	0	5	e.	fine.
Schr. Norena, N. 33° 50′, W. 67° 30′						se.			3		3		sw.	6 h'r	6 h'r	mod.	var.	fair.
Bk. National Eagle, N. 36° 36′, E. 13° 10′						se.			1		5		nw.	0	0	sm'h		fair.
S. S. Radnorshire, N. 36° 33′, E. 13° 23′ *†						ese.			4		8		sse.	0	0	sm'h	ene.	threatening.
Schr. Rollin Sanford, Milton, Florida†	30.06	763.5				n.			2					0	0			hazy.
Bg. Rising Sun, N. 21° 53′, W. 57° 23′ †	30.13	765.3	82	27.8		e.			5		1		e.	0	0	mod.	e.	clear.
Bk. Rosalie, N. 10° 35′, W. 27° 16′*†	29.98	761.5				ese.			2		0			5 h'r	5 h'r	light	sse.	clear
Bk. Saga, N. 56° 50′, E. 6° 30′*†	29.75	755.6	56	13.3		var.			1–6		7		var.	10 h'r	10h'r	mod.	var.	light rain.
S. Salisbury, N. 43° 03′, W. 24° 06′	29.94	760.5	66.6	19.2	90	s			4–5		10n		var.	1½h'r	1½h'r	rg'h	sse.	cloudy.
Bk. Samuel B. Hale, N. 34° 08′, W. 34° 15′*†	29.95	760.7				ssw.			6				w.	0	0	short	sw.	fair.
Bk. Sunbeam, N. 45° 59′, W. 23° 15′ †.	29.99	761.7	61	16.1	94	ese.			4		10		sse.	8 h'r	8 h'r	mod.	e.	raining.
Bk. Scud, N. 16° 10′, W. 58° 02′ *†	30.02	762.5	87	30.6		ese.			6		2		ese.	0	0	mod	ese.	fine.
S. St. Francis, N. 38° 24′, W. 55° 47′			77	25.0		sse.			4		2		s.	1 h'r	1 h'r	sm'h	e.	fair.
Schr. Walter L. Plummer, N. 24° 39′, W. 31° 34′*†	30.12	765.0				ese.			2		1		se.			sm'h	ne.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 23° 22′, W. 40° 35′	30.04	763.0	70	21.1	75	se.			2		8	se.				2	s.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.78	756.4	61	16.1	88	wnw.			2–5		5	nw.						squally.
H. M. S. Sylvia, Montevideo, Uruguay	30.22	767.6	60.2	15.7	76	nw.			1		0							blue sky.
H. M. S. Tyne, S. 23° 40′, W. 0° 01′	30.27	768.8	64	17.8	62	se.			5		3	se.				3	se.	blue sky
H. P. M. S. Rainha de Portugal, Landana, L. Guinea	29.88	759.0	78	25.6	80	ssw.			3		7		ssw.	1 h'r	1 h'r	3	ssw.	d. clouds.
H. P. M. S. Bengo, S. 9° 20′, E. 13° 02′	29.98	761.4	76.8	24.9	83	sw.			4		10			0	0	2		overcast.
U. S. S. Brooklyn, S. 37° 26′, W. 27° 24′*	29.60	751.8	58	14.4	94	n.	14	6.3			10		n.	0.12	3.0	mod.	n.	misty.
U. S. S. Nipsic, Montevideo, Uruguay*	30.20	767.1	59	15.0	88	nne.			1		0					sm'h		clear.
S. S. Sirius, Rio de Janeiro, Brazil	30.09	764.3				calm			0		9		sse	0	0			cloudy.
Bk. Aureola, S. 23° 07′, W. 41° 30′†	30.00	762.0	85	29.4		e.			2		7		ene.	1 h'r	1 h'r	h'vy	ssw.	cloudy.
Bk. Adelaide, S. 11° 00′, W. 34° 48′ *†	30.09	764.3	80	26.7		ese.			5		2		se.	1½h'r	1½h'r	mod.	ese.	clear.
S. David Crockett, S. 42° 40′, W. 35° 24′*	29.98	761.5	48	8.9	85	ssw.			3		10		ssw.	0	0	long	sw.	overcast.
Bk. E. L. Pettingill, S. 43° 26′, W. 58° 42′*†	30.35	770.9	58	14.4		n.			5		10			0	0	sm'h		foggy.
Bk. Grey Eagle, S. 17° 07′, W. 34° 30′*†	29.90	759.4				calm			0		0			0	0	short	ene.	clear.
Bg. John Wesley, Natal, Brazil *†	29.90	759.4	80	26.7		e.			3		10		ese.	0	0			cloudy.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.16	766.1				calm			0		0			0	0			clear.
S. S. Mendoza, S. 23° 09′, W. 32° 57′ †	30.15	765.8				nne.			1		2		n.	12 h'r	12 h'r	mod.	ne.	
Bk. Mohican, S. 39 37′, W. 1° 20′	29.75	755.6	57	13.9		ssw.			8		8		ssw.	0	0	h'vy	sw.	cloudy.
Bk. Pilgrim, S. 9° 28′, W. 17° 17′ *†	30.10	764.5				e.			4		4		e.	0	0	mod.	e.	clear.
Bgt. Willie, S. 34° 55′, W. 54° 15′*†	30.18	766.6	62	16.7		ne.			1		fg.			0	0	light	e.	foggy.
Bk. Childwall, S. 11° 30′, W. 32° 49′ *	29.94	760.5	82	27.8		e.			4		9		e.	0	0	light	ese.	clear.
Bk. Achille F, S. 20° 30′, W. 35° —′ †	30.09	764.3	77	25.0		n.			2		10		n.	4 h'r	4 h'r	light	ene.	light rain.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan			65	18.3	94	n.			1		10	nne.						raining.
H. M. S. Champion, Singapore, Malay Peninsula	29.90	759.4	81	27.2	87	ne.			1		5	ne.						d. clouds.
H. M. S. Flying Fish, N. 34° 31′, E. 125° 38′	30.14	765.5	68	20.0	80	n.			1		0					1	n.	blue sky.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.16	766.1	72	22.2		calm			0		0							blue sky.
H. P. M. S. Tamega, Canton, China	30.06	763.6	81.5	27.5	86	s.			2		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.22	767.6	62	16.7	97	nw.			1		10		n.	1.47	37.3			raining.
U. S. S. Essex, Nagasaki, Japan	30.09	764.3	70	21.1	90	n.			2		8		n.					cloudy
U. S. S. Hartford, Corinto, Nicaragua *	29.84	757.9	76	24.4	95	e.			1		10			6 h'r	6 h'r			cloudy.
U. S. S. Juniata, Canton, China	30.05	763.3	80	26.7	78	sse.			2		0			0	0			clear.
U. S. S. Monocacy, Ross Island, Corea	30.18	766.6	66	18.9	77	nne.			1		2		calm					fair.
U. S. S. Pensacola, Yokohama, Japan*	30.08?	764.0?	65	18.3	89	n.			4		10			h'vy	h'vy			cloudy
U. S. S. Ranger, Mare Island, Cal	29.95	760.7	65	18.3	54	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.19	766.8	64	17.8	100	nnw.			2		10		n.	2.50	63.5			light rain.
S. S. Oceanic, N 39° 26′, E. 172° 00′	29.95	760.7	63	17.2	83	sw.			4–6		6			0	0	5	var.	fair.
S. S. Columbia, N. 38° 29′, W. 123° 55′†	29.89	759.2	53	11.7	93	nw.			3		0					mod.	nw.	clear.
S. S. Oregon, Columbia River, Oregon†	30.27	768.8	48	8.9		calm			0									clear.
S. S. Willametta, N. 46° 26′, W. 124° 28′ †	30.33	770.4	52	11.1	93	nne.			2		0			0	0	long	wnw.	clear.
S. S. Ancon, Point Sur, Cal.†	29.84	757.9	57	13.9	87	nne.			2		0			0	0	r'gh	wnw.	hazy.
S. S. Orizaba, N. 35° 15′, W. 120° 50′ *†	29.86?	758.4?	60	15.6	88	se.			5				se.	0	0	long	var.	foggy
S. S. Queen of the Pacific, N. 45° 37′, W. 124° 08′†	30.25	768.3	53	11.7	94	n.			4		0			0	0	light	nnw.	clear.
S. S. City of Pekin, Hong Kong, China †	30.12	765.0	78	25.6	73	ene			4		2		ene.	0	0			clear.
S. S. City of Tokio, N. 41° 10′, E. 177° 48′			58	14.4	90	nnw.			5		10		nnw.	2 h'r	2 h'r	r'gh	nnw.	overcast.
S. S. City of Rio de Janeiro, N. 38° 20′, W. 134° 20′†	30.45	773.4	64	17.8	90	nne.			0		10		nne.			mod.	nne.	foggy.
S. S. Colima, Champerico, Mexico †	29.97	761.2	80	26.7	82	ne.			2		0		s.	0.20	5.1	small	sw.	fair.
S. S. Granada, N. 17° 49′. W. 102° 26′ †	29.89	759.2	80	26.7	87	calm			0		0			0	0	light	w.	clear.
S. S. San Blas, Panama, Panama†	29.91	759.7	74	23.3		e.			3		4		e.	0	0			clear
S. E. B. Sutton, N. 6° 00′, W. 119° 20′*†	29.95	760.7	78.5	25.8	91	s.			4		8		sse.	0	0	r'gh	var.	overcast.
S. Storm King, N. 0° 05′, W. 122° 01′*†	30.03	762.7				se.			5		3		se	0	0	mod.	ese.	fine.
U. S. S. Palos, Canton, China	30.08	764.0	78	25.6	95	s.			1		2		calm					clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.						Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.		Rainfall or melted snow in the past 24 hours.		Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.99	761.7	82.3	27.9	83	s.			2		5					sm'h		d. clouds.
H. M. S. Magpie, S. 0° 05′, E. 106° 48′	29.90	759.4	78.4	25.8	87	e.			2		10							raining.
H. M. S. Mutine, S. 17° 50′, W. 72° 00′	30.04	763.0	63	17.2		calm			0		10					3	ssw.	overcast.
H. M. S. Nelson, Sydney, N. S. W	29.74	755.4	62	16.7	89	nne.			1–4		8	n.						squally.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	63	17.2	89	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	29.98	761.5	56	13.3	87	ne.			1		10							overcast.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	62	16.7	83	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili*	30.00	762.0	56	13.3	94	e.			1		10					sm'h		overcast
S. S. Australia, Sydney, N. S. W	30.20	767.1	56	13.3	94	ne.			1		0			0	0			clear.
S. S City of New York, S 22° 37′, W. 174° 34′†	30.07	763.8	72	22.2	80	ssw.			4		0			0	0	h'vy	sw.	clear.
S. S. City of Sydney, S. 29° 35′, W. 179° 29′*†	29.87	758.7	63	17.2	83	wnw.			4	2 cs		nw.				mod.	wnw.	clear.
Bk Godeffroy, S. 35° 12′, W. 72° 57′	29.92	760.0				s.			5		10			0	0	long	s.	cloudy.
S. Sovereign of the Seas, S. 8° 12′, W. 102° 33′*†	30.14	765.5	72	22.2	95	ese.			6		10		se.	rain	rain	r'gh	sse.	cloudy.
S. Armenia, S. 24° 52′, W 123° 00′*	30.09	764.3	73	22.8	81	e.			4		10		sw;e.	½h'r	½h'r	long	s	overcast.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	67	19.4		se			3		8		se.			mod.	se.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.96	761.0	79	26.1	91	ssw.			1		4	ese.						d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.96	761.0	81	27.2	87	sse.			1		3	ese.				3	sse.	blue sky.
H. M S. Woodlark, Shatel Arab River, Turkey	30.07	763.8	92.5	33.6	49	nw.			1		0							misty.
Bk. Bore, S. 34° 10′ E. 28° 14′*†	30.04	763.0	77	25.0		wsw.			6		10		var.	8 h'r	8 h'r	mod.	var.	rainy
S. Frank N. Thayer, S. 28° 09′, E. 43° 28′*†	30.10	764.5	73	22.8	90	ene.			5		0			0	0	sm'h		blue sky
Bk. Great Surgeon, S. 37° 41′ E. 69° 50′*†	30.03	762.7	60	15.6		ssw.			7		9		ssw.	2 h'r	2 h'r	rg'h	sw.	rainy.
S. S. Galatia, N. 6° 21′, E. 81° 45′†	29.78	756.4	81	27.2	87	sw.			5		8		sw.	1 h'r	1 h'r	rg'h	sw.	stormy.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 12, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.6	71.6	22.0	71	se.			2		0			0.583	14.8	clear	Roziere.
Algiers			29.97	761.2	70.5	21.4	65	wnw.			5		0			0.945	24.0	clear	Thève.
La Calle			29.97	761.3	68.0	20.0	98	wnw.			5		5			0	0	cloudy	Fonfrède.
Tunis			29.96	761.0	69.4	20.8	67	nw.			3		3			0.264	6.7	pretty fair	Delord.
Saida			30.06	763.6															Pérés.
Tebessa			30.09	764.2	66.2	19.0	54	w.			1		3			0.394	10.0	pretty fair	St. Martin.
Geriville					60.8	16.0	41	nnw.			1		0			0	0	clear	Forfert.
Laghouat			30.01	762.2	71.2	21.8	22	ese.			1		0			0	0	clear	Abraham.
Biskra			30.11	764.9	80.2	26.8	41	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.26	768.6	55.8	13.2	60	se.	5	2.2			7 k		ene.	0	0	fine	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.19	766.8	30.29	769.3	52.2	11.2	72	sse.	3	1.3			9			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.39	746.6	29.94	760.4	59.5	15.3	47	s.			2		2			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.2	29.98	761.6	57.7	14.3	72	e.	0.7	0.3			10			0	0		Dr. Wierzbiski
Eperies	29.11	739.3	29.98	761.5	57.2	14.0	71	calm			0		10 s			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.54	724.8	29.94	760.5	61.2	16.2	77	sse.			2		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.8	29.97	761.3	46.4	8.0	93	calm			0		10			0	0	cloudy	The Staff.
Lemberg	29.02	737.0	30.00	762.0	55.9	13.3	78	se.			1		6			inap.	inap.		Dr. T. Stanecki.
Pola	29.80	757.0	29.91	759.8	64.4	18.0	70	calm			0		5			0	0		I. R. Hydrographic Office.
Szathmar	29.45	748.0	29.91	759.7	57.4	14.1	75	s.			2		7			0	0		Joseph Midlinszky, S. J
Szegedin	29.68	753.8	29.95	760.8	61.2	16.2	63	se.			1		10			0	0		Karl Stancel.
Trieste	29.85	758.2	29.95	760.7	64.9	18.3	53	w.			1		0			0	0		Royal Academy.
Vienna	29.26	743.3	29.98	761.5	56.3	13.5	74	e.			1		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	48.1	8.9	74	sse.	13	5.8			7			0.275	7.0	d. clouds	W. Boswell.
Armagh, Observatory	29.79	756.7	30.02	762.5	51.5	10.8	69	sse.	13	5.8			3					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			30.07	763.8	53.1	11.7	61	se.	16	7.2			5					d. clouds	John Hartnup.
Bolton, Sharples	29.54	750.3	30.08	764.0	50.6	10.3	76	sse.					9					foggy	Thomas Mackereth.
Bradford, Yorkshire	29.69	754.1	30.09	764.3	50.3	10.2	77	se.			1		7			0	0	d. clouds	McLandsborough & Preston.
Cardington	29.98	761.5	30.09	764.3	56.0	13.3	76	ne.			0.4		4					d. clouds	John McLaren.
Chatham, School M. E.	29.87	758.7	30.04	763.0	54.5	12.5	90	ne.			1		10					gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.82	757.4	30.05	763.3	58.0	14.4	79	sse.			2		4					d. clouds	The Staff.
Fort Napier, Natal	27.57	700.3	29.79	756.7	72.0	22.2	42	e.			2		5					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.94	760.5	86.0	30.0	84	sw			4		0?					raining?	J. W. Smith.
Galway, Queen's College	29.92	760.0	29.96	761.0	48	8.9	85	se.			2		4			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	69.5	20.8	92	nw.			3		5					d. clouds	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.85	758.2	30.06	763.5	46.0	7.8	82	sse.			1							foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.88	758.9	30.06	763.5	53.7	12.1	87	nne.			1		10					overcast	The Staff.
Guernsey	29.75	755.6	30.05	763.3	59.0	15.0	79	nw.			1		4					d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.03	762.7	30.07	763.8	53.7	12.1	80	ne.	8	3.6			9					misty	The Staff.
Leicester, Museum	29.82	757.4	30.08	764.0	55.0	12.8	68	ne.			1		3					d. clouds	J. C. Smith.
Malta, Mediterranean	29.68	753.9	29.75	755.6	72.4	22.4	67	sw.			3		3			0.38	9.7	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.87	758.7	29.92	760.0	81.5	27.5	69	s.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.57	751.1	30.09	764.3	53.5	11.9	83	ene.			1		2					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.85	758.2	30.08	764.0	55.0	12.8	71	ne.			2		4					d. clouds	The Staff.
Plymouth	29.96	761.0	30.04	763.0	58.0	14.4	77	sw.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.92	760.0	30.02	762.5	48.2	9.0	74						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.91	759.7	29.97	761.2	67.4	19.7	72	sw.			1		3			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.82	757.4	30.10	764.5	53.0	11.7	80	e.			1		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.04	763.0	30.06	763.5	51.5	10.8	79	se.			1		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.09	764.3	52.0	11.1	66	nne.	6	2.7			8					d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					56.8	13.8	75	e.			0.5		7					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.99	761.7	30.06	763.5	63	17.2	72	se.			2		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.92	760.0	29.94	760.5	55.4	13.0	77	se.	34	15.2			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.44	747.8	29.83	757.7	69.4	20.8	66	nw.	6.2	2.8		6 ck	0	w.		0.37	9.4	misty	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.36	771.1	30.40	772.1	37.0	2.8		calm	0	0		5 cs	0			0.100	2.5	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.33	770.4	30.37	771.4	43	6.1	93	calm	0	0		8 c	0	w.		0.110	2.8	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.36	771.1	30.43	772.9	35	1.7	100	calm	0	0			fg			0	0	dense fog	G. A. Blair.
Cornwall, Ontario	29.91	759.7	30.10	764.5	49.2	9.6	94	e.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.36	771.1	30.41	772.4	36.5	2.5		w.			1		10 ks			0	0		H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.28	769.1	30.30	769.6	38	3.3	82	s.	5	2.2			10 k			0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.36	745.7	30.24	768.1	26	— 3.3	92	se.	4	1.8		0	5 ks		se.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.33	770.4	30.40	772.1	41.1	5.1	91	calm	0	0		1 ck	0			inap.	inap.	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.30	769.6	30.35	770.9	51	10.6	80	se.	8	3.6			10 s			0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.80	731.5	29.90	759.4	49.0	9.4	100	calm	0	0			10 n			0.05	1.3	overcast	Jas. Grant.
Halifax, N. S*	30.23	767.8	30.36	771.1	52	11.1	80	ne.	3	1.3		10 k				0	0	cloudy	A. Allison.
Hamilton, Ontario	29.60	751.8	29.98	761.5	48.9	9.4	93	ne.			1	10				0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.75	755.6	30.09	764.3	51	10.6	93	e.	8	3.6			10 k		se.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.33	770.4	30.37	771.4	51.0	10.6	77	ne.			4								C. H. Rigby.
London, Ontario	29.11	739.4	30.01	762.2	49.7	9.8	100	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.81	706.4	30.20	767.1	29	— 1.7	88												John Ewart.
Minnedosa, N. W. T	28.19	716.0	30.19	766.8	24	— 4.4	92	calm	0	0		0	5 s		nw.	0	0	fair	Rev. J. M. Wellwood.
Montreal, Quebec*	29.95	760.7	30.16	766.1	45	7.2	93	ne.	3	1.3			10 s		sw.	0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.91	759.7	30.13	765.3	46.3	7.9	96	e.					10 s			0.050	1.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.34	745.2	30.04	763.0	47	8.3	93	s.	7	3.1		5 k	5 ks		se.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.30	744.2	30.04	763.0	52.7	11.5	82	calm			0	0	0			0	0	misty	Wm. O'Connor, M.A.
Port Arthur	29.46	748.3	30.19	766.8	35	1.7	82	nw.	4	1.8		0	8 ks		w.	0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.32	744.7	30.01	762.2	50	10.0	100	ne.	8	3.6			10 n			0	0	cloudy	H. Morgan
Port Stanley, Ontario	29.36	745.7	30.01	762.2	51	10.6	93	e.	4	1.8			10 k		sw.	0.03	0.8	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.86	707.6	30.22	767.6	28	— 2.2	96	ne.	4	1.8			10 n		ne.	0.01	0.3	cloudy	Leslie Gordon.
Quebec, Quebec*	29.87	758.7	30.23	767.8	45	7.2	93	ne.	20	8.9			10 ks			0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.09	764.3	46	7.8	93	e.	12	5.4			10 s		se.	0	0	threatening	W. H. McIntyre.
St. Andrews, N. B	30.27	768.8	30.32	770.1	48	8.9	85	e.	1	0.4			10 n			0	0	cloudy	
St. John, N. B	30.20	767.1	30.35	770.9	44.8	7.1	85	n.	1	0.4		5 k	4 k	s.		0.100	2.5	d. clouds	G. Hutchinson.
Saint John's, N. F	30.007	763.5?	30.32?	770.1?	44	6.7	92	w.			1	0	0			0.08	2.0	clear	J. Higgins.
St. Pierre, N. F			30.28	769.0	58.6	14.8		ne.			4					0	0		The Commandant.
Saugeen, Ontario*	29.27	743.4	29.99	761.7	48	8.9	89	calm	0	0			10 ks			0	0	cloudy	
Stratford, Ontario	28.73	729.7	30.01	762.2	48.2	9.0	96	se.	3.0	1.3			10 s			0.051	1.3	d. clouds	O. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
S. W. Point, Anticosti	30.32	770.1	30.36	771.1	39	3.9	82	se.			2	5 ck	0			0	0	fair	Miss Grace Pope.
Sydney, C. B.	30.31	769.9	30.37	771.4	46	7.8	89	ne.	1	0.4		2 c	0	w.		0.01	0.3	clear	[illegible], C. E.
Toronto, Ontario*	29.66	753.4	30.05	763.3	50	10.0	96	e.	8	3.6			10 n		e.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.98	736.1	30.04	763.0	49.3	9.6	96	e.	8	3.6			10 n			0.20	5.1	foggy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.22	767.6	30.29	769.4	53	11.7	93	e.	5	2.2			10 k		e.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.84	757.9	29.87	758.7	62.5	16.9	72	sw.	12.8	5.7		0	5 s			0.050	1.3	fine	I. Garfelt.
Springbok Fontein	27.93	709.4			53	11.7	70									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.99	761.8	30.07	763.8	55.4	13.0	90	n.			1	10						cloudy	Samuel Redolez.
Iquique	29.99	761.8	30.02	762.5	64.4	18.0	79	w.			3							hazy	Rafael Moreno.
Niebla	29.44	747.7	29.54	750.4	52.5	11.4	85	wnw.			2	0	4 n		nw.	0	0		Federico Kühling.
Punta Caldera	29.99	761.8	30.08	764.0	59.4	15.2	85	ne.			1	2 k	c	ne.	ne.			fair	Manuel Tobar.
Punta Corona	29.99	761.7	30.18	766 5				s.			1		10			0	0	hazy	Francisco Alvarado.
Valparaiso	29.78	756.3	29.92	759.9	58.1	14.5	88	s.			1	9	1					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.42	645.7																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.11	764.9	30.14	765.5	63.1	17.3	76	s.	4.0	1.8		2 ck	0			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.96	761.0	30.01	762.2	52.3	11.3	68	n.	13	6			1						Oversergent Fischer.
Fanoe	30.07	763 8	30.09	764 3	51.3	10.7	60	nnw.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.87	758.6	29.91	759.7	23.0	— 5.0	95	calm			0		8					misty	S. Kleinschmidt.
Jacobshavn, Greenland	29.83	757.6	29.87	758.8	16.7	— 8.4		e.			2		3						
Stykkisholm, Iceland	29.48	748.8	29.52	749.9	36.3	2.4	70	e.			9		10					snowing	A. O. Thorlacius.
Thorshavn	29.87	758.7	29.89	759.3	46.8	8.2	83	se.	18	8			10					raining	Overloerer Bergh.
Vestervig	29.99	761.8	30.08	764.1	48.9	9.4	57	nw.			4		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.83	757.6			79.9	26.6		n.	2.7	1.2			2 s			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.41	747.1	30.06	763.5	59.0	15	91	w.			1		nk	w.	w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.57	751.0	30.12	765.0	55.4	13	90	ne.			1		1		sw.	0	0	clear	M. Nicot, Director.
Avignon, Normal School	29.85	758.1	29.93	760.1	64.4	18	67	nnw.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.43	747.4	29.97	761.3	61.5	16.4	70	ene.			1		5		nw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.74	755.5	30.01	762.2	57.2	14	80	wnw.			1		2		nne.	0	0	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	29.04	737.6	29.96	760.9	50.0	10	86	ne.			1		5		sw.	0.98	25.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.75	755.7	30.02	762.4	57.2	14.0	83	w.			1		10		w.	0.303	7.7	raining	M. Rayet, Director.
Bourges, Normal School	29.45	747.9	30.00	761.9	57.2	14	82	sw.			1		n		sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.80	757.0	30.04	763.1	65.5	18.6	72	calm			0		2			0	0		M. de Kermarée, Dir.
Caen, Normal School	29.90	759.4	29.97	761.3	60.4	15.8	79	n.			1					0.028	0.7		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.61	752.0	29.93	760.1	59.0	15.0	87	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.46	748 2	29.97	761.1	62.6	17.0	61	ese.			1		2	ne		0.012	0.3	¼ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.63	727.2	29.98	761.4	57.2	14 0	82	nw.			1		10			0.008	0.2		M. Alluard, Director.
Cluny, Normal School	29.14	740.1	29.99	761.8	63.7	17.6	68	ne.			1				nne.	0.016	0.4		M. de Villemontée, Dir.
Cominercy, Normal School	29.12	739.7	29.97	761.2	63.1	17.3	69	w.			1	2 c		w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.39	695.6	29.91	759.6	61.2	16.2	73	calm			0		6 k			0	0		M. Jarach, Director.
Grésque, du Rhone	28.80	731.5	29.89	759.3	68.5	20.3	41	sw.			2		3		sw.	0	0		M. Kina, Director.
Grenoble. Normal School	29.15	740 5	29.91	759.6	63.0	17.2	57	ne.			1	cs			n.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.42	721.8	29.98	761.4	57.2	14	93	sw.			1		10 n		sw.	0.24	6.	raining	M. Delorme, Dir.
Lamballe, Normal School	29.71	754 6	29.98	761.6	59.0	15	70	s.			2		5		s.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.48	748.9	30.05	763.3	58.6	14.8	76	ssw.			1		8			0.756	19.2	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.1	30.07	763.7	66.2	19.0	70	sw.			1		2	ne.		0	0	¼ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.90	734.1	29.95	760.6	61.9	16.6	61	n.			1		2 kn			0	0	slightly cl'dy	M. Andre, Director
Mans, Normal School	29.72	754.8	30.02	762.6	58.1	14.5	93	n.			1		5		n.	0.004	0.1	cloudy	M. Richard, Director
Marseille, Observatory	29.65	753.2	29.92	760.0	68.2	20.1	55	wsw.			1–2		4		wnw.	0	0		M. Stephan, Director.
Montlouis	24.84	631.0	29.69	754.0	42.4	5.8	76	nw.	9.4	4.2			10			0.374	9.5		M. Cave for Dr. Fines.
Montpellier, Normal School	29.79	756.6	29.90	759.4	71.2	21.8	62	nw.			6		5	nw.				raining	M. Galzin, Director.
Nancy	29.21	741.8	29.98	761.4	57.9	14.4	80	nw.			1		ku			0	0		M. Hasse, Director.
Nantes, Observatory	29.89	759.3	30.06	763.4	60.4	15.8	73	ne.			1		8 k; kn		ene.	0.020	0.5		M. Larroque, Director.
Perpignan, Observatory	29.89	759 1	30.00	762.0	62.4	16.9	60	nw.	9.4	4.2			10			0.480	12.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.18	538.1			29.8	— 1.2		ne.			1		2		w.	0.472	12.0	foggy	M. Vaussenat, Director.
Privas, Normal School	28.87	733.4	29.91	759.7	67.1	19.5	53	n.			1		10		n.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.13	638.3			41.2	5.1	100	wsw.			2		10			0.008	0.2	rain & fog	M. Alluard.
Rochefort, Naval Obs'y	29.93	760.2	29.96	761.0	57.2	14.0	82	n.			1		10			0.142	3.6	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.81	757.1	30.02	762.6	57.2	14	91	se.			1		10			0.055	1.4	covered	M. Brotier, Director.
Rodez, Normal School	27.88	708.1	30.02	762.6	54.7	12.6	93	se.			1		10 n		nw.	0.003	1.6	raining	M. Seger, Director.
Rouen, Normal School	30.01	762.3	30.06	763 5	55.8	13.2	90	e.			1		2			0	0	slightly cl'dy	M. Mouillot, Dir.
St Lô	29.82	757.5	29.97	761.1	58.3	14.6	75	ne.			1		5		ne.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.86	758.4	30.02	762.6	52.7	11.5	93	nne.			1		10			0	0		M. Renou, Director.
Toulouse, Observatory	29.35	745 4	30.07	763.8	58.6	14.8	84	wsw.			2		10	w.		0.197	5.0	covered	M. Bailland, Director.
Tours	29.82	757.5	30.00	762.0	59.7	15.4	70	n.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.52	749.9	30.02	762.4	50.7	10.4	93	ne.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.95	760.7	30.10	764.5	62.1	16.7	73	w.	5.8	2.6			8 k		w.	0.098	2.5		M. Cartier, Director.
GERMAN.																			
Ansbach	28.52	724.4	29.95	760.8	56.8	13.8	70	e.			2		1	e.		0	0		Prof. Jnedt.
Bamberg	29.13	740.0	29.98	761.4	57.2	14.0	73	calm			0		4 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.6	30.01	762.3	56.1	13.4	82	w.			2		3			0	0		Dr. Lensch.
Breslau	29.47	748.4	30.00	761.9	57.4	14.1	63	calm			0		8			0	0		Royal University Obs'y.
Carlsruhe	29.54	750.4	30.00	762.1	51.6	10.9	87	sw.			1		10	s.		0	0		Albert Senz.
Cassel	29.29	744.0	30.00	762.1	57.9	14.4	72	ne.			1		8	ne.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.61	752.2	29.98	761.4	58.8	14.9	59	ne.			1		7			0	0		Physical Society.
Friedrichshafen	28.54	724.9	29.95	760.8	54.3	12.4	89	sw.			1		3	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.96	761.0	30.05	763.3	51.3	10.7	71	n.			2		10			0.035	0.9		E. Preiler.
Kiel	30.04	763.0	30.06	763.4	51.1	10.6	63	n.			2		2			0	0		Pro. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.59	751.5	30.01	762.2	55.6	13.1	77	n.			1		10			0	0		H. Leppig, Asst.
Magdeburg	29.82	757.4	30.01	762.2	56.8	13.8	76	nnw.			1		10	nw.		0	0		Weather Observatory.
Memel	29.91	759.7	29.96	760.9	57.0	13.9	85	nw.			4		10 k						Issermann.
Munich	28.12	714 2	29.98	761.4	56.7	13.7	61	ne.			1		3	n.		0	0		Central Station.
Neufahrwasser	29.93	760.2	29.95	760.6	57.4	14.1	79	e.			1		9			0	0		A. Lothes.
Neustadt, Palatinate	29.44	747.8	29.97	761.2	52.5	11.4	86	calm			0		10			0	0	foggy	Dicknether.
Stuttgart	29.02	737.0	29.90	759.4	59.0	15.0	68	n.			1		1	n.		0	0		Prof. Dr. Schoder.
Wustrow	29.98	761 5	30.01	762.2	51.6	10.9	55	n.			2		10 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.62	752.3	30.00	762.0	66.6	19.2		ne.			0.5		10			0.004	0.1	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.79	756.6	29.84	757.8	88.1	31.2	62	wsw.	15.0	6.7			0			0	0	blue sky	
Deesa	29.38	746.1	29.85	758 3	77.4	25.2	68	e.	12.0	5.4			8	e.	e.	0.08	2.0	thund'r st'm	
Bombay	29.78	756.5	29.82	757.5	87.1	30.6	75	ne.	10.0	4.5			3		ne.	0.18	4.6	d. clouds	
Poona, Yarrowda	28.00	711.1	29.83	757.8	84.3	29.1	53	e.	9.0	4.0			5	s.		0	0	d. clouds	
Trichinopoly	29.56	750.9	29.85	758.1	79.5	26.4	85	ene.	0.3	0.1			10			0	0	overcast	
Bellary	28.32	719.4	29.78	756 3	85.0	29.4	52	se.	8.0	3.6			9			0	0	gloomy	
Belgaum	27.30	693.4	29.80	757.0	80.8	27.1	51	ne.	4.0	1.8			4	s.	e.	0	0	d. clouds	
Lahore	29.12	739.7	29.87	758.6	81.0	27.2	56	calm	0	0			0			0	0	blue sky	
Roorkee	28.96	735.6	29.85	758.3	83.8	28.8	46	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.29	744.0	29.84	758.0	91.2	32.9	21	w.	2.0	0.9			4		w.	0	0	d. clouds	
Nagpur	28.82	732.0	29.86	758.3	85.2	29.6	39	e.	3.0	1.3			0			0	0	blue sky	
Jubbulpore	28.55	725.1	29.90	759.3	83.8	28.8	38	ene.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.50	749.2	29.87	758.6	87.1	30.6	35	calm	0	0			0			0	0	blue sky	
Allahabad	29.55	750.5	29.86	758.5	80.7	27.1	53	calm	0	0			0			0	0	blue sky	
Patna	29.68	753.9	29.87	758.6	84.6	29.2	60	nw.	1.3	0.6			2	nw.	nw.	0	0		
Hazaribagh	27.89	708.3	29.90	759.3	79.5	26.4	36	nnw.	3.4	1.5			0			0	0	blue sky	
Cuttack	29.84	758.0	29.92	760.1	84.0	28.9	74	calm	2.0	0.9			7			0	0	d. clouds	
Calcutta, Alipore	29.87	758.6	29.89	759.2	81.7	27.6	84	calm	0	0			6	ne.	ne.	0	0	d. clouds	
Dhubri	29.78	756.5	29.90	759.5	78.5	25.8	91	calm	0.4	0.2			7			0	0	d. clouds	
Chittagong	29.88	758.8	29.97	761.2	75.6	24.2	97	sw.	6.5	2.9			10			0	0	overcast	
Sibsagar	29.58	751.3	29.92	759.9	77.0	25.0	93	ene.	2.0	0.9			10	w.	w.	0.05	1.3	overcast	
Jeypore	28.44	722.4	29.86	758.3	89.3	31.8	35	wsw.	3.7	1.6			5		sw.	0.01	0.3	d. clouds	
Zanzibar	29.98	761.5			77.0	25.0	91	nne.	4.0	1.8			9		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.53	750.1	29.94	760.4	63.3	17.4	47	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.43	747.6	29.95	760.7	62.2	16.8	53	s.	3.1	1.4			2	sse.		0	0		Prof. G. V. Schiapparelli
Padua	29.82	757.3	29.93	760.1	61.9	16.6	60	ene.	1.8	0.8			1	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.2	29.97	761.1	60.8	16.0	59	ne.	1.1	0.5			6	n.		0	0		Prof. F. F. Denza.
Genoa	29.71	754.7	29.90	759.5	67.1	19.5	43	n.	2.5	1.1			2	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.04	712.1	29.94	760.5	57.4	14.1	57	w.			4		4			0	0		Prof. D. C. Bruno.
Pesaro	29.88	758.9	29.93	760.1	59.7	15.4	83	nw.	14.3	6.4			10			0	0		Prof. Luigi Guidi.
Florence	29.62	752.3	29.87	758.8	67.6	19.8	43	e.			2		9			0	0		Prof. Costantino Pittei
Leghorn	29.74	755.4	29.83	757.6	67.6	19.8	52	ene.	5.6	2.5			5	ne.		0	0		Prof. P. Monte.
Rome	29.64	752.9	29.82	757.3	69.6	20.9	40	nnw.	2.5	1.1			6			0	0		Prof. P. Tacchini.
Lecce	29.59	751.6	29.84	758.0	65.1	18.4	71	sse.	18.6	8.3			10	se.		0	0		Prof. C. de Giorgi.
Cosenza	28.92	734.5	29.80	757.0	63.0	17.2	63	wsw.	2.5	1.1			10	w.		1.102	28.0		Prof. D. Conti.
Cagliari	29.58	751.2	29.76	756.0	70.0	21.1	64	calm			0		6			0.532	13.5		Prof. A. Pacinotti.
Palermo	29.48	748.8	29.73	755.1	70.0	21.1	60	wsw.	12.5	5.6			7	wnw.		0.319	8.1		Prof. G. Cacciatore.
Syracuse	29.69	754.1	29.73	755.2	73.2	22.9	66	w.	9.4	4.2			7	wnw.		1.535	39.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.29	743.9	29.80	756.9	65.7	18.7	71	ne.	0	0			10	se.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.13	765.4	30.16	766.3	56.4	13.6	97	calm			0	9c;cs	0	sw.		0.051	1.3	cloudy	H. Hattori.
Awomori	30.14	765.5	30.18	766.6	52.9	11.6	88	calm	0	0		4 cs	0	w.		0	0	fair	K. Ogawa.
Hamamatsu	29.94	760.5	30.04	763.0	63.7	17.6	98	e.			4		10 s		e.	0.496	12.6	covered	Sekigawa & Yamazaki.
Kagoshima	29.75	755.6	29.76	755.9	70.9	21.6	73	nw.			2	0	9 s		n.	0.016	0.4	overcast	G. Miyanohaza.
Kanazawa	29.98	761.5	30.09	764.2	65.5	18.6	86	e.	1.3	0.5			10 n			1.422	36.1	raining	S. Endo.
Kioto	29.89	759.2	30.06	763.6	66.2	19.0	87	nne.	2.3	1.0			10 n			1.945	49.4	light rain	M. Tojima.
Kochi	29.90	759.4	29.93	760.1	67.2	19.6	96	w.	3.3	1.4			10 n			1.98	50.2	raining	K. Kusunose.
Miasaka	29.74	755.3	29.76	756.0	69.1	20.6	87	nne.			6		10 n		ne.	1.087	27.6	raining	K. Masusaki
Miyako	30.12	765.0	30.23	767.8	56.0	13.3	97	wsw.	2.1	0.9		4 c	0			0.240	6.1	fair	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.7	70.8	21.6	68	n.	10.2	4.6			10 s			0	0	overcast	S. Takehayasu
Niigata	30.08	764.0	30.11	764.8	65.4	18.6	85	ne	2.0	0.9			10s;ks		sw.	0.140	3.6	covered	Satoo & Tomikawa.
Nobiru	30.20	767.0	30.21	767.4	60.8	16.0	96	e.	1.6	0.7		10cs;ck	0	w.		0.225	5.7	covered	Yoslino & Midzushina.
Numazu	30.12	765.0	30.16	766.0	65.1	18.4	87	ne.			2		10 n			0.528	13.4	light rain	R. Kaneda.
Osaka	30.02	762.6	30.04	763.0	64.7	18.2	92	ne.	19.1	8.5			10 n			2.667	67.7	raining	H. Omura.
Sakai	30.00	761.9	30.01	762.1	69.4	20.8	78	ne.			2		10 ks		nne.	0.213	5.4	cloudy	Yamawchi & Sakamoto.
Shimonoseki	29.81	757.2	29.96	760.9	68.0	20.0	88	calm			0		10 s			0.012	0.3	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.13	765.2	30.20	767.1	61.5	16.4	99	n.	8.2	3.7			10 n		nne.	0.958	24.3	light rain	The Staff.
Wakayama	29.92	759.9	29.97	761.2	65.4	18.6	92	ne.	0.4	0.2			10 n			4.126	104.8	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	74.0	23.3	51	ese.	15.0	6.7		0	3k;ks		se.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.30	617.2	29.95	760.7	59.5	15.3	92	n.	0.9	0.4			10 n;s			0.528	13.4	overcast	Prof. M. Leal.
Mazatlan	29.63	752.5	29.88	759.1	77.0	25.0	86	nw.	0.9	0.4		1 cs	2 ks	se.		0.059	1.5	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.03	762.7	30.03	762.7	61.2	16.2		s.			2					0	0		
Groningen	30.00	762.0	30.06	763.4	48.9	9.4		ese.			1					0.079	2.0		
Helder	30.04	763.1	30.04	763.1	52.9	11.6		ne.			4					0.012	0.3		
Hellevoetsluis	30.02	762.6	30.02	762.6	60.4	15.8	78	calm			0					0.004	0.1		
Utrecht	29.99	761.8	30.04	763.0	58.5	14.7	78	ssw.			1		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.91	759.7			79.7	26.5	75	ene.	0	0			2			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.02	762.4	30.18	764.0	43.9	6.6	68	wsw.	2	1			5			0.453	11.5		
Brono	29.71	754.5	29.74	755.5	41.7	5.4	51	nw.			7		8			0.154	3.9	light sleet	
Christiania	29.83	757.6	29.98	761.4	48.2	9.0	39	wnw.	7	3			0			0.287	7.3		
Gjæsvær	29.40	746.7	29.42	747.3	34.3	1.3		ese.			6		10					light snow	
Lodingen	29.37	746.0	29.42	747.2	37.2	2.9	79	wnw.			2.4		10			0.272	6.9		
PORTUGUESE.																			
Angra, Azores					70.5	21.4	91	wsw.	3.8	1.7			5			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.13	765.4	30.22	767.6	71.4	21.9	54	sw.	3.1	1.4			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	757.0	30.14	765.5	64.0	17.8	62	n.	9.4	4.2			7		w.	0	0		The Staff.
Ponta Delgada, Azores	30.07	763.8	30.14	765.6	73.4	23.0	80	sw.	15.0	6.7			4			0	0		
Saint Paul de Loando	29.75	755.6	29.95	760.7	77.0	25.0	88	w.	1.3	0.6			10			0	0		
San Salvador, Congo	28.12	714.3	29.97	761.1	75.0	23.9	74	calm			0		10			0	0		
Serra da Estrella	25.35	643.9	30.08	763.9	50.0	10.0	51	nnw.	1.3	0.6			10			0	0		
RUSSIAN.																			
Akmolinski	28.95	735.3	30.08	763.9	31.1	−0.5	57	wnw.	22	10			10 n			0	0		Major K. Lasarew.
Archangel	29.75	755.6	29.77	756.1	33.4	0.8	92	se.	13	6			10			0.047	1.2		Capt. Sselilwerstow
Ashurada	30.27	768.8	30.17	766.4	77.7	25.4	73	nw.	7	3		0	1 k			0	0		
Astrakhan	30.40	773.6	30.38	771.7	61.0	16.1	58	e.	20	9		0	7 k			0	0		Capt. Wisganow.
Baku	30.25	768.3	30.20	767.1	74.5	23.6	75	se.	9	4		0	5 ks			0	0		
Barnaul	29.27	743.4	29.77	756.1	48.9	9.4	58	sw.	18	8			10			0.004	0.1		Meteorological Obs'y
Bielosersk	29.53	750.1	30.00	762.1	45.1	7.3	76	s.	16	7			10 s			0.098	2.5		
Dorpat	29.63	752.5	29.87	758.7	51.6	10.9	87	sw.	11	5			10 ks			0.016	0.4		Observatory.
Ekaterimburg	29.26	743.3	30.28	769.2	26.4	−3.1	61	wsw.	34	15			10k;cs	6		blank	blank		Meteorological Obs'y.
Elisawetgrad	29.56	750.9	30.02	762.4	52.2	11.2	89	e.	13	6			10 s;n			0.327	8.3		
Irkutsk	28.45	722.6	30.10	764.5	47.1	8.4	66	calm			0		3			0	0		
Kasalinsk					52.2	11.2	32	n.	13	6		0	0						
Kasan	30.19	766.9	30.47	773.9	47.1	8.4	52	wsw.	4	2		0	0			0	0		Observatory.
Kem	29.42	747.2	29.47	748.5	35.8	2.1	96	sw.	9	4			10 n			0.142	3.6		
Kertch	30.12	765.0	30.14	765.6	71.8	22.1	74	se.	7	3		0	3 k			0.028	0.7		Lagorio & Sastyres.
Kieff	29.41	747.0	30.04	763.0	57.0	13.9	66	ne.	11	5		0s	10 ks			0.370	9.4		Observatory.
Koslov	29.85	758.2	30.37	771.3	49.6	9.8	65	ese.	7	3		30s	0			0.179	2.0		
Libau	29.88	758.9	29.90	759.5	52.3	11.3	89	w.	9	4			10			0.059	1.5		E. Quaas.
Lugan	29.92	760.0	30.12	765.1	65.7	18.7	41	e.	34	15			9			0.236	6.0		Meteorological Obs'y.
Moscow	29.80	756.8	30.28	769.1	51.6	10.9	54	sw.	7.8	3.5		0	7 s			0	0		Meteorological Obs'y
Nikolaiev	29.84	757.9	29.91	759.7	55.4	13.0	96	nne.	4	2			10 n			0.236	6.0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.59	751.6	29.68	753.8	52.9	11.6	52	calm	0	0		2 ck	0						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Pekin, China	30.06	763.6	30.21	767.2	60.6	15.9	76	calm	0	0	.....	2 c	0	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.93	760.1	30.27	768.8	73.4	23.0	26	nne.	2.2	1.0	.....	3 cs	0	.....	.....	0	0	.....	
Petrozavodsk	29.50	749.3	29.70	754.4	43.7	6.5	86	s.	34	15	.....	.....	10	.....	.....	0.091	2.3	light rain	Dr. Bergmann.
Pinsk	29.56	750.7	30.05	763.3	54.1	12.3	75	ese.	11	5	.....	.....	10 s	.....	.....	0	0	.....	
Poti	29.95	760.8	29.98	761.6	77.0	25.0	76	e.	7	3	.....	0	7 n	.....	.....	0	0	.....	
St. Petersburg	29.77	756.2	29.80	756.8	48.7	9.3	89	ssw.	16	7	.....	.....	10 n	.....	.....	inap.	inap.		Central Physical Obs'y.
Samarkand	27.77	705.3	30.21	767.2	64.6	18.1	37	se.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.32	744.7	29.98	761.6	46.2	7.9	57	w.	13	6	.....	.....	9	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.69	754.0	29.89	759.3	65.8	18.8	78	s.	16	7	.....	0	7 ks	.....	.....	0.374	9.5	.....	
Staroi Bykhov	29.56	750.9	30.12	765.1	50.9	10.5	76	se	7	3	.....	.....	10	.....	.....	0	0	.....	
Tashkend Laboratory	28.54	724.9	30.17	766.4	69.4	20.8	27	nw.	7	3	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.82	731.9	30.19	766.9	72.7	22.6	56	se.	2	1	.....	0	5 k	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.59	700.8	30.05	763.3	62.2	16.8	48	nw.	4	2	.....	0	0	.....	.....	0	0	.....	
Viatka	29.74	755.5	30.40	772.2	35.2	1.8	57	w.	2	1	.....	.....	3	.....	.....	0	0	.....	
Warsaw	29.56	750.8	29.98	761.4	58.1	14.5	72	s.	4	2	.....	.....	10 k	.....	.....	0	0	.....	Astronomical Obs'y.
Yeniseisk	29.39	746.6	29.69	754.0	37.2	2.9	93	s.	4	2	.....	.....	10	.....	.....	0.012	0.3	snowing	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.94	760.5	65.8	18.8	74	wsw.	10.5	4.7	.....	0	7	.....	.....	0.031	0.8	.....	Antonio Molins.
Bilbao, Met. Obs'y	30.05	763.3	30.11	764.8	60.8	16.0	82	nw.	2.0	0.9	.....	.....	10	.....	.....	0.028	0.7	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.14	689.4	30.10	764.5	57.6	14.2	62	ne.	3.1	1.4	.....	0	4	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.1	30.07	763.8	64.4	18.0	61	e.	4.0	1.8	.....	0	7	.....	.....	0	0	very cloudy	The Staff.
Murcia, Met. Obs'y	29.87	758.7	29.99	761.7	71.2	21.8	60	s.	3.4	1.5	.....	6	3	wsw.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.33	745.0	30.09	764.3	56.3	13.5	85	e.	7.4	3.3	.....	.....	10 k	e.	e.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.05	763.3	60.4	15.8	64	ne.	5.6	2.5	.....	.....	6	.....	.....	0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.88	759.0	29.95	760.7	73.6	23.1	85	se.	0.4	0.2	.....	c	k	nne.	w.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.96	760.9	30.01	762.3	80.4	26.9	82	calm	0	0	.....	7 ck	2 k	.....	e.	0.138	3.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	763.1	30.14	765.6	62.4	16.9	81	w.	10.8	4.8	.....	0	2	.....	w.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.91	759.6	30.00	761.9	78.4	25.8	92	calm	0	0	.....	4 sk	4 kn	se.	se.	0.071	1.8	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.29	744.0	29.33	745.0	38.5	3.6	83	sw.	.....	.....	4	.....	10	.....	.....	0	0	.....	
Umea	29.59	751.5	29.64	752.8	44.6	7.0	39	nw.	.....	.....	7	.....	0	.....	.....	0	0	.....	
Hernosand	29.74	755.3	29.79	756.6	46.8	8.2	34	nw.	.....	.....	6	.....	0	.....	.....	0	0	.....	
Stockholm	29.72	755.0	29.90	759.5	47.1	8.4	57	nw.	.....	.....	2	.....	0	.....	.....	0.098	2.5	.....	
Wisby	29.80	756.8	29.85	758.3	50.0	10.0	89	nnw.	.....	.....	4	.....	10	.....	.....	0.004	0.1	.....	
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	46.2	7.9	59	nw.	10.1	4.5	.....	.....	0	.....	.....	0.008	0.2	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	28.54	724.9	29.96	760.9	57.9	14.4	66	n.	.....	.....	2	.....	4	.....	.....	0	0	vapory	The Observatory.
TURKISH.																			
Constantinople	.....	.....	29.99	761.8	68.7	20.4	72	n.	13	6.0	.....	.....	10	.....	sw.	0	0	.....	The Observatory.
Valona	.....	.....	29.95?	760.7?	66.9	19.4	.....	nw.	.....	.....	1	.....	10	.....	.....	0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.92	759.9	80.2	26.8	64	ne.	.....	.....	4	.....	3 k	.....	sw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.76	679.7	.....	.....	65	18.3	84	calm	.....	.....	0	.....	7 k	.....	calm	0	0	cloudy	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.15	765.8	30.23	767.8	53	11.7	80	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.99	761.7	50	10.0	100	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	light fog	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	29.91	759.7	33.0	0.6	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.20	690.9	30.12	765.0	29	— 1.7	80	ne.	12	5.4	.....	.....	10 n	.....	nw.	0.01	0.3	light snow	B. O. Lenoir.
Atlanta, Georgia	28.90	734.0	30.09	764.3	64.0	17.8	63	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	64.1	17.8	100	ne.	7	3.1	.....	.....	fg.	.....	.....	0.07	1.8	dense fog	Jas. M. Watson.
Augusta, Georgia	29.83	757.7	30.02	762.5	70	21.1	76	n.	8	3.6	.....	0	8 s	.....	n.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.09	764.3	30.14	765.5	67	19.4	97	e.	3	1.3	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	Geo. W. Feiger.
Barnegat City, New Jersey	30.12	765.0	30.14	765.5	62.8	17.1	100	e.	18	8.0	.....	.....	10 n	.....	.....	0.12	3.0	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.38	720.8	30.00	762.0	32.0	0.0	81	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.45	697.2	30.36	771.1	32	0.0	100	ne.	3	1.3	.....	.....	10 n	.....	.....	0.08	2.0	snowing	Thomas Morgan.
Bismarck, Dakota	28.18	715.8	30.06	763.5	34	1.1	94	e.	12	5.4	.....	.....	10 n	.....	.....	0.03	0.8	heavy snow	B. O. Lenoir.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	57.5	14.2	96	ne.	17	7.6	.....	.....	10 s	.....	.....	0.39	9.9	cloudy	J. T. Eiker.
Boise City, Idaho	27.22	691.4	30.08	764.0	35	1.7	82	calm	0	0	.....	2 k	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.13	765.3	30.29	769.4	52.0	11.1	100	ne.	13	5.8	.....	.....	10n; fg	.....	.....	0.03	0.8	light rain	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.95	760.7	73.0	22.8	97	calm	0	0	.....	0	4 ks	.....	s.	0	0	fair	John McGlone.
Buffalo, New York	29.26	743.2	30.02	762.5	56.7	13.7	85	ne.	4	1.8	.....	.....	10s; sk	.....	se.	inap.	inap.	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.99	710.9	30.09	764.3	31	— 0.6	88	n.	12	5.4	.....	.....	10 n	.....	n.	0.07	1.8	light snow	A. Schneider.
Cairo, Illinois	29.66	753.4	30.06	763.5	65.6	18.7	93	n.	2	0.9	.....	.....	10 s	.....	n.	0.84	21.3	threatening.	W. H. Ray.
Canby, Fort, Washington Ter	29.93	760.2	30.13	765.3	53.0	11.7	100	n.	2	0.9	.....	.....	fg.	.....	.....	0.09	2.3	dense fog	O. D. Stewart.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	69.0	20.6	100	ne.	12	5.4	.....	.....	10 s	.....	n.	0.16	4.1	cloudy	A. R. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	66.0	18.9	100	ne.	11	4.9	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	Wm. Bolton.
Cape Mendocino, California	29.25	742.9	29.94	760.5	56.3	13.5	73	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.93	760.2	29.95	760.7	69.5	20.8	76	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.85	758.2	29.91	759.7	71.0	21.7	100	n.	8	3.6	.....	.....	10s; fg	.....	n.	0	0	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.05	763.3	64.0	17.8	90	n.	6	2.7	.....	6 cs	fg.	ne.	.....	c	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.07	763.8	61.0	16.1	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	23.93	607.8	29.95	760.7	28.1	— 2.2	80	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.28	743.7	29.99	761.7	58.5	14.7	84	sw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.06	763.5	30.08	764.0	67	19.4	100	e.	6	2.7	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.38	746.2	30.04	763.0	67.0	19.4	84	w.	1	0.4	.....	1 cs	0	.....	.....	0.11	2.8	clear	L. Dunne.
Cleveland, Ohio	29.26	743.2	30.00	762.0	58.2	14.6	86	se.	5	2.2	.....	8 k	0	w.	.....	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.16	740.7	30.02	762.5	64	17.8	93	se.	3	1.3	.....	.....	10 n	.....	w.	0.10	2.5	light rain	D. Cuthbertson.
Concho, Fort, Texas	28.05	712.5	30.00	762.0	61.4	16.3	100	ne.	9	4.0	.....	.....	10 n	.....	.....	0.06	1.5	light rain	C. E. King.
Custer, Fort, M. T	26.88	682.7	30.12	765.0	31	— 0.6	88	ne.	4	1.8	.....	.....	10 n	.....	.....	0.11	2.8	light snow	T. Gibson.
Davenport, Iowa	29.38	746.2	30.04	763.0	46	7.8	83	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	30.02	762.5	57.0	13.9	83	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.11	764.8	48.5	9.2	68	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	D. Moore.
Deadwood, Dakota	25.29	642.4	29.97	761.2	30.5	— 0.8	78	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	63.5	17.5	100	e.	11	4.9	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	F. W. Mixer.
Denver, Colorado	24.64	625.8	29.90	759.4	28.0	— 2.2	92	s	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	F. M. Neal.
Des Moines, Iowa	29.22	742.2	30.14	765.5	41	5.0	82	n.	6	2.7	.....	.....	10 s	.....	n.	0.45	11.4	cloudy	F. W. Conrad.
Detroit, Michigan	29.29	744.0	30.00	762.0	58.0	14.4	93	e.	1	0.4	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.47	697.7	30.10	764.5	39	3.9	82	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.23	5.8	thund'r st'm	J. H. Bryce.
Dubuque, Iowa	29.34	745.2	30.06	763.5	44.2	6.8	83	nw.	5	2.2	.....	.....	10 s	.....	n.	0.15	3.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.15	765.8	35	1.7	79	nw.	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.26	768.6	30.33	770.4	49.0	9.4	86	ne.	10	4.5	.....	.....	10 s	.....	sw.	0	0	cloudy	D. O. Murphy.
Elliott, Fort, Texas	27.31	693.7	30.10	764.5	41	5.0	100	n.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.24	666.5	29.98	761.5	57.8	14.3	40	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.28	743.7	30.01	762.2	62	16.7	87	s.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.35	745.5	30.02	762.5	40.0	4.4	94	n.	11	4.9	.....	.....	10 n	.....	n.	0.29	7.4	light rain	George Heathcote.
Galveston, Texas	29.92	760.0	29.96	761.0	76.9	24.9	85	se.	2	0.9	.....	0	7 ks	.....	s.	0.08	2.0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.29	744.0	29.96	761.0	55.0	12.8	96	se.	2	0.9	.....	.....	fg	.....	.....	0	0	dense fog	Wm. H. Fallon.

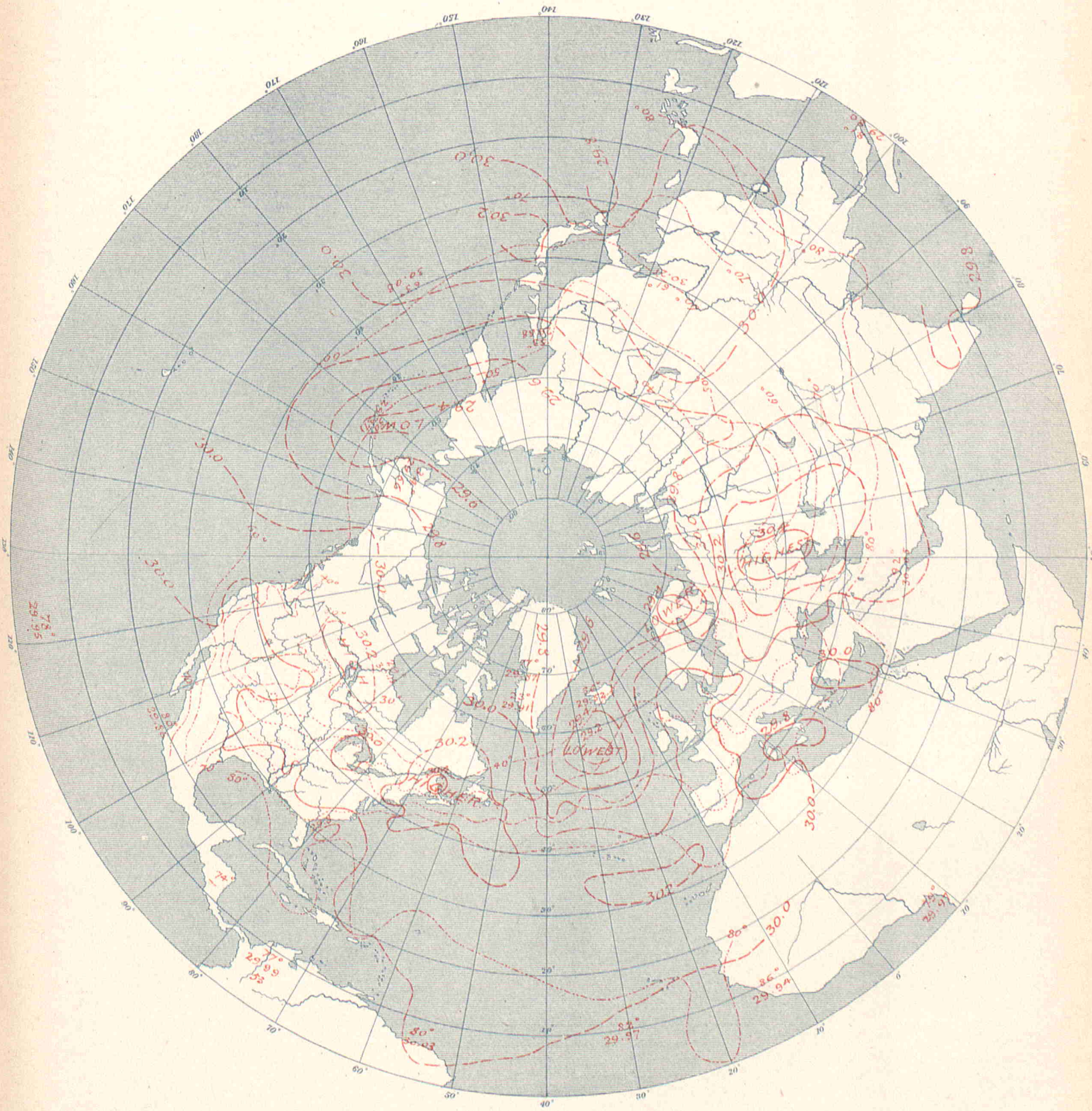
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.19	639.8	29.89	759.2	49.5	9.7	41	n.	3	1.3		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.96	761.0	29.97	761.2	72.0	22.2	97	e.	13	5.8		4 c	fg.	sw.		0.16	4.1	fair	R. M. Crawford
Helena, Montana	25.75	654.0	30.05	763.3	37	2.8	82	sw.	12	5.4			10 n			blank	blank	light snow	I. H. Jones.
Huron, Dakota	28.67	728.2	30.10	764.5	30.8	— 0.7	81	se.	8	3.6		0	5 s		se.	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.20	741 7	30.00	762.0	64.0	17.8	90	nw.	4	1.8			10 s		nw.	0.75	19.0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.94	760.5	29 97	761.2	75.0	23.9	85	calm	0	0		1 cs	1 k		s.	inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	29.87	758.7	29.91	759.7	69.3	20.7	84	nw	8	3.6		1 cs	8 s		nw.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.42	747.3	30.09	764.3	46.0	7.8	93	nw.	6	2.7			10 s		nw.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.89	759.2	29.91	759.7	78	25.6	74	calm	0	0		5 cs	2 k	w.		0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	69	20.6	100	e.	8	3.6		0	fg;1k		e.	0.04	1.0	clear	Wesley Blake.
Knoxville, Tennessee	29.04	737.6	30.08	764.0	61.3	16.3	98	calm	0	0			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.09	764.3	38.3	3.5	89	nw.	12	5.4			10 s		nw.	0.30	7.6	cloudy	S. C. Emery.
Leavenworth, Kansas	29.23	742.4	30.13	765.3	44	6.7	93	n.	1	0.4		5 cs	4 s		n.	0.01	0.3	cloudy	T. S. Outram.
Lewiston, Idaho	29.26	743.2	30.11	764.8	46.0	7.8	68	nw.	1	0.4			10 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.68	753.9	30.00	762.0	69.0	20.6	93	nw.	2	0.9			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	55.4	13.0	93	nw	2	0.9			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.44	747.8	30.01	762.2	65.5	18.6	91	w.	2	0.9		6 c	4 ks	w.	w.	0.68	17.3	cloudy	L. M Dey.
Lynchburg, Virginia	29.40	746.7	30.09	764.3	64.0	17.8	84	calm	0	0			10 s		e.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.30	744 2	29.97	761.2	47.1	8.4	86	se.	2	0.9			10 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.90	759.4	29.91	759.7	74.0	23.3	97	e.	10	4.5			10 s		e.	0.39	9.9	cloudy	William Daly.
Maginnis, Fort, Montana	25.62	650.7	30.16	766.1	26	— 3.3	88	nw.	8	3.6			10 n		nw.	0.30	7.6	light snow	F. Burke.
Marquette, Michigan	29.34	745.2	30.08	764.0	40.0	4.4	89	n	6	2.7			10 n		nw.	0.53	13.5	light rain	J. Gilligan.
Memphis, Tennessee	29.65	753.1	29.99	761.7	65	18.3	100	nw.	5	2.2			fg.			0	0	dense fog	D. T. Flannery.
Milwaukee, Wisconsin	29.24	742.7	30.00	762.0	51.0	10.6	93	nw.	2	0.9			10 s		nw.	0	0	cloudy	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	63	17.2	84	n.	2	0.9		0	sk.			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.79	756.7	30.02	762.5	63	17.2	78	ne.	2	0.9		0	0			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.22	742.2	30.24	768.1	32	0.0	78	calm	0	0			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.08	611.6	30.42	772.7	46.7	8.2	100	sw.	28	12.5			fg.		sw.	0.03	0.8	dense fog	S. W. Beall.
Nashville, Tennessee	29.43	747.5	30.01	762.2	63.0	17.2	93	nw.	1	0.4			fg.			0	0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.21	767.3	55.8	13.2	95	ne.	12	5.4			10 n			0.02	0.5	light rain	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	57.8	14.3	100	n.	5	2.2			10 n		n.	0.09	2.3	light rain	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	72.5	22.5	82	nw.	4	1.8		0	0			0	0	clear	M. Herman.
New York, New York	30.03	762.7	30.21	767.3	59.9	15.5	94	ne.	11	4.9			10n;fg			0.02	0.5	light rain	H. J. Penrod.
Norfolk, Virginia	30.03	762.7	30.06	763.5	67.8	19.9	100	ne.	6	2.7			fg.			0.10	2.5	dense fog	Wm. Davis.
North Platte, Nebraska	27.07	687.6	30.03	762.7	31.1	— 0.5	81	s.	9	4.0		0	0			0.15	3.8	clear	E. F. Brady.
Olympia, Washington T'y.	30.08	764.0	30.12	765.0	49.0	9.4	93	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.97	735.8	30.17	766.3	39.8	4.3	89	n.	1	0.4		0	8s;fg		nw.	0.06	1.5	cloudy	A. Pollak
Oswego, New York	29.75	755.6	30.08	764.0	58.5	14.7	62	se.	7	3.1			10 s		sw.	inap.	inap.	cloudy	J. G. Linsley.
Palestine, Texas																			L. M. Pindell.
Pensacola, Florida	29.95	760.7	29.98	761.5	64.2	17.9	63	nw.	4	1.8		0	hz.			0	0	clear	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.16	766.1	63.5	17.5	100	ne.	10	4.5			fg.			0.01	0.3	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.65	448.3	29.93	760.2	10	—12.2	73	w.	50	22.4		0	3 ks		w.	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.24	742.7	30.06	763.5	62.3	16.8	84	calm	0	0			fg.			0	0	dense fog	G. O Schaeffer.
Port Huron, Michigan	29.28	743.7	29.97	761.2	48.7	9.3	96	e.	2	0.9			10 s			0.07	1.8	cloudy	M. H. Perry
Portland, Maine	30.24	768.1	30.29	769.4	53.0	11.7	72	ne.	5	2.2		7 c	0			0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.06	763 5	30.14	765.5	50.0	10.0	93	n.	2	0.9			10 n		n.	0.01	0.3	light rain	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.94	760.5	36.0	2.2	75	n.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.23	767 8	30.26	768.6	54.5	12.5	96	ne.	9	4.0			fg.		ne.	0.10	2.5	dense fog	C. N. Kitchel.
Red Bluff, California	29.60	751.8	29.96	761.0	56	13.3	45	n.	3	1.3		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	71.0	21.7	94	se.	5	2.2		0	2 s		se.	0	0	clear	Fred. Belford.
Rochester, N. Y	29.39	746.5	30.06	763.5	52.5	11.4	94	se.	9	4 0			10 s			0	0	cloudy	
Roseburg, Oregon	29.59	751.6	30.15	765 8	39.4	4.1	87	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.94	760.5	53.7	12.1	64	nw.	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.45	748.0	30.07	763.8	59.7	15.4	98	ne.	7	3.1			10ksjsk		ne.	0.36	9.1	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.62	752.3	29.66	753.4	34	1.1	89	s	10	4.5			10 s			0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.25	742 9	30.12	765.0	34.0	1.1	78	w.	1	0.4		0	1 s			0.08	2.0	clear	P. F Lyons.
St. Vincent, Minnesota	29.31	744.5	30.21	767.3	32.5	0.3	94	sw.	1	0.4			10 n			0.08	2.0	light snow	C. B. Dilley
Salt Lake City, Utah	25.60	650.2	30.00	762.0	43	6.1	60	se.	4	1.8			10 s			0	0	cloudy	J. Craig.
San Diego, California	29.90	759.4	29.97	761.2	60.0	15.6	81	s.	3	1.3			10s;fg			0	0	cloudy	F. R. Day.
Sanford, Florida	29.80	756.9	29.85	758.2	72.0	22.2	87	nw.	12	5.4		3 cs	0	n.		0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.30	744.2	29.99	761.7	60	15.6	81	sw.	5	2.2			fg.			0	0	dense fog	B. F. Heugh.
Sandy Hook, New Jersey	30.17	766.3	30.20	767.1	61.0	16.1	100	e.	10	7.2			10 n			0.01	0.3	light rain	B. A. Blundon
San Francisco, California	29.92	760.0	29.99	761.7	53.5	11.9	90	w.	6	2.7		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	29.84	757.9	29.93	760.2	68.5	20.3	87	n.	10	4.5			10 ks		ne.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	30.15	765.8	33	0.6	88	n.	12	5.4			10 s		n.	0	0	cloudy	S. W. Morrison.
Shreveport, Louisiana	29.69	754.1	29.93	760.2	67.5	19.7	88	w.	1	0.4			10 s		w.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W M. Mattingly.
Sitka, Alaska	30.00	762.0	30.07	763.8	50	10.0	90	nw.	19	8.5			10 n		nw	1.70	43.2	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.04	763.0	63.7	17.6	93	calm	0	0			10 s		w	0.15	3.8	cloudy	J. B. Campbell
Smithville North Carolina	29.84	757.9	29.88	758.9	71.5	21.9	92	ne	13	5.8			9 ks		ne.	inap.	inap.	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.13	765.3	33	0.6	37	calm	0	0		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.37	746.0	30.06	763.5	57.8	14.3	91	nw.	5	2.2			10 s		nw.	0.27	6.9	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.96	684.8	29.99	761.7	60.0	15.6	93	w	1	0.4			fg.			inap.	inap.	dense fog	Louis Dorman.
Tatoosh Id., Wash. Ter	30.05	763 3			50.2	10.1	94	e.	18	8.0		0	2 s		e.	0.02	0.5	clear	R. Connor.
Thomas, Camp, Arizona					38	3.3	47	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.27	743.4	29.97	761.2	58.7	14.8	85	e.	2	0.9			10s;fg			0.42	10.7	cloudy	A. Buell.
Unalaska, Alaska	29.35	745.5	29.37	746.0	50	10.0	86	s.	34	15.2			10 n		s.	1.20	30.5	light rain	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	66.0	18.9	78	calm	0	0		0	hz.			0	0	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.01	762.2	30.13	765.3	66.1	18.9	94	ne.	2	0.9			10s;fg			0.07	1.8	threatening	T. B. Harrison.
West Las Animas, Colorado	25.97	659.6	29.90	759.4	39.5	4.2	92	ne.	4	1.8			10 s		e.	0	0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	29.87	758.7	29.93	760.2	71.0	21.7	84	ne.	8	3.6			10 n			0.09	2.3	light rain	Samuel A. Haney.
Yankton, Dakota	28.78	731.0	30.11	764.8	31.7	— 0.2	96	w.	2	0.9		0	0			0.06	1.5	clear	E. H. Thompson.
Yuma, Arizona	29.69	754.1	29.84	757.9	59.9	15.5	81	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		n.			3	2 cs	5 ks		ne.	0.19	4.8	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.06	560.3			53.2	11.8	78	calm	0	0		2cs;0	0	ne.		0.039	1.0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.95	760.7	77.9	25.5	80	n.	4	1.8		0	2 s			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	20.7	82	e.			2	5 ks	4 k	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	77	25.0	89	s.			2	0	6 k		s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	90	e.			1	ck	ks		e.	2.33	59.2	cloudy	Earl Flint.
York Factory, B. A.	30.09	764.3	30.15	765.8	28.5	— 1.9	94	sw.	6	2.7		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 40° 05′, E. 24° 52′	30.03	762.7	68	20.0	74	e.			1		3	ese.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.14	765.5	76	24.4	93	sse.			2		3	sse.						d. clouds.
H. M. S. Flamingo, N. 46° 03′, W. 55° 40′	30.30	769.6	54	12.2	93	ne.			2		0					2	var.	blue sky.
H. M. S. Himalaya, N. 49° 56′, W. 4° 38′			58	14.4	82	ene.			3		5	e.				1	e.	foggy.
H. M. S. Iris, Alexandria, Egypt	30.00	762.0	80	26.7	74	n.			2		4							blue sky.
H. M. S. Orontes, N 15° 20′, W. 23° 21′	30.00	762.0	79.5	26.4	?	ene.			4		10					4	nne.	overcast.
H. M. S. Opal, Fernando Po, W. Africa	29.96	761.0	80	26.7	78	nne.			1		2	ssw.						d. clouds.
H.P. M. S. Duoro, N. 1° 38′, E. 7° 27′	29.97	761.1	78.8	26.0	100	nnw.			1		10			3 h'r	3 h'r			showery.
U. S. Navy Yard, Portsmouth, N. H *	30.24	768.1	54	12.2	87	ne.	7	3.1			8		ne.	0	0			cloudy.
U. S. S. Alliance, N. 41° 45′, W. 70° 42′	30.28	769.1	56	13.3	100	ene.			3		10			light	light	mod	e.	overcast.
U. S. S. Jamestown, N. 25° 35′, W. 60° 30′	30.13	765.3	81	27.2	96	ne.			4		2		ne			sm'h	ne.	fair
U. S. S. Kearsarge, N 36° 13′, W. 4° 52′	30.09	764.3	69	20.6	80	w.			4		2		w.			sm'h		fair.
U. S. S. Lancaster, Malaga, Spain	30.08	764.0	70	21.1	75	nw.			5		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I			58	14.4	100	nne.			2		10		nne.			sm'h		drizzling.
U. S. S. Powhatan, Halifax, N. S	30.36	771.1	52	11.1	86	calm			0		8							overcast.
U.S. S. Quinnebaug, Leghorn, Italy	29.93	760.2	68	20.0	65	ne.			1		5		ne.					fair.
U. S. S. Saratoga, Verplank's Point, N.Y	30.21	767.3	62	16.7	88	nnw.			2		10		nnw.	light	light	sm'h		cloudy.
U. S. S. Swatara, N. 37° 30′, W. 70° 11′	30.23	767.8	76	24.4	91	sse.			3		2		sse.	0	0	long	s.	clear.
U. S. S. Vandalia, off Sandy Hook, N. J †	30.15	765.8	63	17.2	94	ne.			3		10					mod.	e.	foggy.
S. S. British Crown, N. 49° 34′, W. 41° 42′ †	29.85	758.2	53	11.7		nnw.			6		6		nnw.	4 h'r	4 h'r	r'gh	nw.	squally.
S. S. British Prince, N. 48° 13′ W. 46° 30′			52	11.1		n.			4		4		nw.	0	0	mod.	nnw.	clear
S. S. Ohio, N. 51° 26′ W. 13° 58′ †	29.72	754.9	58	14.4	94	s.			5		9		s.	0	0	sm'h	s.	cloudy.
S. S. Nova Scotian, N. 52° 20′, W. 21° 23′	29.39	746.5	56	13.3		sw.			4		8		wsw.			mod.	sw.	showery.
S. S. Prussian, Boston, Mass	30.28	769.1	56	13.3														foggy.
S. S. Scandinavian, N. 52° 05′, W. 30° 46′	29.41	747.0	50	10.0		w.			6		5 k;n		w.	4 h'r	4 h'r	high	w.	showery.
S. S. Sardinian, N. 50° 30′, W. 58° 35′	30.32	770.1	40	4.4		n.			2		1		n.	0	0	sm'h		clear
S. S. Ailsa, Kingston, Jamaica, W.I			87	30.6	100	calm			0		2		ene.	0	0	sm'h		fine.
S. S. Avilla, N. 37° 55′, W. 74° 00′ *†	30.15	765.8	69	20.6		ene.			4		0			0	0		ne.	
S. S. Assyria, N 40° 34′, W. 65° 53′	30.24	768.1	72	22.2	95	e.			3		fg			0	0	high	e.	dense fog.
S. S. Dorian, N. 37° 05′, W. 12° 17′	30.19	766.8	65	18.3		calm			0		2			0	0	sm'h		fine.
S. S. Furnesia, New York, N.Y †	30.22	767.6	69	20.6	90	e.			1									rainy.
S. S. Carroll, Port Hawkesbury, C.B					88	sse.			1		2		sse.	rain	rain			fine.
S. S. Jerome, N. 33° 30′ W. 68° 05′ *†	30.11	764.8	78	25.6		se.			4		7		se.	0	0	mod.	se.	cloudy.
S. S. Llandaff City, N. 45° 56′, W. 49° 00′ †	30.29	769.4	47	8.3		n.			5		7		wnw.	0	0	mod	con.	fine.
S. S. Gallia, N. 41° 25′, W. 60° 57′			71	21.7	95	ne.			4							mod	e.	misty.
S. S. Pavonia, N. 45° 07′, W. 44° 22′ *	30.06	763.5	61	16.1	77	nnw.			4		8		n.	0	0	mod.	nnw.	
S. S. Samaria, N. 42° 50′, W. 58° 15′ *	30.29	769.4	65	18.3		nnw.			5		4		nnw.	3 h'r	3 h'r	mod.	n.	cloudy.
S. S. Canada, N. 48° 11′, W. 43° 45′	30.03	762.8	48.2	9		nw.			5		10			0	0	h'vy	nw.	covered.
S. S. Wisconsin. N 44° 13′, W. 55° 50′ *	30.30	769.6	57	13.9		ene.			2		10		ene.	0	0	sm'h		cloudy.
S. S. Bohemia, Hamburg, Germany						ene.			3		8		ne.	0	0			cloudy.
S. S. Gellert, Hamburg, Germany			56	13.3	63	w.			2		9?		w.	0	0			fair?
S. S. Lessing, N. 44° 58′, W. 50° 50′			60	15.6		n.			4		1		n.	½ h'r	½ h'r	mod.	nnw.	clear.
S. S. Rugia, N. 50° 45′, W. 18° 10′	29.52	749.8	59	15.0		sw.			6		10		sw.	5 h'r	5 h'r	r'gh	sw.	misty.
S. S. Silesia, New York, N. Y.	30.22	767.6	61.5	16.4		ne.			3		10			6 h'r	6 h'r			drizzling.
S. S. Westphalia, Havre, France			57	13.9	87	s.			1		10		w.	1 h'r	1 h'r			foggy.
S. S. Nessmore, N. 46° 31′, W. 39° 36′	29.73	755.1	57	13.9	94	nnw.			5		10		wnw.	0	0	r'gh	w.	cloudy.
S. S. Bulgarian, N. 51° 28′, W. 11° 32′						ssw.			4		10		ssw.	0	0	light	sw.	cloudy.
S. S. Archimedes, N. 51° 58′, W. 6° 06′	30.01	762.2				e.			5		10		se.	0	0	sm'h		hazy.
S. S. Hevelius, Liverpool, Eng †	30.08	764.0	53	11.7		sse.			4				sse.	4 h'r	4 h'r			overcast.
S. S. Rosse, N. 40° 12′, W. 11° 50′ *	30.09	764.3	68	20.0		s.			3		6?		sw.	1 h'r	1 h'r	sm'h		clear?
S. S. Rio Grande, N. 32° 00′, W. 79° 10′ †	29.86	758.4	77	25.0		n.			6		9		n.	1 h'r	1 h'r	h'vy	nne.	rainy.
S. S. Lampassas, N. 26° 35′ W. 87° 15′			80	26.7		se.			2					0	0	sm'h		clear.
S. S. Chalmette, New York, N.Y †	30.17	766.3	60	15.6		ene.			3		10			11 h'r	11 h'r			foggy.
S. S. New York, N. 32° 23′ W. 77° 45′ *†	29.80	756.9	78	25.6		ne.			7		10		ne.	0	0	hv'y	ne.	cloudy.
S. S. Lone Star, N. 34° 44′, W. 75° 50′ *†	29.90	759.4	74	23.3		se.			6		5		sse.	20 h'r	20 h'r	h'vy	e.	squally.
S. S. Alleghany, Boston, Mass. †	30.33	770.4	60	15.6		e.			2		10		e	light	light			dense fog.
S. S. Archimede, New York, N. Y †	30.22	767.6	74	23.3		e.			3		7		e.	2 h'r	2 h'r			foggy.
S. S. City of Merida, N. 40° 20′ W. 74° 00′			80	26.7		se.			2		10		se.	1 h'r	1 h'r	cross	e.	foggy.
S. S. Cienfuegos, N. 30° 16′, W. 75° 19′ *	29.87	758.7	81	27.2		s.			6		7		sse.	2½ hr	2½ hr	long	sse.	cloudy.
S. S. Denmark, London, Eng †	30.08	764.0	60	15.6		e.			3		7?		e.	0	0			clear.?
S. S. Egypt, N. 51° 23′, W. 16° 24′	29.61	752.1	57	13.9		s.			5		10		sw.	3 h'r	3 h'r	mod.	s.	misty.
S. S. Grecian, N. 53° 51′, W. 47° 26′	30.05	763.3	41	5.0	74	n.			5		10		n.	0	0	mod.	nne.	cloudy.
S. S. England, N. 41° 45′, W. 59° 22′	30.20	767.1				n.			4		hz			0	0	sm'h		hazy.
S. S. Erin, London, Eng			54	12.2		se.			3		4		e.	4 h'r	4 h'r			foggy.
S. S. Greece, N. 48° 29′, W. 24° 54′	29.71	754.6	55	12.8	81	nw.			7		4		nw.	0	0	mod.	nw.	d. clouds.
S. S. Holland, N. 43° 28′, W. 48° 43′	30.17	766.3	62	16.7		nne.			5		7		nne.	3 h'r	3 h'r	sm'h	nne.	fair.
S. S. Donau, N. 40° 30′, W. 71° 38′	30.22	767.6				nne.			1		10					sm'h	s.	foggy.
S. S. Elbe, N. 49° 45′ W. 7° 02′	30.02	762.6	58.1	14.5	100	se.			2		2		se.	0	0	sm'h	nw.	clear.
S. S. Hohenstaufen, N. 49° 58′ W. 2° 32′	30.05	763.3	59.0	15.0		ene.			2		6			0	0	sm'h		hazy.
S. S. Orinoco, N. 34° 25′, W. 66° 54′			78	25.6		se.			2		8		s.	1 h'r	1 h'r	h'vy	s.	cloudy.
S. S. Neckar, N. 50° 27′, W. 25° 04′	29.48	748.8	57.0	13.9	94	var.			3–6		7		var.	0	0	mod.	var	fair.
S. S. Ohio, N. 36° 21′, W. 39° 02′	30.11	764.8				nne.			4		8?		nne.	2 h'r	2 h'r	mod.	nne.	clear?
S. S. Rhein, N. 47° 16′ W. 36° 24′	29.85	758.2				w.			6		7		nw.	0	0	cross	nw.	fair.
S. S. Strassburg, off Windmill Point, Va	30.10	764.5	68.5	20.3	97	ne.			1		10							foggy.
S. S. City of Augusta, Savannah, Ga †	30.00	762.0				nne.			2		10		nne.					cloudy.
S. S. Muriel, Saint Thomas, W. I.	29.96	761.0	83	28.3		e.			2		0			0	0	sm'h		clear.
S. S. Rhynland, Antwerp, Belgium	30.00	762.0	58	14.4		n.			2		2		nnw.	0	c			clear.
S. S. Pennland, N. 48° 45′, W. 37° 55′			55	12.8	93	nnw.			6		7		nw.	8 h'r	8 h'r	mod.	nnw.	fair.
S. S. Vaderland, N. 45° 20′, W. 49° 15′	30.22	767.6	56	13.3		ne.			5		3		ne.	0	0	light	nw.	clear.
S. S. Waesland, N. 49° 02′, W. 36° 12′	29.77	756.1	57	13.9		nw.			8		6		nw.	1 h'r	1 h'r	high	wnw.	squally.
S. S. Leerdam, N. 49° 39′, W. 29° 48′ *	29.60	751.8	57.9	14.4	84	nw.			7		4		nw.	1 h'r	1 h'r	7	w.	squally.
S. S. Schiedam, N. 41° 36′, W. 64° 33′	30.21	767.3	66.9	19.4	96	se.			4		10			0	0	sm'h		foggy.
S. S. Zaandam, N. 40° 14′ W. 66° —	30.28	769.1	74.8	23.8	90	e			3		8		e.	0	0	high	e.	cloudy.
S. S. Caracas, N. 34° 52′, W. 71° 39′ *†	30.11	764.8	78	25.6	95	sse.			6		5		sse.	½ h'r	½ h'r	r'gh	sse.	hazy.
S. S. W. A. Scholten, New York, N. Y	30.20	767.1	64.4	18.0	90	n.			1		10		ne.	12 h'r	12 h'r			raining.
S. S. Valencia, LaGuayra, Venezuela *†	29.93	760.2	83	28.3	81	e.			3		4		ese.	0	0	light	ene.	fair.
S. S. State of Georgia, N. 54° 25′, W. 24° 23′	29.14	740.1	52	11.1		wsw.			6		8		wsw.	h'vy	h'vy	mod.	wsw.	clearing.
S. S. State of Indiana, N. 50° 14′, W. 42° 15′ *†	29.75	755.6	47	8.3		n.			5		4		n.	4 h'r	4 h'r	r'gh	nw.	showery.
S. S. State of Nebraska, N. 40° 24′ W. 69° 59′ *†	30.18	766.6	61	16.1		e.			2		5		e.	0	0	sm'h		dense fog.
S. S. Thingvalla, New York, N. Y †	30.17	766.3				ne.			3		8?		ne.	5 h'r	5 h'r			clear?
S. S. Otranto, N. 46° 00′, W. 48° 47′	30.32	770.1	52	11.1		w.			4		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Romano, New York, N. Y			68	20.0		e.			2		fg.							
S. S. Salerno, N. 50° 01′, W. 23° 41′ *†	29.55	750.6	58	14.4		w.			4		4		w.	0.5	13.	rg'h	w.	fair.
S. S. Ontario, Inistrahull Island, Ireland			53	11.7		s.			4		6		ssw.	0	0	con.	sw.	gloomy.
S. S. Dominion, N. 55° 26′, W 31° 38′ *†	29.22	742.2	48	8.5		n.			4		10		n			mod	sw.	cloudy.
S. S. Quebec, Montreal, Canada			50	10.0		n.			1		10		sw.	0	0			overcast.
S. S. Texas, Liverpool Bay, Eng. *†	30.05	763.3	54	12.2	87	se.			4		hz			0	0	sm'h		hazy.
S. S. Lake Huron, N. 55° 32′, W. 7° 56′	29.93	760.2	49	9.4		se.			4		0			0	0	long	wnw.	clear.
S. S. Lake Manitoba, Cape Magdaleine, Quebec	30.36	771.1	42	5.6		calm			0					0	0	sm'h		clear.
S. S. Olbers, N. 36° 59′, W. 71° 34′	30.17	763.3	76.5	24.7	98	se.			3		4		e.			light	se.	hazy.
S. S. Daniel Steinmann, N. 42° 25′, W. 68° 43′ †	30.28	769.1	60	15.6		ne.			2		10			0	0	long	ese.	misty.
S. S. Adriatic, N. 40° 29′, W. 72° 00′ *†	30.16	766.1	68	20.0		ne.			2				n.			mod.		foggy.
S. S. Celtic, N. 48° 38′, W. 30° 40′ †	29.68	753.9	61	16.1		nw.			6		5		n.	sh'rs	sh'rs	h'vy	w.	squally.
S. S. Iowa, off Point Lynas, Eng †	30.03	762.7	64	17.8		e.			3		10		e.	0	0	sm'h		misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bk. Arda, N. 24° 14′. W. 32° 40′						se.			1		2		s.	0	0	mod	se.	clear.
Bk. Alpheus Marshall, N. 1° 07′, W 21° 09′ *†	29.92	760.0	77	25.0	95	se.			3		3		se.	0	0	light	se.	clear.
Bk. Ariadne, N. 58° 46′, W. 13° 05′	29.70	754.4	53	11.7	93	sse.			5		10		ssw.	2 h'r	2 h'r	cross	sse.	cloudy.
Bg. Abbie Clifford, N. 24° 00′, W. 60° 43′ †	30.16	766.1	82	27.8		ene.			5		2		e.	0	0	mod.	se.	clear
Schr. Arthur Burton, Charleston, S. C.†	29.97	761.2				ne.			5		10		ne.	0	0	sm'h		misty.
Schr. Abbie H. Gheen, Baltimore, Md.			70	21.1		calm			0									clear.
S. S. Antonio Lopez, Cadiz, Spain *	30.12	765.0	66	18.9	79	nw.			4	3 0				0	0			clear.
Schr. Adda Doane, N. 17° 18′, W. 55° 12′ *†	30.03	762.7				e.			4		2		e.	1 h'r	1 h'r	mod.	e.	clear.
Bg. Belle of the Bay, N. 28° 33′, W. 94° 41′†	29.91	759.7				ese.			1		3		ene.	0	0	sm'h	e.	clear.
S. S. Benledi, N. 37° 30′, E. 7° 15′ *	29.81	757.2	72	22.2	85	nnw.			4		9		wnw.	6 h'r	6 h'r	r'gh	wnw.	raining.
S. S. Burswell, N. 36° 15′, W. 3° 46′ *†	30.09	764.3	77	25.0		wsw.			3		2		w.	0	0	sm'h		clear.
Bk. Ceylon, N. 8° 38′. W. 30° 35′†	29.97	761.2	82	27.8	91	n.			2		7		se.	light	light	long	sse.	squally.
Schr. Clotilde, N. 25° 45′, W. 78° 03′†	29.90	759.4	82	27.8		sw.			4		10		sw.	1 h'r	1 h'r	sm'h	sw.	cloudy.
Schr. C. R. Flint, Demerara, British Guiana †	29.96	761.0	81	27.2		e.			1		3		e.	0	0			clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I.*†	29.98	761.5	83	28.3	83	se.			1		5		e.	4 h'r	4 h'r			fair.
Bk. Diamant, N. 49° 20′, W. 13° 50′	29.91	759.8	59.2	15.1	99	ssw.			5		6		sw.	8½h'r	8½h'r	4	ssw.	fair.
S. Dynomene, N. 9° 16′, W. 23° 30′	29.97	761.2	80	26.7	91	calm			0		3			mod.	mod.	light	s.	d. clouds.
S. E. J. Spicer, N. 42° 45′, W. 37° 20′	30.02	762.5	69	20.6	95	wsw.			5		5		wnw.	0	0	mod.	var.	fair.
Bk. E. D. Bigelow, Galveston, Texas†	29.91	759.7	80	26.7		ne.			2					0	0			fine.
S. Festina Lente, N. 48° 45′, W. 41° 32′	29.93	760.2	51	10.6		n.			5		8		n.	2 h'r	2 h'r	mod.	wnw.	raining.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass †	30.33	770.4	59	15.0	100	ene.			1		10			0.18	4.6			foggy.
S. Gatherer, N. 49° 03′, W. 14° 38′*	29.82	757.4	60	15.6	82				7		8		var.	¼ h'r	¼h'r	r'gh	var.	cloudy.
Bg. George, N. 33° 10′, W. 74° 20′*†	29.92	760.0	78	25.6		se.			6		8		se.	shr's	sh'rs	r'gh	se.	clearing.
Bk. Galeon, N. 20° 34′, W. 51° 06′ †	30.02	762.5	81	27.2		ene.			3		2		ene.	rain	rain	long	nne.	blue sky.
Bk. Hattie G. McFarland, Sandy Hook, N. J.†	30.24	768.1	60	15.6		ene.					10		ene.	10 h'r	10 h'r			stormy.
S. Hedwig, N. 20° 17′, W. 56° 03′	30.07	763.7	81.0	27.2	91	ne.			4		6		var.	½ h'r	½ h'r	2	ene.	fine.
Bk. Heinrich & Tonio, N. 48° 52′, W. 7° 25′†	30.03	762.7	62.5	16.9		se.			1–2		0			0	0	light	ne.	clear.
Schr. Isabel Alberto, N. 24° 19′, W. 82° 44′						sse.			2		9?		w.	0	0	sm'h		cloudy.?
Bk. Ibis, N. 37° 00′, W. 75° 00′*	30.12	765.0	66	18.9		ene.			3		9		se.	1 h'r	1 h'r	long	ese.	
Schr. Jennie N. Huddell, Wilmington, N. C.†	29.95	760.7	74	23.3	90	nne.			1		10		nne.	1 h'r	1 h'r			light rain.
Bk. John H. Pearson, N. 34° 45′, W. 10° 46′						ne.			1				n.	0	0	sm'h		cloudy
Schr. Jas. Slater, N. 36° 18′, W. 70° 25′†	30.15	765.8				sse.			4		2		s.	0	0	h'vy	sse.	hazy.
Bg. Josefa, Little Glace Bay, N. S.†	30.40	772.1				nne.			4		7		ne.	0	0			cloudy.
Bk. Lady Hincks, N. 38° 10′. W. 66° 54′ *†	30.20	767.1												sh'rs	sh'rs			
Bg. Lilian, N. 26° 20′, W. 68° 30′†	30.11	764.8	79	26.1		sse.			5		10		s.	2 h'r	2 h'r	r'gh	se;e.	squally.
Bg. L. & W. Armstrong, N. 39° 20′, W. 73° 00′*†	30.14	765.5				ese.			3					0	0	long	ese.	foggy.
S. S. Madrid, Kertch, Russia			68	20.0	89	s.			2		4		s.	3 h'r	3 h'r			fair.
Bk. Matthias, N. 38° 03′, W. 49° 03′*†	30.26	768.6	71.5	21.9		nnw.			2		4			0	0	3	ene.	fair.
Schr. Norena, N. 33° 00′, W. 68° 00′						se.			4		3		s.	0	0	mod.	sse.	fair.
Bk. National Eagle, N. 36° 31′, E 11° 40′						nw.			6		10		nw.	0	0	mod.	nw.	threatening.
S. S. Radnorshire, Malta, Mediterranean						sw.			4		2		s.	0	0			clear
Schr. Rollin Sanford, Milton, Fla.†	29.98	761.5				n			1					0	0			foggy.
Bg. Rising Sun, N. 19° 17′, W. 57° 36′ †	30.10	764.5	84	28.9		e.			5		1		e.	0	0	mod.	e.	clear.
Bk. Rosalie, N. 9° 57′, W. 27° 01′*†	29.98	761.5				calm			0		0			3 h'r	3 h'r	light	ese.	clear.
Bk. Saga, N. 52° 23′, E. 4° 00′*†	30.06	763.5	53	11.7		var.			1–6		3		var.	2 h'r	2 h'r.	mod.	nnw.	fair.
S. Salisbury, N. 41° 05′, W. 20° 07′	29.94	760.5	69.1	20.6	89	sw.			6		8 ku		sw.	1½h'r	1½h'r	r'gh	var.	cloudy.
Bk. Samuel B. Hale, N. 34° 13′, W. 33° 59′*†	30.20	767 1				s.			4				s.	0	0	long	nw.	clear
Bk. Sunbeam, N. 47° 30′, W. 19° 20′ †	29.73	755.1	61	16.1	94	s.			6		10		sw.	14 h'r	14 hr	mod.	ssw.	cloudy.
Bk. Scud, N. 13° 26′, W. 58° 52′*†	29.98	761.5	87	30.6		e.			5		2		e.	0	0	mod.	e.	fine.
S. St. Francis, N. 37° 52′, W. 52° 42′			74	23.3		nw.			7		10		nw.	1 h'r	1 h'r	mod.	nnw.	rainy.
Schr. Walter L. Plummer, N. 24° 39′, W. 33° 35′*†	30.08	764.0				se.			3		8		sse.			sm'h	ene.	fair.
S. S. Alps, N. 36° 10′, W. 74° 18′			75	23.9		ese.			1								se.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 24° 56′. W. 42° 17′	30.04	763.0	69	20.6	80	ese.			6		4	ese.				3	se.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.92	760.0	58	14.4	94	n.			2		7	nw.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.25	768.3	62	16.7	94	ne.			2		2							blue sky.
H. M. S. Tyne, S. 25° 15′. E. 3° 00′	30.20	767.1	66	18.9	89	se.			4		5	sse.				3	sse.	d clouds.
H. P.M.S. Rainha de Portugal, Landana, L. Guinea	29.98	761.4	77.9	25.5	80	ssw.			3		8		ssw.	0	0	3	ssw.	overcast.
U. S. S. Brooklyn, S. 37° 28′. W. 25° 10′*	29.96	761.0	53	11.7	73	sw.	15	6.7			8		sw.	0	0	mod.	sw.	fair.
U. S. S. Nipsic, Montevideo, Uruguay *	30.20	767.1	60	15.6	82	ene.			1		0					sm'h		clear.
S. S. Sirius, Rio de Janeiro, Brazil	30.04	763.0				calm			0		10			6 h'r	6 h'r			cloudy.
Bk. Aureola, Rio de Janeiro, Brazil†	30.00	762.0	80	26.7		nnw.			1		10		calm	2 h'r	2 h'r			overcast.
Bk. Adelaide, S. 13° 30′, W. 35° 44′*†	30.08	764.0	80	26.7		e.			5		1		e.	0	0	mod.	ese.	clear.
S. David Crocket, S. 40° 41′, W. 33° 52′ *	30.09	764.3	51.5	10.8	86	wsw.			3		7		wsw.	0	0	long	sw.	d. clouds.
Bk. E. L. Pettingill, S. 45° 02′, W. 61° 54′*†	30.10	764.5	55	12.8		nnw.			5		0			0	0	sm'h		clear.
Bk. Grey Eagle, S. 17° 56′, W 35° 05′*†	29.90	759.4				nnw.			1		1		nw.	0	0	short	ene.	clear
Bg. John Wesley, Natal, Brazil*†	29.90	759.4	80	26.7		ese.			2		3		ese.	0	0			fair.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.17	766.3				e.			2		0			0	0			clear.
S. S. Menadoza, S. 20° 46′, W. 33° 15′†	30.15	765.8				ssw.			1		2		ne.	12 h'r	12 h'r	sm'h	sw.	
Bk. Mohican, S. 38° 56′, E. 1° 07′	29.90	759.4	57	13.9		nne.			4		5		nne.	0	0	short	se.	fair.
Bk. Pilgrim, S. 8° 10′, W. 19° 00′*†	30.10	764.5				e.			3		4		e.	½h'r	½h'r	mod.	e.	clear.
Bgt. Willie, S 35° 00′, W. 56° 00′*†	30.20	767.1	60	15.6		e.			2		2		e.	0	0	sm'h		clear.
Bk. Childwall, S. 13° 59′, W. 33° 09′ *	29.97	761.2	84	28.9		e.			3		6		e.	0	0	light	ese.	fair.
Bk. Achille F, S. 20° —′, W. 35° —′†	30.03	762.7	70	21.1		sse.			1		10		se.	rain	rain	light	var.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.14	765.5	66	18.9	94	nw.			1		10	n.						raining.
H. M. S. Champion, Singapore, Malay Peninsula	29.80	756.9	81	27.2	87	e.			1		10							d. clouds
H. M. S. Flying Fish, N. 32° 57′, E. 127° 52′	29.91	759.7	71	21.7	62	ne.			6–7		6	ne.				7	ne.	squally.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.14	765.3	72	22.2		calm			0		2							blue sky
H. P. M. S. Tamega, Canton, China	30.08	764.0	77	25.0	88	se.			3		0			0	0			blue sky
U. S. Naval Hospital, Yokohama, Japan	30.24	768.1	62.5	16.9	97	nnw.			1		10		n.	0.21	5.3			raining.
U. S. S. Essex, Nagasaki, Japan	29.87	758.7	72	22.2	90	n.			4		8		n.					cloudy.
U. S. S. Hartford, Corinto, Nicaragua*	29.86	758.4	76	24.4	95	n.			2		5			3 h'r	3 h'r			fair.
U. S. S. Juniata, Canton, China	30.08	764.0	78	25.6	91	ssw.			1		0			0	0			clear.
U. S. S. Monocacy, Ross Island, Corea	30.12	765 0	69	20.6	70	nw.			1		5		nw.					fair.
U. S. S. Pensacola, Yokohama, Japan			66	18.9	89	wnw.			8		10		mod.	mod.				cloudy.
U. S. S. Ranger, Mare Island, Cal	30.01	762.2	58	14.4	88	sw.			2		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.19	766.8	65	18.3	100	nnw.			2		10		nnw.	1.90	48.3			raining.
S. S. Oceanic, N. 38° 55′, E. 167° 30′	30.08	764.0	63	17.2	89	wnw.			4		8			0	0	4	var.	fair.
S. S. City of Chester, Eureka, Cal.†	29.98	761.5	46	7.8	100	calm			0		fg.							foggy.
S. S Oregon, Columbia River, Oregon†	30.17	766.3	53	11.7	94	calm			0		10		ese.					smoky.
S. S. Ancon, San Francisco, Cal.†	29.96	761.0	55	12.8	81	wsw.			1		0			0	0			clear.
S. S. Orizaba, N. 33° 43′, W. 118° 15′ *†	29.98	761.5	64	17.8	67	se.			2		10		se.	0	0	sm'h	w.	cloudy.
S. S. Queen of the Pacific, near Portland, Oregon†	30.17	766.3	54	12.2	94	ne.			2		9			2 h'r	2 h'r			overcast.
S. S. Victoria, Oakland, Cal.†	29.90	759.4	54	12.2	88	w.			5		2		w.					fair.
S. S. City of Pekin, Hong Kong, China†	30.13	765.3	78	25.6	82	ne.			3		0			0	0			clear.
S. S. City of Tokio, N. 41° 10′, W. 176° 10′			61	16.1	82	wnw.			5		8		wnw.	0	0	small	wnw.	cloudy.
S.S. City of Rio de Janeiro, N. 38° 02′, W. 129° 10′†	30.13	765.3	62	16.7	94	n.			7		8		n.	0	0	r'gh	n.	hazy.
S. S. Colima, San Jose, Guatemala†	29.93	760.2	77	25.0	86	n.			3		8		n.	0	0	small	se.	cloudy.
S. S. Granada, N. 19° 45′, W. 105° 40′ †	29.86	758.4	80	26.7	87	calm			0		2		nw.	1 h'r	1 h'r	light	w.	clear.
S. S. San Blas, Panama, Panama†	29.89	759.2	79	26.1		nw.			3		3		nw.	0	0			clear.
S. E. B. Sutton, N. 4° 50′, W. 122° 00′*†	29.95	760.7	78	25.6	86	se.			4		2		se.	0	0	r'gh	var.	fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 3—North Pacific.—Continued.																		
S. Parker M. Whitmore, N. 37° 30′, W. 123° 00′*†	29.95	760.7	54	12.2	.....	calm	.....	.....	0	.....	fg.	.....	.....	0	0	long	nw.	foggy.
U. S. S. Palos, Canton, China	30.08	764.0	78	25.6	78	e.	.....	.....	1	.....	2	.....	calm	.....	.....	.....	.....	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	30.00	762.0	81.3	27.4	91	s.	.....	.....	2	.....	8	.....	.....	.....	.....	sm'h	.....	misty.
H. M. S. Magpie, S. 6° 05′, E. 106° 48′	29.88	758.9	82.5	28.1	79	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	2	ne.	blue sky.
H. M. S. Mutine, S. 20° 08′, W. 71° 56	30.04	763.0	61	16.1	.....	s.	.....	.....	1	.....	10	.....	.....	.....	.....	4	ssw.	overcast.
U. S. S. Nelson, Sydney, N. S. W.	29.58	751.3	54	12.2	81	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	63	17.2	89	se.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	29.96	761.0	58	14.4	88	se.	.....	.....	1	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
U. S. S. Onward, Callao, Peru *†	30.11	764.8	61	16.1	88	se.	.....	.....	2	.....	10	.....	se.	.....	.....	mod.	w.	cloudy
U. S. S. Wachusetts, Coquimbo, Chili*	30.03	762.7	57	13.9	94	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
S. S. Australia, Sydney, N. S. W.	30.04	763.0	65	18.3	100	w.	.....	.....	1	.....	1?	.....	w.	0	0	.....	.....	cloudy.?
S. S. City of New York, S. 26° 21′, W. 177° 09′†	30.00	762.0	69	20.6	75	wsw.	.....	.....	6	.....	2	.....	w.	0	0	h'vy	sw.	fair.
S. S. City of Sydney, S. 25° 15′, E. 176° 05′ *†	30.02	762.5	68	20.0	84	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	light	wsw.	cloudy.
Bk. Godeffroy, S. 33° 15′, W. 71° 55′	29.86	758.4	.....	.....	.....	s.	.....	.....	3	.....	10	.....	.....	8 h'r	8 h'r	long	ssw.	cloudy.
S. Sovereign of the Seas, S. 6° 39′, W. 104° 47′*†	30.14	765.5	74	23.3	90	ese.	.....	.....	5	.....	7?	.....	ese.	rain	rain	r'gh	sse.	overcast.?
S. Armenia, S. 27° 40′, W. 123° 40′ *	30.14	765.5	69	20.6	90	e.	.....	.....	4	.....	10	.....	.....	2 h'r	2 h'r	r'gh	se;s.	overcast.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	68	20.0	.....	se.	.....	.....	5	.....	8	.....	se.	.....	.....	mod.	se.	cloudy.
S. Storm King, S. 2° 02′, W. 122° 50′*†	29.99	761.7	.....	.....	.....	ese.	.....	.....	5	.....	1	.....	ese.	0	0	mod.	se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.97	761.2	78	25.6	91	calm	.....	.....	0	.....	5	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	30.00	762.0	77	25.0	95	sse.	.....	.....	1	.....	1	sse.	.....	.....	.....	3	sse.	showery.
H. M. S. Woodlark, Shat el Arab River, Turkey	30.05	763.3	91.5	33.1	51	nw.	.....	.....	2	.....	6	calm	.....	.....	.....	.....	.....	d. clouds.
Bk. Bore, S. 34° 54′ E. 27° 48′*†	30.32	770.1	76	24.4	.....	w.	.....	.....	4	.....	0	.....	.....	3 h'r	3 h'r	mod.	w.	clear.
S. Frank N. Thayer, S. 29° 54′, E. 40° 22′*†	30.04	763.0	76	24.4	86	nne.	.....	.....	5	5 cs	.....	wsw.	.....	0	0	mod.	nne.	d. clouds
Bk. Great Surgeon, S. 37° 06′, E. 74° 00′ *†	30.17	766.3	55	12.8	.....	ssw.	.....	.....	5	.....	4	.....	ssw.	3 h'r	3 h'r	long	ssw.	fair.
S. S. Galatia, Colombo, Ceylon, India†	29.80	756.9	83	28.3	87	wnw.	.....	.....	3	.....	6	.....	wnw.	3 h'r	3 h'r	mod.	wnw.	showery.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 13, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.8	70.5	21.4	80	se.			2		0			0	0	fair	Roziere.
Algiers			30.02	762.5	63.7	17.6	84	wsw.			3		4			1.898	48.2	pretty fair	Thève.
La Calle			29.89	759.2	66.2	19.0	81	nw.			3		5			0.768	19.5	pretty fair	Fonfrède.
Tunis			29.92	760.0	72.3	22.4	68	n.			2		2			0	0	fair	Delord.
Saida			30.11	764.8															Pérés.
Tebessa			30.03	762.7	64.4	18.0	71	sw.			2		4			0	0	fair	St. Martin.
Geriville					63.3	17.4	32	nnw.			1		1			0	0	very fair	Forfert.
Laghouat			30.07	763.8	70.9	21.6	22	n.			2		0			0	0	clear	Abraham.
Biskra			30.00	762.0	82.8	28.2	24	calm			0		2			0	0	fair	Gonzon.
Australian.																			
Adelaide, South Australia			30.18	766.6	56.0	13.3	62	calm	0	0			1			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	30.10	764.5	30.20	767.1	53.3	11.8	87	wsw.	5	2.2			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.1	30.08	764.0	58.6	14.8	63	ne.			3		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.36	745.8	30.13	765.3	57.9	14.4	63	ese.	1.3	0.6			10			0.008	0.2		Dr. Wierzbiski
Eperies	29.21	741.9	30.08	764.1	56.7	13.7	64	calm			0		10 s			0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28.60	726.3	30.00	762.1	61.2	16.2	65	sse.			2		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.10	764.4	52 9	11.6	84	ne.			2		3			0	0	fair	The Staff.
Lemberg	29.10	739.2	30.10	764.5	52.9	11.6	80	ne.			1		10			0.051	1.3		Dr. T. Stanecki.
Pola	29.89	759.2	30.00	762.0	63.9	17.7	57	e.			5		6			0	0		I. R. Hydrographic Office.
Szathmar	29.56	750.9	30.02	762.6	61.7	16.5	71	n.			2		6			0	0		Joseph Midlinszky, S. J
Szegedin	29.76	756.0	30.04	763.0	62.2	16.8	59	calm			0		8			0	0		Karl Stancel.
Trieste	29.93	760.3	30.03	762.8	65.3	18.5	32	ne.			4		0			0	0		Royal Academy.
Vienna	29.41	747.1	30.12	765.1	58.6	14.8	64	n.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.70	754.4	29.80	756.9	51.6	10.9	81	sse.	30	13.4			9			0.090	2.3	overcast	W. Boswell.
Armagh, Observatory	29.43	747.5	29.67	753.6	55.0	12.8	93	s.	18	8.0			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.90	759.4	55.0	12.8	81	se.	23	10.3			10					overcast	John Harnup.
Bolton, Sharples	29.40	746.7	29.94	760.5	53.9	12.2	80	s.	24	10.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.55	750.6	29.95	760 7	55.9	13.3	78	se.			2		7			0	0	d. clouds	McLandsborough & Preston.
Cardington	29.97	761.2	30.08	764.0	56.0	13.3	84	s.			0.4		7					overcast	John McLaren.
Chatham, School M. E.	29.92	760.0	30.09	764.3	53.1	11.7	94	calm			0		8					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.72	754.9	29.95	760.7	56.9	13.8	94	sse.			5		10					overcast	The Staff.
Fort Napier, Natal	27.60	701 0	29.82	757.4	60.0	15.6	82	ne.			5		10					raining	C. Stares, A.H.C.
Freetown, Sierra Leone	29.67	753.6	29.90	759.4	87.0	30.6	72	n.			6		5					d. clouds	J. W. Smith.
Galway, Queen's College	29.55	750.6	29.58	751.3	57	13.9	87	sw.			1		8			0.06	1.5	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	68.0	20.0	91	nw.			4		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.54	750.3	29.74	755.4	53.8	12.1	80	sse.			6		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.90	759.4	30.07	763.8	58.7	14.8	79	sse.			1		7					d. clouds	The Staff.
Guernsey	29.76	755.9	30.06	763.5	60.0	15.6	85	sse.			1		3					blue sky	A. Collenette, F. M. S
Kew, Observatory	30.03	762.7	30.07	763 8	58.5	14.7	81	s.	10	4.5			6					misty	The Staff.
Leicester, Museum	29.75	755.6	30.01	762.2	54.0	12.2	87	ssw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.93	760.2	74.4	23.6	56	nw.			3		6			0.22	5.6	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.04	763.0	76.0	24.4	85	se.			2		0					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.48	748.8	30.00	762.0	54.8	12.7	87	s.			5		8					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.82	757.4	30.05	763.3	52.6	11.4	93	sse.			3		0					misty	The Staff.
Plymouth	29.90	759.4	29.98	761.5	60.2	15.7	88	s.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.52	749.8	29.62	752 3	50	10.0	93						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.89	759.2	29.95	760.7	72.6	22.6	59	sw			1		7					d. clouds	W. H. Lyne.
Sheffield	29.71	754.6	29.99	761.7	56.8	13.8	82	ssw.			1		1			0.01	0.3	blue sky	W. F. Cooper.
Silloth Rectory	29.80	756.9	29.84	757.9	56.6	13.7	72	s.			3		7			0.025	0.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.94	760.5	54.9	12.7	74	s.	20	8.9			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					57.7	14.3	84	se.			1.0		8					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.90	759.4	29.98	761.5	60	15.6	82	s.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.64	752.8	29.67	753.6	57.4	14.1	94	ssw.	25	11.2			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.56	750.8	29.95	760.7	70.2	21.2	60	nw.	12.4	5.5		1 c	0	w.		0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.00	762.0	30.04	763.0	51.0	10.6		calm	0	0			10 n			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.3	30.09	764.3	56	13.3	97	sw.	6	2.7			10 n		calm	0.300	7.6	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.99	761.7	30.05	763.3	54	12.2	96	sw.	4	1.8			10 s		sw.	0.13	3.3	cloudy	G. A. Blair.
Cornwall, Ontario	29.84	757.9	30.04	763.0	54.0	12.2	97	w.			1		10 s			0.247	6.3	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.99	761.7	30.04	763.0	45.5	7.5		w.			1		10 s			0.40	10.2		H A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.01	762.2	30.03	762.7	44	6.7	89	calm	0	0			fg			0.30	7.6	foggy	J. McWilliams.
Fort Garry, Manitoba*	29.43	747.5	30.33	770.4	19	— 7.2	91	sw.	1	0.4		0	0			0	0	clear	James Stewart.
Fredericton, N. B	30.04	763.0	30.10	764.5	54.0	12.2	94	s.	1	0.4			10 n			0.040	1.0	misty	Prof. Thos. Harrison
Grand Manan, N. B	30.06	763.5	30.12	765.0	56	13.3	96	calm	0	0			fg.			0.04	1.0	foggy	J. Chipman Seeley
Granton, Ontario	29.01	736.8	30.12	765.0	50.0	10.0	100	calm	0	0			10 n			0	0	misty	Jas. Grant.
Halifax, N. S*	30.04	763.0	30.17	766.3	56	13.3	100	se.	1	0.4			fg.			0	0	dense fog	A. Allison.
Hamilton, Ontario	29.66	753 4	30.04	763.0	55.2	12.9	96	ne.			1	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.76	755.9	30.10	764.5	56	13.3	93	n.	2	0.9			10 n		n.	1.63	41.4	light rain	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.04	763.0	30.08	764.0	65.0	18.3	86	sw.			4								C. H. Rigby.
London, Ontario	29.17	740.9	30.07	763.8	52.7	11.5	100	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.68	703.1	30.09	764 3	26	— 3.3	88												John Ewart.
Minnedosa, N. W. T	28.26	717.8	30.27	768.8	24	— 4.4	92	calm	0	0			10 ks		w.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.85	758.2	30.06	763.5	56	13.3	93	w.	7	3.1			10 s			0.16	4.1	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.86	758.4	30.08	764.0	50.1	10.1	97	n.				6 cs	0			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.44	747.8	30.14	765.5	44	6.7	93	n.	11	4.9			10 n		n.	0.08	2.0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.36	745.7	30.09	764.3	55.7	13.2	87	ne.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.67	753.0	30.42	772.7	23	— 5.0	84	w.	3	1.3		5 k	0	s.		0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.39	740.5	30.08	764.0	55	12.8	100	n.	2	0.9			10 n			0	0	threatening	H Morgan
Port Stanley, Ontario	29.42	747.3	30.07	763.8	54	12.2	96	n.	3	1.3			fg.			0	0	dense fog	M. Payne.
Qu Appelle, N. W. T	27.82	706.6	30.17	766.3	29	— 1.7	70	calm	0	0			10 n		w.	0.03	0.8	cloudy	Leslie Gordon.
Quebec, Quebec*	29.68	753.9	30.04	763.0	52	11.1	100	s	6	2.7			fg			0.48	12.2	dense fog	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.67	753.6	30.13	765.3	49	9.4	89	nw.	5	2.2			10 s		n.	0.09	2.3	cloudy	W. H McIntyre.
St. Andrews, N. B	30.05	763.3	30.10	764.5	53	11.7	100	calm	0	0			fg			0	0	dense fog	
St. John, N. B	29.99	761.7	30.14	765.5	51.5	10.8	100	s.	4	1.8			10 n			0.184	4.7	foggy	G. Hutchinson.
Saint John's, N. F	30.04	763.0	30.29	769.4	45	7.2	92	sw.			1	2 c	0			0.15	3.8	clear	J. Higgins.
St. Pierre, N. F			30.12	765.0	56.5	13.6		s.			4					0.248	6.3		The Commar dant.
Saugeen, Ontario*	29.40	746.7	30.12	765.0	48	8.9	96	n.	15	6.7			10 ks			0.05	1.3	cloudy	
Stratford, Ontario	28.82	732.0	30.10	764.5	49.0	9.4	97	nw.	2.5	1.1			10 s			0	0	d. clouds	O. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
S. W. Point, Anticosti	29.95	760.7	29.98	761.5	45	7.2	93	s.			2		1c n		w.	0.54	13.7	cloudy	Miss Grace Pope.
Sydney, C. B.	30.07	763.8	30.13	765.3	55	12.8	96	s.	10	4.5			10 n		sw.	0 03	0.8	cloudy	[illegible], C. E.
Toronto, Ontario*	29.74	755.4	30.12	765.0	54	12.2	100	calm	0	0			10 ks		w.	inap.	inap.	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.06	738.1	30.12	765.0	54.8	12.7	99	?	2	0.9			10 s			0	0	foggy	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.10	764.5	30.17	766.3	59	15.0	100	calm	0	0		fg	fg			0.02	0.5	foggy	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House.	30.04	763.0	30.07	763.8	63.0	17.2	91	sw.	10.7	4.8		4 ck	0			0	0	fine	I. Garfelt.
Springbok Fontein	27.90	708.6			62	16.7	47									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.94	760.5	30.02	762.5	57.2	14.0	89	ne.			2	10						cloudy	Samuel Redolez.
Iquique	29.97	761.2	30.00	761.9	64.4	18.0	75	sw.			3							clear	Rafael Moreno.
Niebla	29.45	748.0	29.56	750.7	50.0	10.0	89	e.			1	2	3	s.	n.	1.354	34.4	cloudy	Federico Kühling.
Punta Caldera	29.94	760.4	30.02	762.6	56.3	13.5	83	sw.			1	0	9 n		sw.			cloudy	Manuel Tobar.
Punta Corona	29.71	754.6	29.90	759.4				n.			9	10				0.150	3.8	cloudy	Francisco Alvarado.
Valparaiso	29.85	758.2	29.94	760.4	57.2	14.0	91	n.			1	10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.32	643.1																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.13	765.3	30.15	765.8	61.3	16.3	88	e.	2.2	1.0		2 c	0			0.047	1.2	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.28	769 0	30.32	770.2	50.4	10.2	67	se.	16	7			1						Oversergent Fischer.
Fanoe	30.22	767.7	30.25	768.2	53.1	11.7	73	ese.			4		3						Overloerer Lauridsen.
Godthaab, Greenland	29.73	755.2	29.78	756 3	28.0	— 2.2	75	ne.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.91	759.7	29.96	760.9	19.8	— 6.8		e.			2		6						
Stykkisholm, Iceland	28.84	732.6	28 89	733.7	43.9	6.6	87	ne.			6		10					snowing	A. O. Thoriacius.
Thorshavn	29.32	744.7	29.34	745.3	51.1	10.6	97	sw.	20	9			10					raining	Overloerer Bergh.
Vestervig	30.15	765.9	30.24	768.2	48.7	9.3	69	se.			2		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.90	759.5			80.1	26.7		nw.	3.8	1.7			3 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.54	750.2	30.19	766.7	57.9	14.4	95	wnw.			1	c		nw.	nw.	0.409	10.4		M. Labroue, Director.
Alençon, Normal School	29.61	752 2	30.17	766.2	54.0	12.2	95	n.			1		5		s.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	29.95	760.7	30.03	762.7	68.4	20.2	61	n.			1		0			0	0	clear	M. Giraud, Director
Bar-sur-Seine	29.56	750.8	30.12	765 0	52.3	11.3	89	sse.			1		10 kn			0	0	covered	M. Saillard, Director
Beauvais, Normal School	29.85	758.2	30.12	765.0	51.3	10.7	90	nnw.			1		8			0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.15	740.3	30.04	763.1	50.0	10	86	ene.			1		1		sw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.13	765.4	54.3	12.4	94	sse.			1		10			0.126	3.2	covered	M. Rayet, Director.
Bourges, Normal School	29.58	751.2	30.13	765.2	55.4	13	88	s.			1		n		s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.81	757.1	30.05	763.3	62.6	17.0	81	sw.			4		8		sw.	0	0		M. de Kermarée, Dir.
Caen, Normal School	29.97	761.1	30.04	763.0	64.4	18	50	s.			2					0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.74	755.5	30.07	763.7	50.9	10.5	84	ssw.			1		2		ssw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.59	751.5	30.10	764.4	62.2	16.8	52	e.			1		0			0	0	clear	M. Noel, Director.
Clermont-Ferrand Obs'y	28.74	729.9	30.06	763.6	65.5	18.6	56	nw.			1		5		ne.	0.039	1.0		M. Alluard, Director.
Cluny, Normal School	29.25	742.9	30.11	764 8	57.7	14.3	78	ne.			1				ne.	0	0		M. de Villemontée, Dir.
Cominercy, Normal School	29.26	743.2	30.13	765.2	50.9	10r5	77	nw.			1	2 c		w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	30.02	762.4	61.2	16.2	75	calm			0		6 kn			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.91	734.4	30.02	762.6	62.1	16.7	67	s.			1		9		sw.	0.047	1.2		M. Kina, Director.
Grenoble. Normal School	29.29	744.0	30.06	763.4	58.3	14.6	82	n.			1		kn		n.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.52	724.3	30.08	764.1	56.3	13.5	78	sw.			2		5 n		nw.	0	0	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.73	755.1	30.00	762.1	57.6	14.2	78	sse.			2		2		sse.	0	0	slightly cl'dy	M. Ollitrault, Director
Lescar, Normal School	29.56	750.8	30.12	765.0	63.0	17.2	63	sw.			1		2			0.079	2.0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.99	761.7	30.09	764.3	63.3	17.4	74	sw.			2		8	s.	s.	0.106	2.7	¾ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.03	737.3	30.08	763.9	61.7	16.5	64	ene.			1		2 k			0	0	slightly cl'dy	M. André, Director
Mans, Normal School	29.81	757.2	30.13	765.2	51.8	11	99	n.			1		10			0.004	0.1	covered	M. Richard, Director
Marseille, Observatory	29.74	755.5	30.02	762.4	60.8	16.0	88	e.			1		10		e.	0.118	3.0		M. Stephan, Director.
Montlouis	24.86	631.5	29.71	754 5	47.3	8.5	65	ne.	5.6	2.5			6		e.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.89	759.2	30.00	762.1	64.0	17.8	92	n.			1		5	s.		0	0	cloudy	M. Galzin, Director.
Nancy	29.36	745.8	30.15	765 9	48.9	9.4	92	nnw.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	29.98	761.5	30.14	765.6	65.5	18.6	59	wnw.			1	c	3 k; kn	nw.	wnw.	0	0		M. Laroque, Director.
Perpignan, Observatory	29.96	760.9	30.07	763.7	62.8	17.1	59	nw.	11.2	5.0			7		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.24	539.6			33.8	1.0		ne.			1		0			0.087	2.2	clear	M. Vaussenat, Director.
Privas, Normal School	28.91	734.3	29.96	760 9	64.8	18.2	53	n.			1		8		n.	0	0	very cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.23	640.9			42.1	5.6	99	ne.			1		8			0.169	4.3	rain & fog	M. Alluard.
Rochefort, Naval Obs'y	30.08	763.9	30.11	764.7	62.6	17.0	80	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.8	30.09	764 3	60.4	15.8	79	sw.			1		1	s.	s.	0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.97	710.5	30.12	765.1	55.0	12.8	81	se.			1		10 n		se.	0.008	0.2	covered	M. Seger, Director.
Rouen, Normal School	30.07	763.7	30.12	765.0	49.6	9.8	89	n.			1					0	0	misty	M. Mouillot, Dir.
St Lô	29.95	760.7	30.09	764.3	59.9	15.5	74	s.			1		5		s.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.96	761.0	30.13	765.2	51.8	11.0	93	nne.			1		10			0	0	covered	M. Renou, Director.
Toulouse, Observatory	29.45	747.9	30.17	766.4	59.4	15.2	78	nw.			1		10		nw.	0.008	0.2	covered	M. Baillard, Director.
Tours	29.95	760.7	30.13	765.2	56.5	13.6	86	n			1					0	0		M. de Tastes.
Versailles, Observatory	29.61	752.2	30.11	764.7	58.6	14.8	78	ne.			1		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.01	762.3	30.16	766.1	60.3	15.7	85	nw.	4.0	1.8			9 k		n.	0.059	1.5		M. Cartier, Director.
German.																			
Ansbach	28.69	728.8	30.15	765.9	52.2	11.2	68	se.			2		6	se		0	0		Prof. Jnedt.
Bamberg	29.28	743.8	30.13	765.3	55.0	12.8	64	se.			2		4 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.09	764.2	30.23	767.9	56.1	13.4	70	calm			0		6			0.008	0.2		Dr. Lensch.
Breslau	29.68	753 8	30.21	767.4	55.8	13.2	76	nne.			2		10			0	0	foggy	Royal University Obs'y.
Carlsruhe	29.67	753.6	30.13	765.4	59.4	15.2	56	ne.			2		0			0	0		Albert Senz.
Cassel	29.46	748.2	30.17	766.3	58.8	14.9	71	e.			1		8	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.76	756.0	30.13	765.3	58.6	14.8	65	e.			1		7			0	0		Physical Society.
Friedrichshafen	28.69	728.7	30.12	765.0	50.7	10.4	79	nw.			4		5	ene.		0	0		Wilhelm, Chief Tel.
Hamburg	30.15	765.7	30.24	768 0	53.2	11.8	83	ese.			3		7	ssw.		0.008	0.2		E. Preller.
Kiel	30.21	767.4	30.23	767.8	53.8	12.1	69	e.			1		3			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.77	756 2	30.19	766.9	59.5	15.3	66	ene.			2		5			0	0		H. Leppig, Asst.
Magdeburg	30.02	762.5	30.21	767.3	55.6	13.1	86	ene.			1		9	se.		0.012	0.3		Weather Observatory.
Memel	30.31	769.9	30.36	771.1	48.2	9 0	65	ne.			3		0					clear	Issermann.
Munich	28.28	718 3	30.15	765.8	46.6	8.1	86	calm			0		10			0.004	0.1		Central Station.
Neufahrwasser	30.29	769 3	30.31	769.7	52.0	11.1	66	ne.			1		7			0	0		A. Lothes.
Neustadt, Palatinate	29.57	751.1	30.10	764.5	57.9	14.4	69	calm			0		2			0	0		Dicknether.
Stuttgart	29.16	740.7	30.05	763.3	59.0	15.0	52	n.			1		2	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.22	767.7	30.25	768.4	53.4	11.9	65	ene.			2		3 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.54	750.2	29.91	759.7	72.0	22.2		n.			0.5		4 k			3.331	84.6		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.79	756.6	29.84	757.9	90.0	32.2	56	sw.	17.0	7.6			0			0	0	blue sky	
Deesa	29.37	745.9	29.83	757.7	91.5	33.1	35	ne.	9.0	4.0			2	nne.		0	0	d. clouds	
Bombay	29.78	750.3	29.81	757.3	85.7	29.8	78	nnw.	16.0	7.2			2	s.		0.03	0.8	d. clouds	
Poona, Yarrowda	27.99	711.0	29.84	757.8	82.3	27.9	52	e.	11.0	4.9			4			0.59	15.0	d. clouds	
Trichinopoly	29.57	751.1	29.85	758.3	80.8	27.1	76	wnw.	inap.	inap.			10			0.10	2.5	overcast	
Bellary	28.32	719 3	29.77	756.1	85.0	29.4	48	e.	8.0	3.6			9			0	0	gloomy	
Belgaum	27.28	692.8	29.79	756.6	80.0	26.7	56	ene.	6.0	2.7			4	w.	e.	0	0	d. clouds	
Lahore	29.15	740 4	29.89	759 1	85.0	29.4	37	calm	0	0			0			0	0	blue sky	
Roorkee	28.97	735.8	29.86	758.5	83.8	28.8	47	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.31	744.4	29.86	758.5	91.7	33.2	23	w.					3		w.	0	0	d. clouds	
Nagpur	28.84	732.5	29.87	758.8	84.7	29.3	37	e.	5.0	2.2			4	w.		0	0	d. clouds	
Jubbulpore	28.56	725.5	29.91	759.7	85.0	29.4	30	ne.	4.0	1.8			2	ne.		0	0	d. clouds	
Lucknow	29.52	749.8	29.89	759.3	86.1	30.1	47	calm	0	0			0			0	0	blue sky	
Allahabad	29.58	751.2	29.89	759.2	80.7	27.1	57	calm	0	0			0			0	0	blue sky	
Patna	29.70	754.4	29.88	759.1	85.2	29.6	56	ese.	2.1	0.9			6	ese.	ese.	0	0	d. clouds	
Hazaribagh	27.90	708.5	29.90	759.5	79.0	26.1	37	nw.	3.5	1.6			10			0	0	overcast	
Cuttack	29.84	757.9	29.92	760.0	80.3	26.8	80	calm	0	0			8			0.30	7.5	d. clouds	
Calcutta, Alipore	29.91	759.8	29.93	760.3	77.4	25.2	93	calm	0	0			9			0.50	12.7	d. clouds	
Dhubri	29.83	757.6	29.95	760.6	80.2	26.8	74	calm	0	0			1			0.15	3.8	d. clouds	
Chittagong	29.85	758.2	29.94	760.5	80.6	27.0	87	wnw.	1.8	0.8			1			0	0	d. clouds	
Sibsagar	29.63	752.6	29.97	761.2	77.1	25.1	78	ne.	2.0	0.9			8	sw.	sw.	0.75	19.0	d. clouds	
Jeypore	28.47	723.0	29.89	759.2	87.7	30.9	27	ne.	4.0	1.8			5		ne.	0	0	d. clouds	
Zanzibar	29.95	760.7			79.7	26.5	78	ese.	4.9	2.2			8		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.63	752.7	30.04	763.0	64.0	17.8	44	e.	1.3	0.6			1			0	0		Prof. Giovanni Clodig.
Milan	29.53	750.1	30.05	763.2	63.1	17.3	55	wsw.	2.5	1.1			2	w.		0	0		Prof. G.V.Schiapparelli
Padua	29.91	759.8	30.02	762.6	64.6	18.1	48	ne.	6.9	3.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	740.0	30.04	762.9	61.2	16.2	56	s.	1.8	0.8			0			0	0		Prof. F. F. Denza.
Genoa	29.80	756.8	29.98	761.6	67.1	19.5	46	n.	4.9	2.2			4	n.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.13	714.6	30.04	763.0	59.2	15.1	58	wnw.			2		6			0	0		Prof. D. C. Bruno.
Pesaro	29.97	761.2	30.02	762.4	62.8	17.1	70	nw.	15.0	6.7			3	nne.		0.598	15.2		Prof. Luigi Guidi.
Florence	29.69	754.2	29.95	760.7	67.6	19.8	42	ne.			4		3			0	0		Prof. Costantino Pittet
Leghorn	29.82	757.3	29.90	759.5	68.5	20.3	43	ne.	4.9	2.2			5			0	0		Prof. P. Monte.
Rome	29.73	755.2	29.91	759.6	68.9	20.5	43	nnw.	0.7	0.3			2			0	0		Prof. P. Tacchini.
Lecce	29.60	751.7	29.85	758.1	67.1	19.5	77	sse.	3.1	1.4			7	se.		1.764	44.8		Prof. C. de Giorgi.
Cosenza	29.00	736.5	29.89	759.0	65.1	18.4	62	wsw.	1.8	0.8			9	sw.		0.102	2.6		Prof. D. Conti.
Cagliari	29.73	755.2	29.92	760.0	71.1	21.7	50	w.			2		4	w.		0.413	10.5		Prof. A. Pacinotti.
Palermo	29.69	754.0	29.93	760.3	68.2	20.1	59	nw.	8.1	3.6			6	nw.		0.386	9.8		Prof. G. Cacciatore.
Syracuse	29.79	756.6	29.83	757.7	72.1	22.3	60	ne.	1.8	0.8			6	nne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.40	746.7	29.91	759.7	66.4	19.1	58	n.	3.1	1.4			9	w.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.79	756.6	29.82	757.5	61.1	16.2	97	n.			4		10 k;s		nw.	1.531	38.9	cloudy	H. Hattori.
Awomori	29.79	756.6	29.83	757.7	59.6	15.0	90	nw.	2.9	1.3			10 n		e.	0.952	24.2	raining	K. Ogawa.
Hamamatsu	29.78	756.4	29.88	758.9	67.8	19.9	79	w.			4	0	0			0.008	0.2	clear	Sekigawa & Yamazaki.
Kagoshima	30.02	762.5	30.03	762.8	65.8	18.8	79	calm			0	1 ck	8cs;s		sw.	0	0	cloudy	G. Miyanohaza.
Kanazawa	29.89	759.2	29.99	761.5	64.5	18.1	97	calm	0.2	0.1			10s;ks			1.258	31.9	overcast	S. Endo.
Kioto	29.81	757.1	29.98	761.5	65.5	18.6	92	calm	0	0			10ck;s		w.	0.013	0.3	cloudy	M. Tojima.
Kochi	29.96	760.9	29.98	761.4	69.8	21.0	80	se.	2.0	0.9		0	10c;ck		w.	0	0	clear	K. Kusunose.
Miasaka	29.99	761.8	30.02	762.5	69.1	20.6	78	wsw.			1	1 ck	9ck;s	w.	w.	0	0	cloudy	K. Masusaki
Miyako	29.59	751.7	29.70	754.5	61.8	16.6	76	nw.	14.1	6.3		3 ck	6 s	n.		2.472	62.8	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.85	758.2	30.05	763.3	67.7	19.8	69	ne.	4.8	2.1		4 cs	6 s	sw.	sw.	0	0	overcast	S. Takehayasu.
Niigata	29.88	758.9	29.91	759.7	65.4	18.6	83	ne.	5.2	2.3			10 ks		n.	0.980	24.9	covered	Satoo & Tomikawa.
Nobiru	29.70	754.5	29.72	754.9	65.4	18.6	78	nw.	17.5	7.8		5 ck	3 ks	wsw.		1.765	44.8	fair	Yoslino & Midzushina.
Numazu	29.80	756.9	29.84	757.8	65.1	18.4	93	ne.			1	0	0			0.362	9.2	clear	K. Kaneda.
Osaka	29.96	761.1	29.98	761.5	66.6	19.2	87	n.	2.5	1.1		2 ck	6s;ck	sw.	sw.	0.025	0.6	cloudy	H. Omura.
Sakai	30.05	763.3	30.06	763.5	66.8	19.3	69	nnw.			2	0	9 ks		w.	0.307	7.8	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.92	760.0	30.07	763.7	66.5	19.2	76	calm			0		10 s		ssw.	0	0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.75	755.7	29.82	757.5	66.4	19.1	90	sse.	4.0	1.8		0	0			0.825	21.0	clear	The Staff.
Wakayama	29.93	760.1	29.98	761.4	68.6	20.3	81	ne.	1.8	0.8		8 ck	0	sw.		0.096	2.4	fair	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.94	760.5	30.14	765.5	69.8	21.0	75	ese.	19.5	8.7			10n;ks		ese.			drizzling	The Staff.
MEXICAN.																			
Leon	24.29	617.0	29.94	760.5	59.5	15.3	91	nnw.	0.9	0.4		0	9ck;s		e.	0.016	0.4	cloudy	Prof. M. Leal.
Mazatlan	29.64	752.7	29.89	759.3	76.0	24.4	86	nne.	1.6	0.8		2 cs	1 ks			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.13	765.2	30.13	765.2	52.7	11.5		ese.			2					0	0		
Groningen	30.11	764.8	30.17	766.2	50.5	10.3		ese.			1					0.016	0.4		
Helder	30.13	765.4	30.13	765.4	50.9	10.5		ese.			2					0	0		
Hellevoetsluis	30.13	765.4	30.13	765.4	49.5	9.7	90	e.			1					0	0		
Utrecht	30.11	764.7	30.15	765.9	52.0	11.1	93	e.			2		10			0	0	dull	H. van der Brink.
Sub-series.																			
Batavia, Java	29.87	758.6			81.3	27.4	73	ene.	1.0	0.4			8			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.07	763.7	30.13	765.3	48.9	9.4	51	s.	31	14			4			0	0		
Brono	30.13	765.2	30.17	766.2	43.7	6.5	71	sw.			4		3			0.106	2.7		
Christiania	30.17	766.4	30.32	770.2	44.4	6.9	65	sw.	4	2			4			0	0		
Gjæsvær	29.88	758.9	29.90	759.5	33.8	1.0		wnw.			6		10						
Lodingen	29.99	761.8	30.04	763.0	40.8	4.9	65	wsw.			4.6		9			0	0		
PORTUGUESE.																			
Angra, Azores					67.5	19.7	78	w.	11.2	5.0			4			1.063	27.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.15	765.7	30.23	767.9	69.8	21.0	65	se.	8.7	3.9			7		n.	0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.1	30.19	766.7	63.9	17.7	74	sw.	10.5	4.7			5			0	0		The Staff.
Ponta Delgada, Azores	29.98	761.6	30.00	763.4	73.0	22.8	84	sw.	10.1	7.2			3			0.469	11.9		
Saint Paul de Loando	29.74	755.4	29.94	760.5	77.0	25.0	90	w.	1.3	0.6			10			0	0		
San Salvador, Congo	28.11	714.0	29.94	760.4	79.7	26.5	64	[illegible]			1		8			0	0		
Serra da Estrella	25.41	645.3	30.13	765.2	51.3	10.7	61	calm	0	0			5			0	0		
RUSSIAN.																			
Akmolinski	29.46	748.3	30.61	777.5	29.7	— 1.3	51	nw.	7	3		3 c	0			0	0		Major K. Lasarew.
Archangel	29.51	749.5	29.53	750.0	33.8	1.0	96	wsw.	18	8			10			0.079	2.0	light rain	Capt. Sseliwerstow
Ashurada	30.18	766.5	30.08	764.1	78.3	25.7	79	nnw.	13	6		1 ck	0			0	0		
Astrakhan	30.24	768.1	30.17	766.3	61.3	16.3	93	se.	20	9			10 s;n			blank	blank		Capt. Wisganow.
Baku	30.17	766.4	30.13	765.2	74.1	23.4	83	s.	13	6		0	2 ks			0	0		
Barnaul	29.92	759.9	30.46	773.6	24.3	— 4.3	75	w.	18	8			10			inap.	inap.		Meteorological Obs'y
Bielosersk	29.49	749.0	29.96	761.0	43.0	6.1	65	wsw.	13	6		0	2 ks			0	0		
Dorpat	30.05	763.2	30.30	769.6	45.0	7.2	58	wnw.	7	3		0	0			0	0		Observatory.
Ekaterinburg	29.37	746.0	30.37	771.3	39.9	4.4	49	sw.	18	8			10			0	0	light clouds	Meteorological Obs'y.
Elissawetgrad	29.52	749.8	29.97	761.1	57.2	14.0	90	w.	7	3			10 n			0.087	2.2		
Irkutsk	28.20	717.9	29.89	759.3	50.5	10.3	41	nw.			2		0			0	0		
Kasalinsk																			
Kasan	29.95	760.6	30.22	767.7	44.2	6.8	53	s.	16	7			10 n			0	0		Observatory.
Kem	29.74	755.4	29.79	756.7	36.1	2.3	74	nw.	9	4		0	7 ks			0	0		
Kertch	30.00	762.0	30.02	762.6	68.4	20.2	69	calm	0	0		0	8 n			0	0		Lagorio & Sastyres.
Kieff	29.33	745.0	29.97	761.2	50.0	10.0	98	nnw.	11	5			10ks;n			0.071	1.8		Observatory.
Koslov	29.50	749.2	30.01	762.2	43.5	6.4	94	ssw.	7	3			10 n			0.220	5.6	raining	
Libau	30.34	770.6	30.36	771.2	49.6	9.8	45	nne.	7	3			0			0.004	0.1		E. Quass.
Lugan	29.75	755.7	29.95	760.8	66.4	19.1	72	ssw.	9	4			9			0.008	0.2		Meteorological Obs'y.
Moscow	29.53	750.1	30.02	762.4	44.8	7.1	93	sw.	2.2	1.0			10 n			0	0		Meteorological Obs'y
Nikolaiev	29.96	761.0	30.03	762.8	56.8	13.8	95	w.	18	8			10 n			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	29.96	761.0	30.05	763.2	38.8	3.8	75	calm	0	0		7 ck	0						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.93	760.2	30.07	763.8	62.4	16.9	82	calm	0	0		0	5 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.68	753.8	30.03	762.7	59.0	15.0	9	n.	4.5	2.0		0	0			0	0		
Petrozavodsk	29.72	754.9	29.92	760.0	39.2	4.0	64	nw.	34	15			10			0	0	light clouds	Dr. Bergmann.
Pinsk	29.63	752.5	30.13	765.2	54.3	12.4	79	nne.	11	5			10 s			0	0		
Poti	30.02	762.4	30.05	763.2	78.3	25.7	77	ssw.	4	2		0	5 ks			0	0		
St. Petersburg	30.13	765.2	30.15	765.8	43.0	6.1	63	wnw.	20	9						0.193	4.9		Central Physical Obs'y.
Samarkand	27.81	706.4	30.28	769.1	58.1	14.5	47	se.	18	8		1 c	0			0	0		
Semipalatinsk	29.91	759.8	30.62	777.7	27.5	— 2.5	60	nw.	7	3			9			inap.	inap.		Major Lasarew
Sevastopol	29.85	758.3	30.06	763.6	64.8	18.2	70	wnw.	16	7		0	7 ks			0	0		
Staroi Bykhov	29.47	748.4	30.02	762.4	54.3	12.4	72	e.	4	2			10			0	0		
Tashkend Laboratory	28.56	725.7	30.21	767.4	66.6	19.2	44	calm	0	0		0	2 k			0	0	light clouds	Torch, A. M
Tiflis	28.73	729 8	30.11	764.8	71.4	21.9	62	se.	2	1		0	7 n			0.004	0.1		Physical Observatory.
Vernoe	27.91	709.0	30.52	775.1	39.9	4.4	64	calm	0	0		0	7 k			0	0		
Viatka	29.33	745.0	29.98	761.4	39.2	4.0	75	ssw.	9	4			8			0.165	4.2		
Warsaw	29.76	755.9	30.19	766.7	53.2	11.8	87	n.	7	3			10 kn			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.99	761.7	30.30	769.5	25.5	— 3.6	69	wnw.	22	10			9			0.004	0.1	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	67.6	19.8	69	sw.	13.0	5.8		0	5			0	0	clouds	Antonio Molins.
Bilbao, Met. Obs'y	30.07	763.7	30.13	765.2	70.9	21.6	54	se.	2.2	1.0		2	0	e.		0.008	0.2	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.19	690.7	30.14	765 6	59.0	15.0	67	ne.	1.8	0.8		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.91	709.0	30.12	765.1	63.9	17.7	54	s.	4.9	2.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.92	759.9	30.02	762.6	72.9	22.7	56	nw.	4.0	1.8		4	3	sw.		0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.31	744.4	30.07	763.7	53.6	12.0	84	s.	6.0	2.7		6 s	4 k	n.	ne.	0.118	3.0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.16	740.7	30.04	763.1	63.9	17.7	69	sw	3.8	1.7			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.6	73.9	23.3	82	se.	1.3	0.6		1cs;ck	2 sk	se.	une.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.94	760.4	29.99	761.8	79.8	26.6	75	ene.	2.2	1.0		0	k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.09	764.4	30.19	766.9	60.4	15.8	85	w.	5.8	2.6		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.95	760.8	30.04	763.1	79.5	26.4	89	calm	0	0		3 k	2 k	se.	se.	0.110	2.8		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.01	762.3	30.05	763.3	39.6	4.2	90	nw.			4		0			0	0		
Umea	30.14	765.5	30.19	766.8	43.9	6.6	43	nw.			4		0			0	0		
Hernosand	30.20	767.0	30.25	768.3	47.5	8.6	50	nw.			4		0			0	0		
Stockholm	30.22	767.5	30.39	772.0	44.6	7.0	41	w.			2		0			0	0		
Wisby	30.28	769.0	30.34	770.5	47.8	8.8	58	ne.			4		0			0	0		
Sub-series.																			
Upsala	30.28	769.0	30.36	771.2	45.1	7.3	49	wsw.	4.0	1.8			0			0.008	0.2		H.H.Hildebrandesson
Swiss.																			
Geneva	28.65	727.8	30.07	763.8	57.6	14.2	76	n.			2		3			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.01	762.2	71.6	22.0	55	n.	3	1.5			7		sw.	0	0		The Observatory.
Valona			29.97?	761.1?	67.5	19.7		nw.			1		10			0.08	2.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.98	761.6	77.9	25.5	73	w.			1	9 c		ssw.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.04	763.0	30.12	765.0	62	16.7	93	s.	5	2.2			10 n			0.19	4.8	heavy rain	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.20	767.1	40	4.4	82	ne.	7	3.1			10 n		ne.	0.14	3.6	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.99	634.7	29.89	759.2	36.0	2.2	66	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.06	763.5	30	— 1.1	81	e.	3	1.3			10 s		w.	inap.	inap.	cloudy	B. O. Lenoir.
Atlanta, Georgia	28 85	732.8	30.04	763.0	66.0	18.9	90	ne.	5	2.2		0	0			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	30.09	764 3	30.10	764.5	66	18.9	100	ne.	2	0.9			fg.			0	0	dense fog	Jas. M. Watson.
Augusta, Georgia	29.79	756 7	29.98	761.5	74	23.4	84	n.	3	1.3		0	5 s		ne.	0	0	fair	Louis Duane.
Baltimore, Maryland	30.05	763.3	30.10	764.5	67.7	19.8	100	ne.	3	1.3			fg.			0.04	1.0	dense fog	Geo. W. Feiger.
Barnegat City, New Jersey	30.09	764.3	30.11	764.8	64.0	17.8	98	calm	0	0			fg.			0.13	3.3	dense fog	G. A. Hill.
Bennett, Fort, Dakota	28.56	725.4	30.18	766.6	33.0	0.6	71	nw.	5	2.2		5 k	5 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.18	690.4	30.09	764.3	32	0.0	62	calm	0	0		3 c	0			0.03	0.8	clear	Thomas Morgan.
Bismarck, Dakota	28.30	718.8	30.18	766 6	32	0.0	100	ne.	16	7.2			10 n			0.56	14.2	light snow	B. O. Lenoir.
Block Island, Rhode Island	30 12	765.0	30.15	765.8	59.3	15.2	100	e.	4	1.8			fg.			0.73	18.5	dense fog	J. T. Elker.
Boise City, Idaho	27.26	692 4	30.12	765.0	39	3.9	86	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.00	762.0	30.16	766.1	54.5	12.5	100	s.	1	0.4			10s;fg			0.14	3.6	threatening	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	76.0	24.4	90	se.	3	1.3		0	2 ks		se.	0	0	clear	John McGlone.
Buffalo, New York	29.33	745.0	30.09	764.3	56.3	13.5	100	nw.	7	3.1			fg.			1.06	26.9	dense fog	A. Schneider.
Buford, Fort, Dakota	28.16	715.3	30.26	768.6	24	— 4.4	88	e.	2	0.9		0	3 s			inap.	inap.	clear	Wm. Finn.
Cairo, Illinois	29.58	751.3	29.98	761.5	63.6	17.6	93	n.	3	1.3			10 s			0.06	1.5	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.90	759.4	30.10	764.5	52.1	11.2	95	n.	6	2.7		0	5 s		n.	0	0	fair	O. D. Stewart.
Cape Henry, Virginia	30.02	762.5	30.04	763.0	70.0	21.1	94	se.	8	3.6		0	1k; fg		se.	0.07	1.8	clear	A. K. Alderson.
Cape May, New Jersey	30.06	763.5	30.10	764.5	68.0	20.0	97	se.	8	3.6		0	fg			0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.26	743.2	29.95	760.7	46.5	8.1	100	ne.	18	8.0			fg.		ne.	0	0	dense fog	J. J. McLean.
Cedar Keys, Florida	29.95	760.7	29.97	761.2	79.5	26.4	88	calm	0	0		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.82	757.4	29.88	758.9	73.0	22.8	94	ne.	8	3.6			10 s		ne.	0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.98	761.5	69.0	20.6	93	n.	7	3.1			10 s		n.	inap.	inap.	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.20	741.7	30.03	762 7	60.0	15.6	100	calm	0	0			fg			0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	30.11	764.8	29.2	— 1.6	80	s.	4	1.8			10 s			0.02	0.5	cloudy	E. McGovern.
Chicago, Illinois	29.36	745.7	30.07	763.8	50.0	10.0	93	ne.	14	6.3			10 n		ne.	0.02	0.5	light rain	Wm. Norrington.
Chincoteague, Virginia	30.04	763.0	30.06	763.5	69.5	20.8	100	se.	8	3.6		0	1 ks		se.	inap.	inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	30.00	762.0	65.0	18.3	84	ne.	2	0.9		6 c	0	w.		0	0	fair	L. Dunne.
Cleveland, Ohio	29.32	744.7	30.06	763.5	60.0	15.6	90	ne.	5	2.2			10 s		ne.	0.44	11.2	cloudy	J. B. Newlin.
Columbus, Ohio	29.17	740.9	30.03	762.7	62	16.7	93	n.	4	1.8			10 s			0.07	1.8	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.00	711.2	29.95	760.7	57.3	14.1	86	calm	0	0		0	3 s			0.21	5.3	clear	C. E. King.
Custer, Fort, M. T.	26.89	683.0	30.13	765.3	26	— 3.3	88	e.	7	3.1			10 s			0.02	0.5	cloudy	T. Gibson.
Davenport, Iowa	29.36	745 7	30.02	762.5	47	8.3	93	e.	14	6.3			10 n		e.	1.13	28.7	light rain	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	30.00	762.0	46.0	7.8	65	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.27	718.0	30.06	763.5	48.0	8.9	66	e.	2	0.9			10 s			0	0	cloudy	D. Moore.
Deadwood, Dakota	25.44	646.2	30.12	765.0	22.2	— 5.4	88	calm	0	0		0	0			0.02	0.5	clear	F. Des Willson.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	66.6	19.2	100	se.	6	2.7		4 ck	fg.			0.01	0.3	fair	F. W. Mixer.
Denver, Colorado	24.83	630.7	30.09	764.3	34.7	1.5	90	nw.	4	1.8			10 n			0.29	7.4	light snow	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.10	764.5	45	7.2	83	ne.	5	2.2			10 n		ne.	0.03	0.8	light rain	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.12	765.0	51.0	10.6	93	n.	13	5.8			10 s			0.03	0.8	cloudy	E. R. Bruce.
Dodge City, Kansas	27.47	697.7	30.10	764.5	40	4.4	82	n.	16	7.2			10 s		n.	0.14	3.6	cloudy	J. H. Bryce.
Dubuque, Iowa	29.40	746.7	30.12	765.0	44.2	6.8	96	ne.	11	4.9			10 n			0.40	10.2	heavy rain	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.28	769 1	38	3.3	82	n.	5	2.2			10 s			0	0	cloudy	N. B. Conger.
Eastport, Maine	30.05	763.3	30.12	765.0	54.0	12.2	93	s.	2	0.9			fg.		s.	0.10	2.5	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.25	692.1	30.04	763.0	44	6.7	100	n.	16	7.2			10 n			0.09	2.3	light rain	J. C. Rickli.
El Paso, Texas	26.28	667.5	30.02	762.5	48.5	9.2	71	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.35	745.5	30.08	764.0	58	14.4	93	ne.	8	3.6			fg.			1.06	26.9	dense fog	C. A. Shaw.
Escanaba, Michigan	29.61	752.1	30.28	769.1	38.0	3.3	72	ne.	8	3.6			10 s		s.	0.04	1.0	cloudy	George Heathcote.
Galveston, Texas	29.91	759.7	29.95	760.7	78.7	25.9	74	sw.	4	1.8		2 c	6 ks		se.	inap.	inap.	cloudy	E. O'C. MacInerney
Grand Haven, Michigan	29.45	748.0	30.12	765.0	42.0	5.6	96	ne.	13	5.8			10 n			0.08	2.0	light rain	Wm. H. Fallon.

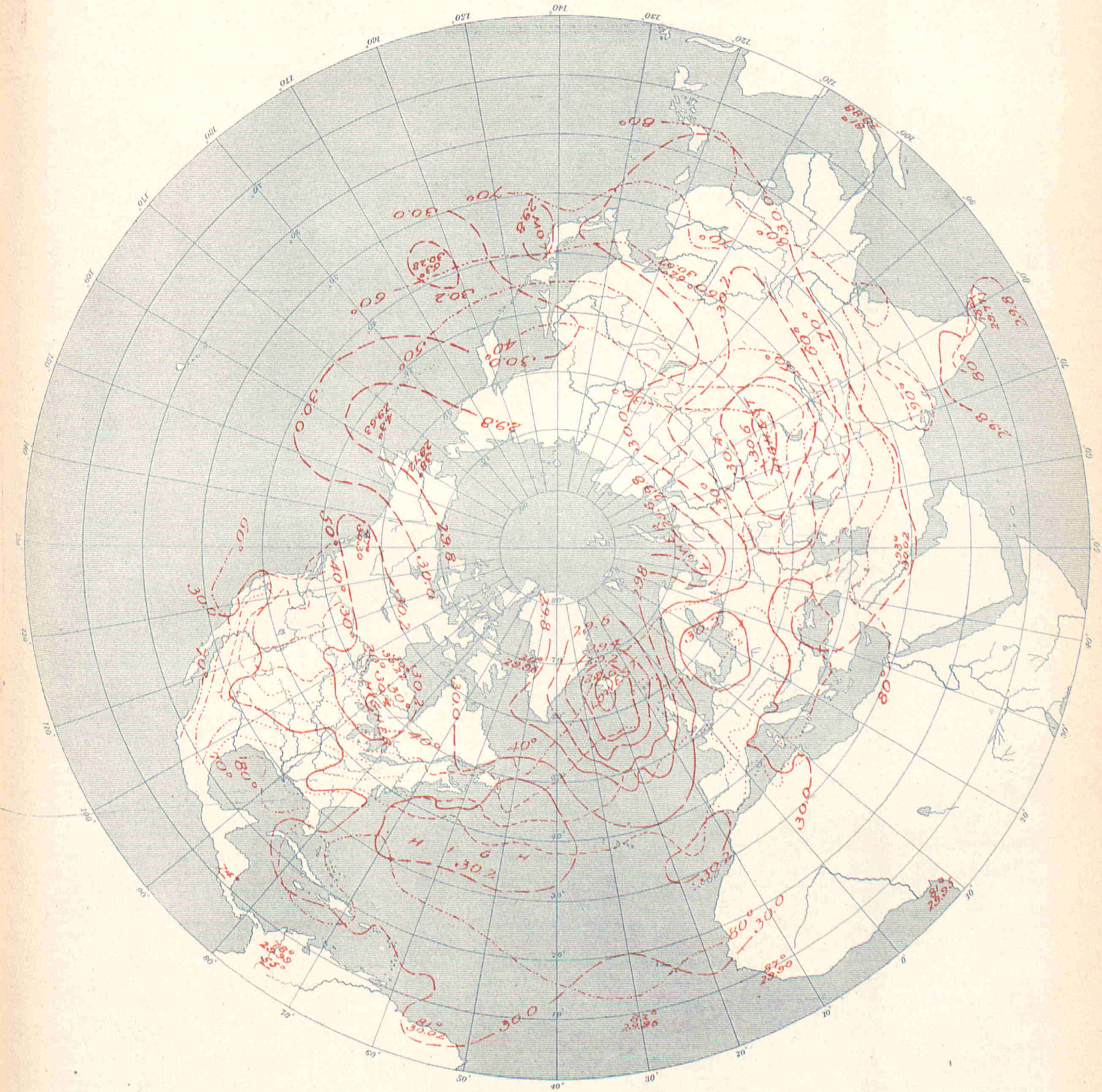
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.20	640.1	29.90	759.4	46.3	7.9	49	n.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.01	762.2	30.02	762.5	73.0	22.8	97	se.	16	7.2			10 k		se.	0.40	10.2	cloudy	R. M. Crawford.
Helena, Montana	25.78	654.8	30.08	764.0	35	1.7	89	sw.	1	0.4			10 s			blank	blank	cloudy	T. H. Jones.
Huron, Dakota	28.74	730.0	30.17	766.3	31.2	— 0.4	87	w.	3	1.3		0	4 s			0.31	7.9	fair	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.98	761.5	60.3	15.7	81	calm	0	0			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.89	759.2	29.92	760.0	77.0	25.0	85	s.	4	1.8		2 k	0	s.		0	0	clear	I. A. Reed.
Jacksonville Florida	29.87	758.7	29.91	759.7	73.0	22.8	83	nw.	7	3.1		3 cs	2 s			0	0	fair	J. W. Smith.
Keokuk, Iowa	29.32	744.7	29.99	761.7	52.0	11.1	93	e.	8	3.6			10 n		e.	0.43	10.9	light rain	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	77	25.0	76	sw.	2	0.9		6 ck	0	ne		0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.02	762.5	30.04	763.0	70.1	21.2	94	s.	13	5.8		0	5 k		s.	0.12	3.0	dense fog	Wesley Blake.
Knoxville, Tennessee	28.99	736.3	30.03	762.7	60.8	16.0	98	calm	0	0			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.38	746.2	30.17	766.3	40.4	4.7	82	ne.	8	3.6			10 s			0	0	cloudy	S. C. Emery
Leavenworth, Kansas	29.13	739.9	30.03	762.7	47	8.3	93	n.	4	1.8			10 s		n.	1.78	45.2	threatening	T. S. Outram.
Lewiston, Idaho	29.25	742.9	30.10	764.5	42.0	5.6	74	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.61	752.1	29.93	760.2	67.0	19.4	100	ne.	2	0.9			fg.			0.71	18.0	dense fog	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	58	14.4	86	calm	0	0			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.96	761.0	62.0	16.7	93	n.	2	0.9		10 c	0	w.		0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.33	745.0	30.02	762.5	70.0	21.1	94	ne.	2	0.9			10 s		ne.	0.30	7.6	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.59	751.6	30.26	768.6	38.9	3.8	82	ne.	16	7.2			10ks;s		ne.	0.06	1.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.99	761.7	30.00	762.0	73.0	22.8	97	se.	20	8.9			10 s		se.	0.60	15.2	cloudy	William Daly.
Maginnis, Fort, Montana	25.51	647.9	30.05	763.3	27	— 2.8	56	e.	12	5.4		0	0			0.55	14.0	clear	F. Burke.
Marquette, Michigan	29.54	750.3	30.28	769.1	38.0	3.3	65	n.	6	2.7		4 cs	6 k		ne.	0.09	2.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.60	751.8	29.94	760.5	66	18.9	100	w.	1	0.4			fg.			0	0	dense fog	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.14	765.5	44.8	7.1	83	ne.	20	8.9			10 n		ne.	0.19	4.8	light rain	W. Line.
Mobile, Alabama	29.94	760.5	29.98	761.5	65	18.3	82	n.	2	0.9			sk.			0	0	light smoke.	H. U. Jones.
Montgomery, Alabama	29.78	756.4	30.01	762.2	65	18.3	78	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.20	741.7	30.22	767.6	34	1.1	100	e.	12	5.4			10 n		n.	0.03	0.8	light snow	H. Bessant.
Mt. Washington, N. H.	24.00	609.6	30.34	770.6	49.8	9.9	100	sw.	30	13.4			fg.		sw.	0.39	9.9	dense fog	S. W. Beall.
Nashville, Tennessee	29.38	746.2	29.96	761.0	62.0	16.7	96	e.	2	0.9			fg.			0	0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.15	765.8	58.6	14.8	100	ne.	2	0.9			fg.			0.31	7.9	dense fog	J. H. Sherman.
New London, Connecticut	30.14	765.5	30.19	766.8	59	15.0	100	calm	0	0			fg.			0.01	0.3	dense fog	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	72.0	22.2	84	w.	1	0.4		0	0			0	0	clear	M. Herman.
New York, New York	29.97	761.2	30.15	765.8	62.0	16.7	100	ne.	3	1.3			fg.			0.25	6.3	dense fog	H. J. Penrod.
Norfolk, Virginia	29.97	761.2	30.00	762.0	73.0	22.8	84	e.	9	4.0		2 ck	3 k	sw.	s.	0.33	8.4	fair	Wm. Davis.
North Platte, Nebraska	27.24	691.9	30.20	767.1	31.6	— 0.2	86	calm	0	0		0	2 s			0.02	0.5	clear	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	49	9.4	93	calm	0	0			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	28.95	735.3	30.15	765.8	43.0	6.1	93	n.	2	0.9			10 n			0.01	0.3	light rain	A. Pollak
Oswego, New York	29.76	755.9	30.09	764.3	59.0	15.0	90	ne.	2	0.9			10 s		ne.	0.07	1.8	cloudy	J. G. Linsley
Palestine, Texas	29.43	747.5	29.99	761.7	69.0	20.6	87	w.	2	0.9		6 ck	2 ks	sw.	w.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.97	761.2	64.8	18.2	90	calm	0	0			fg.			0	0	clear	M. McGauran.
Philadelphia, Pa	30.03	762.7	30.13	765.3	63	17.2	100	ne.	6	2.7			fg.			0.01	0.3	dense fog	T. F. Townsend.
Pike's Peak, Colorado	17.70	449.6	29.98	761.5	9	—12.8	87	sw.	8	3.6		0	0			0.04	1.0	clear	H. Hall.
Pittsburg, Pennsylvania	29.24	742.7	30.06	763.5	62.0	16.7	87	calm	0	0			fg.			0	0	dense fog	G. C. Schaeffer.
Port Huron, Michigan	29.41	747.0	30.10	764.5	49.0	9.4	86	n.	18	8.0			10 s		n.	0.10	2.5	cloudy	M. H. Perry
Portland, Maine	30.06	763.5	30.11	764.8	56	13.3	86	sw.	5	2.2			10s;fg			0.14	3.6	cloudy	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	49.0	9.4	93	calm	0	0			10 s		nw.	0.03	0.8	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.77	629.1	29.93	760.2	38.8	3.8	60	sw.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.13	765.3	30.16	766.1	56.6	13.7	100	s	6	2.7			fg.			0.41	10.4	dense fog	O. N. Kitchel.
Red Bluff, California	29.58	751.3	29.94	760.5	54	12.2	66	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.72	754.9	29.96	761.0	73.0	22.8	97	se.	1	0.4		0	3 s			0	0	clear	Fred. Belford.
Rochester, N. Y	29.44	747.8	30.11	764.8	55	12.8	100	ne.	5	2.2			10n;fg			0.18	4.6	light rain	
Roseburg, Oregon	29.57	751.1	30.13	765.3	44.4	6.9	91	calm	0	0			10 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	29.86	758.4	29.94	760.5	53.0	11.7	83	se.	4	1.8		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.35	745.5	29.97	761.2	57.7	14.3	100	ne.	2	0.9			10 s			0.06	1.5	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.68	753.9	29.72	754.9	38	3.3	89	se.	16	7.2		2 k	6 ks	se.	se.	0.02	0.5	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.34	745.2	30.21	767.3	38.5	3.6	72	se.	6	2.7			10 s		se.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.39	746.5	30.29	769.4	11	—11.7	89	nw	1	0.4			0	4 s		0.09	2.3	fair	C. B. Dilley
Salt Lake City, Utah	25.71	653.0	30.11	764.8	36	2.2	72	ne.	2	0.9		0	0			0.05	1.3	clear	J. Craig.
San Diego, California	29.90	759.4	29.97	761.2	62.0	16.7	74	n.	3	1.3			10 s		nw.	0	0	cloudy	F. R. Day.
Sanford, Florida	29.89	759.2	29.94	760.5	72.2	22.3	90	s.	5	2.2			10 s			0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.39	746.5	30.08	764.0	60	15.6	93	e.	7	3.1			10 s		e.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.10	764.5	30.13	765.3	62.0	16.7	100	e.	5	2.2			fg.			0.28	7.1	dense fog	B. A. Blundon
San Francisco, California	29.92	760.0	29.99	761.7	53.5	11.9	90	sw.	4	1.8			fg.		sw.	0	0	dense fog	N. Gorom.
Savannah, Georgia	29.79	756.7	29.88	758.9	72.7	22.6	85	n.	12	5.4			10 s		ne.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.36	669.5	30.06	763.5	32	0.0	81	w.	4	1.8		3 c	3 s	nw.		0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.66	753.4	29.90	759.4	70.3	21.3	82	n.	1	0.4		0	7 k		n.	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattauch
Sitka, Alaska	30.23	767.8	30.30	769.6	47.1	8.4	93	ne.	2	0.9		0	4 ks		ne.	0.58	14.7	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.51	749.5	29.99	761.7	63.0	17.2	97	calm	0	0			10 n			0.66	16.8	light rain	J. B. Campbell
Smithville North Carolina	29.88	758.9	29.92	760.0	73.2	22.9	96	se.	7	3.1		1 c	8 ks		s.	0.41	11.2	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	30.02	762.5	38	3.3	65	calm	0	0			0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.28	743.7	29.97	761.2	57	13.9	90	e.	5	2.2			10 s		e.	inap.	inap.	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.97	685.0	30.00	762.0	52.0	11.1	93	sw.	5	2.2		0	0			0.05	1.3	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.96	761.0			48.2	9.0	97	s.	4	1.8			10 s			0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.24	691.9	29.95	760.7	39	3.9	42	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.36	745.7	30.06	763.5	56.2	13.4	93	e.	16	7.2			10 s			0	0	cloudy	A. Buell.
Unalaska, Alaska	29.61	752.1	29.63	752.6	43	6.1	83	s.	5	2.2			10 s		s.	0.34	8.6	cloudy	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.71	754.6	29.97	761.2	65.5	18.6	81	s.	5	2.2		0	hz.			0	0	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.98	761.5	30.10	764.5	67.6	19.8	96	ne.	3	1.3			fg.			0.12	3.0	dense fog	T. B. Harrison.
West Las Animas, Colorado	26.15	664.2	30.08	764.0	39	3.9	82	n.	6	2.7			10 s		n.	0	0	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	29.88	758.9	29.94	760.5	74.0	23.3	97	se.	5	2.2			10 s		e.	0.40	10.2	cloudy	Samuel A. Haney.
Yankton, Dakota	28.83	732.3	30.16	766.1	38.1	3.4	88	nw.	8	3.6			10 n		nw.	0.02	0.5	light rain	E. H. Thompson.
Yuma, Arizona	29.68	753.9	29.83	757.7	60.6	15.9	82	se.	1	0.4		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		nw.			2		10 n		n.	0.50	12.7	raining	W. H. Jackson.
Bogota, U. S. C.	22.05	560.1			55.4	13.0	70	calm	0	0		3 c	4ks;s	n.	nw.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2	76.2	24.6	88	n.	2	0.9		5 cs	5 s		e.	0.02	0.5	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	81	27.2	78	se.			2	5 k	6 ks	e		0.460	11.7		Dr. C. J. Herme.
Puerto Berrio, U. S. C.	29.43	747.5	29.99	761.7	78	25.6	89	s.			1	6 cs	3 ks	calm	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	89	e.			1	1 ck	10 ks		e.	0.13	3.3	cloudy	Earl Flint.
York Factory, B. A.	30.15	765.8	30.22	767.6	29.5	— 1.4	94	sw.	12	5.4		2 c	1 s	sw.	sw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 51′, E. 25° 12′	29.95	760.7	67	19.4	84	ese.			5		10	ese.				2	ese.	raining.
H. M. Dockyard, Bermuda, Atlantic	30.21	767.3	76.5	24.7	93	se.			2		3	ese.						d. clouds.
H. M. S. Flamingo, N. 45° 20′, W. 58° 53′	30.14	765.5	56	13.3	100	ssw.			3							1	wsw.	foggy.
H. M. S. Iris, Alexandria, Egypt	30.05	763.3	79	26.1	82	wnw.			1		0							blue sky.
H. M. S. Inflexible, N. 40° 10′, W. 24° 30′	29.93	760.2	67	19.4	84	sse.			5		9	ese.				2	se.	squally.
H. M. S. Orontes, N. 12° 34′, W. 20° 00′	30.01	762.2	81.5	27.5	100	ne.			1		0					2	nne.	blue sky.
H. M. S. Opal, Fernando Po, W. Africa	29.97	761.2	77	25.0	91	w.			1		4	ssw.						d. clouds.
H. P. M. S. Douro, N. 1° 38′, E. 7° 27′	29.95	760.8	80.6	27.0	84	nnw.			1		10			4 h'r	4 h'r	1		showery.
U. S. Navy Yard, Portsmouth, N. H*	30.09	764.3	55	12.8	93	sw.	2	0.9			10		sw.	0.20	5.1			cloudy.
U. S. S. Alliance, N. 40° 35′ W 70° 15′	30.18	766.6	62	16.7	100	sw.			2		10			light	light	sm'h	sw.	foggy.
U. S. S. Jamestown, N. 27° 48′, W. 63° 05′	30.17	766.3	79	26.1	95	ne.			5		2					sm'h	e.	fair
U. S. S. Kearsarge, Malaga, Spain			68	20.0	79	ssw.			2		2		calm					fair.
U. S. S. Lancaster, Malaga, Spain	30.12	765.0	67	19.4	89	sw.			2		2		calm			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I			59	15.0	100	calm			0		10					sm'h		foggy.
U. S. S. Powhatan, Halifax, N. S	30.18	766.6	57	13.9	100	calm			0		10							foggy.
U. S. S. Quinnebaug, Leghorn, Italy	30.02	762.5	67	19.4	79	ene.			1		5		e.					fair.
U. S. S. Saratoga, Buttermilk Falls, N. Y	30.16	766.1	63	17.2	100	calm			0		10		calm	light	light	sm'h		overcast.
U. S. S. Swatara, N. 35° 51′, W. 70° 50′	30.24	768.1	78	25.6	91	s.			3		8		s.	o	o	long	s.	cloudy.
U. S. S. Vandalia, off Staten Island, N. Y †	30.15	765.8	62	16.7	100	ne.			1		10							foggy.
S. S. British Crown, N. 48° 08′, W. 48° 27′†	30.25	768.3	56	13.3		ssw.			5		6		w.	o	o	high	ne.	cloudy.
S. S. British Prince, N. 49° 52′, W. 39° 10′*†	29.96	761.0	50	10.0		nw.			4		5?		nw.	sh'rs	sh'rs	h'vy	ne.	clear?
S. S. Ohio, off Tuskar, Ireland †	29.85	758.2	57	13.9	94	s.			6		10		s.	o	o	mod.	s.	hazy.
S. S. Circassian, N. 55° 55′, W. 12° 00′	29.35	745.5	55	12.8	87	sw.			6		7		sw.			6	sw.	d. clouds.
S. S. Nova Scotian, N. 52° 17′, W. 25° 49′	29.40	746.7	53	11.7		w.			6		10		w.			r'gh	w.	gloomy
S. S. Scandinavian, N. 53° 45′, W. 23° 28′	29.41	747.0	50	10.0		w.			7		4		w.	sh'rs	sh'rs	high	w.	hy. showers.
S. S. Sardinian, Gulf of St. Lawrence	29.94	760.5	43	6.1		w.			1		10		ne.	7 h'r	7 h'r	sm'h		misty.
S. S. Andes, N. 18° 35′, W. 75° 45′*†	30.01	762.2				ese.			3		10		e.					cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I			86	30.0	100	ene.			4		5		ene.	o	o	sm'h		fine.
S. S. Assyria, N. 41° 13′ W. 60° 48′	30.28	769.1	72	22.2	95	ese.			3		2		calm	o	o	sm'h		fine.
S. S. Devonia, N. 55° 20′, W. 13° 33′ *†	29.32	744.7	52	11.1		ssw.			6		8		sw.			h'vy	sw.	cloudy
S. S. Dorian, N. 38° 00′, W. 16° 30′	30.14	765.5	68	20.0		sw.			5		6		w.	o	o	mod	w.	fine.
S. S. Furnessia New York, N. Y †	30.18	766.6	71	21.7	90	e.			1									hazy.
S. S. Jerome, N. 36° 40′ W. 71° 01′ *	30.13?	765.3?	76	24.4		sse.			3		6		ssw.	o	o	long	ssw.	fair.
S. S. Llandaff City, N. 44° 39′, W. 53° 30′ †	30.26	768.6	56	13.3		s.			4		7		sw.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Gallia, N. 42° 17′, W. 53° 40′	30.40	772.1	60	15.6	82	e.			4		8		ne.	o	o	mod.	ne.	fair.
S. S. Pavonia, N. 42° 55′, W. 50° 43′*	30.38	771.6	52	11.1	79	nw.			2		10		nw.	o	o	sli't	ne.	
S. S. Samaria, N. 42° 40′, W. 64° 31′ *	30.20	767.1	59	15.0		ssw.			3		fg.			1 h'r	1 h'r	sm'h	n.	foggy.
S. S. Canada, N. 46° 27′, W. 50° 15′	30.37	771.3	44.6	7		wsw.			4		10					h'vy	wsw.	raining.
S. S. Wisconsin, N. 46° 00′, W. 49° 50′ *	30.34	770.6	49	9.4		sw.			2		10		sw.	o	o	long	ne.	cloudy.
S. S. Wyoming, Liverpool, Eng	29.66	761.0	55	12.8		s.			6		7		ssw.	o	o			threatening.
S. S. Bohemia, Hamburg, Germany*†	30.25	768.3				sse.			3-4		8		s.	o	o			cloudy.
S. S. Gellert, Hamburg, Germany			54	12.2	74	sw.			2		8		e.	o	o			cloudy.
S. S. Lessing, N. 43° 00′, W. 57° 40′	30.19	766.8	68	20.0		ssw.			3		4?		ssw.	o	o	sm'h		cloudy?
S. S. Rugia, N. 50° 18′, W. 10° 22′	29.71	754.6	59	15.0		ssw.			6		8		s.	10 h'r	10 h'r	r'gh	ssw.	cloudy
S. S. Silesia, New York, N. Y			62.5	16.9		ne.			3		10		ne.					foggy.
S. S. Westphalia, N. 49° 46′, W. 4° 02′			57	13.9	87	s.			4		7		w.	o	o	sm'h	s.	fair.
S. S. Nessmore, N. 47° 22′, W. 32° 46′	29.93	760.2	55	12.8	93	nnw.			4		6		wnw.	o	o	h'vy	wnw.	cloudy.
S. S. Bulgarian, N. 51° 38′, W. 17° 56′*	29.57	751.1				wsw.			6		10		wsw.	o	o	mod.	wsw.	
S. S. Archimedes, N. 48° 57′, W. 7° 19′	29.91	759.7				sse.			5		10		ssw.	1 h'r	1 h'r	high	s.	drizzling.
S. S. Hevelius, Liverpool, Eng†	29.90	759.4	56	13.3		sse.			5				s.	5 h'r	5 h'r			cloudy.
S. S. Rosse, N. 36° 54′, W. 14° 11′*	30.17	766.3	68	20.0		sw.			3		1		sw.	o	o	sm'h		clear.
S. S. Rio Grande, N. 34° 20′, W. 76° 09′ †	30.02	762.5	81	27.2		se.			6		9		ese.	o	o	h'vy	e.	gloomy.
S. S. Lampassas, N. 24° 30′, W. 83° 00′			82	27.8		e.			6		4		e.	o	o	mod.	e.	fair.
S. S. Chalmette, New York, N. Y †	30.11	764.8	63	17.2		ene.			2		10			o	o			foggy.
S. S. New York, N. 35° 53′ W. 74° 30′			76	24.4		se.			3		8		sse.	o	o	long	sse.	cloudy.
S. S. Lone Star, N. 32° 10′, W. 79° 30′*†	29.80	756.9	77	25.0		s.			2		5		s.	4 h'r	4 h'r	r'gh	e.	threatening
S. S. Alleghany, Boston, Mass†	30.19	766.8	58	14.4		calm			0					light	light			dense fog.
S. S. Archimede, New York, N. Y †	30.14	765.5	70	21.1		ene.			3		7		e.	3 h'r	3 h'r			foggy
S. S. City of Merida, N. 40° 44′, W. 74° 01′*†	30.08	764.0	78	25.6		ne.			1		10		ne.	1 h'r	1 h'r	cross	e.	foggy.
S. S. City of Washington, N. 36° 47, W. 74° 50′*†	30.00	762.0	70	21.1		se.			2		10		se.	o	o	high	se.	cloudy.
S. S. Cienfuegos, N. 26° 39′, W. 76° 26′*	30.20?	767.1?	83	28.3		s.			5		6		ssw.	8 h'r	8 h'r	long	ssw.	cloudy.
S. S. Denmark, London, Eng †	30.09	764.3	62	16.7		e.			2		8		e.	o	o			light fog.
S. S. Egypt, N. 51° 16′, W. 22° 36′	29.51	749.5	54	12.2		w.			6		8		wnw.	4 h'r	4 h'r	h'vy	w.	fair.
S. S. Grecian, N. 55° 18′, W. 40° 50′	29.89	759.2	41	5.0	82	wnw.			3		10		wnw.	1 h'r	1 h'r	high	nne.	cloudy.
S. S. England, N. 41° 06′, W. 65° 30′	30.24	768.1				ssw.			3		fg.		ssw.			sm'h		foggy
S. S. Erin, London, Eng			54	12.2		e.			4		4		e.	o	o			foggy.
S. S. Greece, N. 49° 21′, W. 18° 23′	29.81	757.2	54	12.2	80	nw.			6		4		nw.	o	o	mod.	nw.	d. clouds.
S. S. Holland, N. 42° 41′ W. 54° 39′	30.37	771.4	58	14.4		sse.			4		7		sw.	o	o	sm'h	se.	fair
S. S. Elbe, N. 50° 20′, W. 16° 21′	29.60	751.9	57.2	14.0	94	ssw.			5		10		ssw.	3 h'r	3 h'r	rg'h	var.	rainy.
S. S. Orinoco, N. 37° 33′ W. 70° 28′			78	25.6		s.			2		7		ssw.	¾ h'r	¾ h'r	mod.	e.;s.	fair.
S. S. Neckar, N. 50° 25′, W. 33° 44′	29.84	757.9	58.0	14.4	76	wnw.			6–7		4?		wnw.	o	o	hv'y	nw.	cloudy?
S. S. Ohio, N. 35° 17′, W. 44° 21′	30.27	768.8				nne.			4		3		nne.	1 h'r	1 h'r	light	nne.	clear.
S. S. Rhein, N. 48° 56′, W. 28° 48′	30.01?	762.2?				nw.			7		6		nw.	1 h'r	1 h'r	long	nw.	fair.
S. S. Strassburg, N. 37° 51′, W. 72° 56′	30.18	766.6	69.0	20.6	95	ese.			3		4		ese.			3	ese.	fair.
S. S. City of Augusta, Savannah, Ga						ene.			2		6		ne.					fine.
S. S. Muriel, St. Thomas, W. I	29.96	761.0	82	27.8		e.			2		0			o	o	sm'h		clear.
S. S. Rhynland. Antwerp, Belgium	30.13	765.3	57	13.9		ne.			2		2		ne.	o	o			clear.
S. S. Pennland, N. 49° 01′, W. 30° 00′†	29.98	761.5	50	10.6	79	nnw.			8		8?		n.	2 h'r	2 h'r	h'vy	n.	clear ?
S. S. Vaderland, N. 43° 10′, W. 55° 20′			64	17.8		s.			4		6		wnw.	2 h'r	2 h'r	light	w.	fair.
S. S. Waesland, N. 47° 31′, W. 42° 42′	30.26	768.6	51	10.6		w.			7		10		w.	½ h'r	½ h'r	r'gh	nw.	overcast.
S. S. Leerdam, N. 49° 15′, W. 33° 25′*	29.97	761.1	53.8	12.1	92	nw.			8–9		7		nw.	1 h'r	1 h'r	7	wnw.	stormy.
S. S. Schiedam, N. 40° 40′, W. 70° 02′	30.13	765.3	70.5	21.4	86	se.			2		10			o	o	mod.	s.	foggy.
S. S. Zaandam, N. 40° 51′, W. 61° —	30.32	770.1	75.9	24.4	91	var.			2-3		10		wnw.	o	o	mod.	e.	
S. S. Caracas, N. 31° 20′ W. 70° 40′ *†	30.21	767.3	81	27.2	91	sse.			5		3		sse.	o	o	mod.	sse.	hazy.
S. S. W. A. Scholten, New York, N. Y	30.22	767.6	67.1	19.5	100	n.			1		10		e.	8 h'r	8 h'r			raining.
S. S. Valencia .N. 14° 00′, W. 67° 32′*†	29.95	760.7	84	28.9	83	ne.			5		3		ne.	o	o	mod	ene.	clear.
S. S. State of Georgia, N. 55° 08′, W. 16° 10′	29.26	743.2	54	12.2		sw.			7–8		5		sw.	sh'rs	sh'rs	r'gh	wsw.	squally.
S. S. State of Indiana, N. 47° 57′ W. 47° 57′			44	6.7		w.			4		8		w.	2 h'r	2 h'r	mod.	ne.	cloudy.
S. S. State of Nebraska, N. 41° 42′, W. 64° 12′*†	30.19	766.8	62	16.7		s.			2		3		w.	o	o	sm'h		dense fog.
S. S. Thingvalla, New York, N. Y †	30.13	765.3	59.0	15.0		sse.			2		10			2 h'r	2 h'r			foggy.
S. S. Otranto, N. 44° 30′, W. 53° 41′			58	14.4		s.			5		8		w.	o	o	mod.	sw.	cloudy.
S. S. Romano, New York, N. Y			70	21.1		se.			2		10		se.					dense fog.
S. S. Salerno, N. 50° 05′, W. 26° 49′*†	29.78	756.4	50	10.0		wnw.			6		6		wnw.	0.5	13.	h'vy	w.	raining.
S. S. Ontario, N. 55° 42′ W. 12° 58′	29.31	744.5	51.5	10.8		sw.			7		5		sw.	6 h'r	6 h'r	light	sw.	threatening.
S. S. Dominion, N. 56° 01′, W. 24° 06′*†	29.18	741.2	50	10.0		w.			5		10		wnw.			rg'h	wnw.	cloudy.
S. S. Quebec, Montreal, Canada	30.02	762.5	58	14.4		s.			1		10		sw.	4½ h'r	4½ h'r			overcast.
S. S. Lake Huron, N. 56° 09′, W. 15° 22′	29.19	741.4	50	10.0		sw.			7		2		wsw.	4 h'r	4 h'r	high	sw.	squally.
S. S. Lake Manitoba, N. 50° 48′, W. 58° —	30.00	762.0	48	8.9		sw.			4		9		sw.	o	o	mod.	sw.	hazy.
S. S. Olbers, N. 39° 56′ W. 73° 24′	30.19	766.8	63.5	17.5	100	calm			0		10			½ h'r	½ h'r	light	s.	dense fog.
S. S. Daniel Steinmann, N. 42° 18′, W. 69° 39′						calm			0		10			o	o	sm'h		dense fog.
S. S. Britannic, N. 51° 24′, W. 14° 30′ †	29.64	752.8	53	11.7		w.			6		8		w.	2 h'r	2 h'r	high	w.	raining.
S. S. Celtic, N. 50° 09′, W. 21° 54′ †	29.59	751.6	61	16.1		nw.			5		5		n.	sh'rs	sh'rs	h'vy	w.	squally.
Bk. Arda, N. 23° 44′, W. 34° 29′ †	30.01	762.2				s.			1		2		s.	o	o	mod.	s.	squally.
Bk. Ariadne, N. 59° 33′, W. 10° 40′			54	12.2	87	sse.			4		3		ssw.	14 h'r	14 h'r	high	ssw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Abbie Clifford, N. 21° 29′, W. 60° 20′†	30.12	765.0	82	27.8		e.			6		2		e.	0	0	mod.	e.	clear.
Schr. Arthur Burton, Charleston, S.C. †	29.91	759.7				ne.			5		10		ne.	3 h'r	3 h'r	sm'h		misty.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.14	765.5	73	22.8		calm			0									cloudy.
S. S. Antonio Lopez, Cadiz, Spain*	30.15	765.8	64.5	18.1	78	wnw.			1		0			0	0			clear.
Schr. Adda Doane, N. 14° 22′, W. 55° 39′ *†	30.00	762.0				ene.			3		2		e.	0	0	sm'h		clear.
Bg. Belle of the Bay, N. 28° 55°, W. 93° 56′ †	29.89	759.2				sse.			3		4		ssw.	½h'r	½h'r	sm'h	se.	fair.
S. S. Benledi, N. 37° —′, E. 3° 15′ *	30.02	762.5	68	20.0	82	var.			1–2		9		w.	2 h'r	2 h'r	con.	w.	showery.
S. S. Burswell, N. 36° 42′, E. 0° 15 *†	30.11	764.8	81	27.2		wsw.			1		3		w.	0	0	sm'h		clear.
Bk. Ceylon, N. 8° 03′, W. 30° 20′†	29.96	761.0	82	27.8	91	ne.			1		10			2 h'r	2 h'r	mod.	se.	rainy.
Schr. Clotilde, N. 25° 45′, W. 78° 03′†	30.04	763.0	80	26.7		s.			3		8		s.	0	0	sm'h		cloudy.
Schr. C. R. Flint, Demerara, British Guiana †	30.00	762.0	83	28.3							2		ene.	0	0			clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I.*†	30.00	762.0	82	27.8	83	ese.			2		4		ese.	3 h'r	3 h'r			fair.
Bk. Diamant, N. 49° 44′, W. 8° 45′	29.86	758.5	59.9	15.5	93	s			4		5		ssw.	4 h'r	4 h'r	4	sw.	fair.
S. Dynomene, N. 9° 18′, W. 23° 18′	29.95	760.7	87	30.6	76	calm			0		3			0	0	light	s.	d. clouds
S. E. J. Spicer, N. 41° 53′, W. 39° 50′	30.24	768.1	64	17.8	89	nnw.			5		10		nw.	8 h'r	8 h'r	mod.	nw.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	29.87	758.7	81	27.2		ne.			1					0	0			fine.
S. Festina Lente, N. 49° 36′, W. 38° 26′	30.03	762.7	51	10.6		n.			5–6		8		n.	4 h'r	4 h'r	h'vy	n.	raining.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.30?	769.6?	60	15.6	100	ese.			1		10		calm	0.02	0.5			foggy.
S. Gatherer, N. 50° 35′, W. 9° 22′*	29.81	757.2	59	15.0	88						9		var.	¼ h'r	¼ h'r			cloudy.
Bg. George, N. 35° 15′, W. 73° 50′ *†	30.12	765.0	79	26.1		sse.			4		10		s.	sh'rs	sh'rs	mod.	sse.	cloudy.
Bk. Galeon, N. 20° 38′, W. 53° 11′†	30.05	763.3	81.5	27.5		ene.			5		4		ene.	rain	rain		ne.	squally.
Bk. Hattie G. McFarland, Sandy Hook, N. J.†	30.13	765.3	61	16.1		calm			0		fg.			15 h'r	15 h'r			
S Hedwig, N. 21° 02′, W. 58° 40′	30.08	764.0	82.0	27.8	85	nne.			5		5		var.	½ h'r	½ h'r	3	ne.	fine.
Bk. Heinrich & Tonio, N. 49° 08′, W. 11° 20′ †	29.78	756.4	52.5	16.9		sw.			4		6		sw.	5 h'r	5 h'r	mod.	sw.	fair.
Schr. Isabel Alberto, N. 24° 28′, W. 82° 26′†	30.03	762.7				e.			2		3		e.	0	0	light	e.	fair.
Bk. Ibis, N. 38° 00′, W. 74° 35′*	30.16	766.1	67	19.4		ese.			3		6		se.	0	0	long	se.	
Schr. Jennie N. Huddell, Wilmington, N. C.†	29.96	761.0	70	21.1	95	se.			3		10		se.	6 h'r	6 h'r			raining.
Bk. John H. Pearson, N. 33° 58′, W. 10° 12′						ne.			1				ne.	0	0	sm'h		clear.
Schr. Jas. Slater, N. 38° 27′, W. 71° 47′ †	30.20	767.1				sse.			3		5		s.	½ h'r	½ h'r	light	s.	
Schr. John Bracewell, Bergen Point, N. J.†	30.18	766.6				ene.			2					12 h'r	12 h'r			foggy.
Bg. Josefa, Little Glace Bay, N. S.†	30.19	766.8				sw.			2		8		sw.	1 h'r	1 h'r			cloudy.
Bk. Lady Hincks, N. 39° 30′, W. 67° 55′*†	30.30	769.6																
Bg. Lilian, N. 27° 50′. W. 70° 04′ †	30.17	766.3	81	27.2		ese.			3		3		se.	1 h'r	1 h'r	r'gh	var.	fair.
Bg. L. & W. Armstrong, Barnegat, N. J.*†	30.10	764.5				calm			0					0	0	mod.	sse	dense fog.
S. S. Madrid, N. 43° 43′, E. 34° 00′ †	30.06	763.5	65	18.3	84	wsw.			3		1		wsw.	0	0			fair.
Bk. Matilda C. Smith, N. 45° 32′, W. 26° 20′*†	29.90	759.4				nw.			6		5		nw.	12 h'r	12 h'r	rg'h	nw.	clearing.
Bk. Matthias, N. 38° 08′, W. 47 19′ *†	30.27	768.8	73.0	22.8		ne.			3–4		6		ene.	1 h'r	1 h'r	2	e.	squally.
Schr. Norena, N. 33° 30′, W. 67° 00′						s.			2		1		sw.	2 h'r	2 h'r	mod.	var.	fine.
Bk. National Eagle, N. 36° 30′. E 12° 24′						nnw.			6		8		nnw.	0	0	mod.	nw.	fair.
S. S. Radnorshire, N. 35° 00′, E. 17° 42′*†.	29.96	761.0				ssw.			4		2		wsw.	sq 'lls	sq 'lls	mod.	wsw.	squally.
Schr. Rollin Sanford, Milton, Fla.†	29.98	761.5				n			1					0	0			foggy.
Bg. Rising Sun, N. 16° 30′, W. 58° 13′†	30.05	763.3	84	28.9		e.			5		1		e.	0	0	mod	e.	clear.
Bk. Rosalie, N. 9° 17′, W. 26° 52′*†	29.97	761.2				se.			2		0			0	0	light	se.	clear.
Bk. Saga, N. 53° 36′, E. 3° 10′ *†	30.05	763.3	56	13.3		var.			4		3?		se.	0	0	long	nne.	cloudy.?
S. Salisbury, N. 39° 03′, W. 16° 06′	30.02	762.5	69.4	20.8	87	sw.			5		5 km		sw.	3 h'r	3 h'r	r'gh	sw.	fair.
Bk. Samuel B. Hale, N. 34° 12′, W. 32° 10′*†	30.15	765.8				sw.			3				w.	0	0	short	sw.	fair.
Bk. Sunbeam, N. 47° 57′, W. 15° 06′ †	29.74	755.4	62	16.7	88	sw.			6		10		wsw.	6 h'r	6 h'r	sm'h		light rain.
Bk. Scud, N. 12° 08′, W. 60° 16′*†	29.96	761.0	86	30.0		e.			4		2		e.	0	0	mod.	ne	fine.
S. St. Francis, N. 36° 44′, W. 47° 57′			74	23.3		e.			5		6		e.	0	0	sm'h	w.	d clouds.
Schr. Walter L. Plummer, N. 24° 39′, W. 35° 53′*†	30.12	765.0				w.			1		5		sw.			mod.	nw.	fair
S. S. Alps, off Barnegat, N. J			68	20.0		calm			0								se.	dense fog.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 27° 12′, W. 44° 52′	30.05	763.3	67.5	19.7	72	sse.			5		5	s.				4	sse.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.21	767.3	63	17.2	89	ese.			1		3	ne.						blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.23	767.8	64.7	18.2	86	ne.			3		2							blue sky.
H. M. S. Tyne, S. 27° 48′, E. 60 24′						se.			3		9	sse.				4	s.	d. clouds.
H. P. M. S. Rainha de Portugal, Landana, Guinea	29.93	760.1	78.6	25.9	80	ssw.			3		7		ssw.	0	0	3	ssw.	d. clouds.
U. S. S. Brooklyn, S. 37° 32′, W. 23° 41′*	30.04	763.0	58	14.4	76	w.	4	1.8			10		w.	0	0	sm'h		cloudy
U. S. S. Nipsic, Montevideo, Uruguay*	30.22	767.6	63	17.2	83	ene.			2		8		ne.			sm'h		clear.
S. S. Sirius, Rio de Janeiro, Brazil	30.06	763.5				se.			1		10			12 h'r	12 h'r			cloudy.
Bk. Alpheus Marshall, S. 0° 18′, W. 21° 56′ *†	29.92	760.0	78	25.6	91	sse.			3		0			0	0	light	sse.	clear.
Bk. Aureola, Rio de Janeiro, Brazil †	30.02	762.5	82	27.8		calm			0		10			10 h'r	10 h'r			overcast.
Bk. Adelaide, S. 15° 00′, W. 35° 54′ *†	30.05	763.3	81	27.2		nne.			4		2		ne.	0	0	mod.	e.	hazy.
S. David Crocket, S. 38° 41′, W. 32° 09′*	30.11	764.8	56	13.3	72	wsw.			4		6		wsw.	0	0	sm'h	wsw.	d. clouds.
Bk. E. L. Pettingill, S. 47° 37′. W. 64° 20 *†	29.80	756.9	54	12.2		n.			6		0			0	0		n.	clear.
Bk. Grey Eagle, S. 18° 32′, W. 35° 45′ *†	29.85	758.2				nnw.			1		4		nw.	0	0	h'vy	ssw.	fair.
Bg. John Wesley, Natal, Brazil.*†	29.91	759.7	81	27.2		e.			2		2		e.	0	0			clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.17	766.3				e.			2		1			0	0			clear.
S. S. Mendoza, S. 18° 21′, W. 33° 17′ †	30.00	762 0				ne.			2		5		nne.	6 h'r	6 h'r	mod.	nne.	
Bk. Mohican, S. 40° 01′, E. 5° 20′	29.75	755.6	57	13.9		n			6		10		nnw.	0	0	long	nw.	cloudy.
Bk. Pilgrim, S. 6° 58′, W. 20° 33′*†	30.10	764.5				e.			3		5?		e.	1 h'r	1 h'r	mod.	e.	clear.?
Bgt. Willie, Montevideo, Uruguay*†	30.18	766.6	66	18.9		e.			3		1		e.	0	0	sm'h		clear.
Bk. Childwall, S. 16° 51′, W. 32° 41′*	29.88	758.9	76	24.4		nne.			4		9		e.	0	0	light	e.	cloudy.
Bk. Achille F, S. 19° —′, W. 35° —′ †	30.00	762.0	74	23.3		ne.			2		7		w.	rain	rain			cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan			73	22.8	85	wsw.			2–7		5	sw.				4	s.	squally.
H. M. S. Champion, Singapore, Malay Peninsula	29.88	758.9	81	27.2	83	calm			0		10							d. clouds.
H. M. S. Flying Fish, N. 32° 45′, E. 129° 52′	30.02	762.5	71	21.7	75	n.			2		8	w.						d. clouds.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.12	765.0	72	22.2		calm			0		5							d clouds.
H. P. M. S. Tamega, Canton, China	30.08	764.0	81.0	27.2	83	sse.			2		2			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	29.89	759.2	69	20.6	80	sw.			1		0			2.10	53.3			clear.
U. S. S. Essex, Nagasaki, Japan	30.03	762.7	72	22.2	80	nne.			3		8		ne.					cloudy.
U. S. S. Hartford, Corinto, Nicaragua*	29.84	757.9	78	25.6	91	ne.			1		10			h'vy	h'vy			cloudy.
U. S. S. Juniata, Canton, China	30.08	764.0	81	27.2	96	s.			1		5			0	0			fair
U. S. S. Monocacy, Ross Island, Corea	30.10	764.5	65	18.3	89	se.			1		5		calm					fair.
U. S. S. Pensacola, Yokohama, Japan *	29.69	754.1	73	22.8	76	nw.			2		2			h'vy	h'vy			clear.
U. S. S. Ranger, Mare Island, Cal	30.02	762.5	50	13.3	81	calm			0		0			0	0			clear
U. S. S. Richmond, Yokohama, Japan	29.83	757.7	72	22.2	85	sw.			2		0			0	0			clear.
S. S. Oceanic, N. 38° 13′, E. 162° 32′	30.28	769.1	63	17.2	83	wsw.			2		7			sh'rs	sh'rs	3	w.	cloudy.
S. S. City of Chester, Hookton, Cal.†	29.98	761.5	45	7.2	84	calm			0									hazy
S. S. Oregon, N. 44° 02′, W. 123° 53′†	30.19	766.8	56	13.3	87	n.			2		8		n.			mod.	nw.	misty.
S. S. Orizaba, N. 32° 40′, W. 117° 14′ *†	29.97	761.2	64	17.8	67	se.			1				se.	0	0	sm'h	e.	foggy.
S. S. State of California, N. 40° 56′, W. 124° 30′†	30.01	762.2	50	10.0	93	nnw.			5		0					h'vy	nw.	clear.
S. S. Victoria, San Francisco, Cal.†	29.94	760.5	53	11.7	88	w.			3		10		w.					hazy.
S. S. City of Pekin, N. 22° 16′, E. 114° 55′†	30.12	765.0	76	24.4	82	e.			4		2		e.	0	0	sm'h		clear.
S. S. City of Tokio, N. 41° 14′, W. 170° 01′†.	30.23	767.8	59	15.0	76	wsw.			3		4		wsw.	0	0	mod	nw.	fair.
S. S. City of Rio de Janeiro, N. 37° 44′, W. 123° 23′†	30.00	762.0	50	13.3	94	s.			2		10			0	0	sm'h		foggy.
S. S. Colima, San Jose, Guatemala†	29.93	760.2	74	23.3	90	se.			2		10		calm	0.60	15.2	mod.	se.	overcast.
S. S. Granada, Mazatlan, Mexico†	29.87	758.7	80	26.7	87	calm			0		0			0	0	mod.		clear.
S. S. San Blas, Panama, Panama†	29.88	758.9	80	26.7		calm			0		7		calm	0	0			gloomy.
S. E. B. Sutton, N. 2° 30′, W. 124° 00′ *†	29.96	761.0	76	24.4	91	se.			4		4		se.	0	0	mod.	var.	fair.
S. Parker M. Whitmore, N. 37° 00′, W. 123° 00′ *†	30.00	762.0	52	11.1		s.			1		fg.			c	0	long	nw.	foggy.
U. S. S. Palos, Canton, China	30.09	764.3	79	26.1	70	se.			1		2		calm					clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.98	761.5	76.3	24.6	91	calm	.....	.....	0	.....	7	.....	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Magpie, S. 6° 05′, E. 106° 48′	29.86	758.4	83.5	28.6	75	ne.	.....	.....	3	.....	0	.....	.....	.....	.....	3	ne.	misty.
H. M. S. Mutine, S. 22° 35′, W. 71° 50′	30.06	763.5	61	16.1	.....	s.	.....	.....	2	.....	3	.....	.....	.....	.....	2	s.	blue sky.
H. M. S. Nelson, Sydney, N.S. W	29.67	753.6	54	12.2	68	calm	.....	.....	0	.....	6	w	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Iroquois, Callao, Peru	30.07	763.8	62	16.7	88	sse.	.....	.....	2	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili *	30.02	762.5	57	13.9	94	w.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Onward, Callao, Peru*†	30.13	765.3	61	16.1	88	sse.	.....	.....	2	.....	10	.....	sse.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili *	30.02	762.5	59	15.0	82	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
S. S. Australia, Sydney, N. S. W.	29.99	761.7	66	18.9	100	ne.	.....	.....	2	.....	6	.....	nne.	0	0	.....	.....	cloudy.
S. S. City of New York, S. 29° 19′, W. 179° 35′†	29.93	760.2	65	18.3	84	wsw.	.....	.....	6	.....	8	.....	wsw.	0	0	h'vy	sw.	squally.
S. S. City of Sydney, S. 20° 25′, W. 173° 25′*†	29.93	760.2	80	26.7	96	ene.	.....	.....	2	2 ck	.....	ne.	.....	.....	.....	light	ne.	clear.
S. Sovereign of the Seas, S. 5° 18′, W. 107° 00′ *†	30.13	765.3	73	22.8	90	ese.	.....	.....	4	.....	9	.....	se	sh'rs	sh'rs	mod.	sse.	showery.
S. Armenia, S. 29° 40′ W. 123° 30′ *	30.25	768.3	65	18.3	78	ene.	.....	.....	5	.....	10	.....	ene.	4 h'r	4 h'r	r'gh	s;e.	rainy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9	.....	se.	.....	.....	4	.....	8	.....	se.	.....	.....	long	se.	cloudy.
S. Storm King, S. 4° 40′, W. 123° 10 *†	30.00	762.0	.....	.....	.....	ese.	.....	.....	4	.....	1	.....	ese.	0	0	mod.	var.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.93	760.2	79	26.1	91	ese.	.....	.....	2	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.99	761 7	79	26.1	86	ene.	.....	.....	3	.....	4	ene.	.....	.....	.....	3	ene.	showery.
H. M. S. Woodlark, Shat el Arab river, Turkey	30.02	762.5	92.5	33.6	47	nw.	.....	.....	1	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
Bk. Bore, S. 34° 29′, E. 26° 42′ *†	30.53	775.4	74	23.3	.....	ssw.	.....	.....	3	.....	9	.....	nw.	2 h'r	2 h'r	mod.	w.	cloudy.
S. Frank N. Thayer, S. 30° 50′, E. 37° 48′*†	29.99	761.7	75.5	24.2	90	ne.	.....	.....	1	.....	10 kn	nne.	sse.	0	0	mod.	sw.	gloomy.
Bk. Great Surgeon, S. 36° 50′, E. 78° 00′*†	30.28	769.1	56	13.3	.....	s	.....	.....	4	.....	4	.....	w.	1 h'r	1 h'r	mod.	s.	fair.
S. S. Galatia, N. 7° 09′, E. 78° 56′†	29.77	756.1	78	25.6	91	w.	.....	.....	4	.....	8	.....	wsw.	6 h'r	6 h'r	mod.	w.	showery.

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



UNITED STATES OF AMERICA.

By Order of the Secretary of War.

W.B. Hazen, Chief Signal Officer.

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 14, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.0	70.5	21.4	78	se.			1		0			0	0	clear	Roziere.
Algiers			30.09	764.2	67.3	19.6	76	nw.			3		0			0.272	6.9	clear	Thève.
La Galle			30.00	761.9	68.7	20.4	61	nnw.			4		5			0.610	15.5	cloudy	Fonfréde.
Tunis			30.01	762.3	68.0	20.0	58	nnw.			3		2			0	0	fair	Delord.
Saida			30.16	766.0															Pérés.
Tebessa			30.10	764.4	60.8	16.0	69	n.			1		3			0.354	9.0	pretty fair	St. Martin.
Geriville					66.9	19.4	14	nnw.			1		0			0	0	clear	Forfert.
Laghouat			30.13	765.2	68.7	20.4	26	n.			2		0			0	0	clear	Abraham.
Biskra			30.04	763.0	80.2	26.8	34	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.06	763.5	64.0	17.8	55	sw.	9	4.0			9 k			0	0	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.94	760.5	30.04	763.0	55.0	12.8	94	w.	3	1.3		0	0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.61	752.0	30.15	765.9	60.8	16.0	56	e.			3		8			0.012	0.3		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.53	750.1	30.30	769.7	54.7	12.6	75	ene.	19.9	8.9			10			0	0		Dr. Wierzbiski
Eperies	29.38	746.3	30.26	768.6	59.4	15.2	66	calm			0	4 cs				0	0		Julius Mikolik.
Gratz																			Andreas Rospini.
Hermannstadt	28 76	730.5	30.18	766.6	60.4	15.8	67	e.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.6	30.11	764.7	53.6	12.0	82	ene.			3		1			0	0	clear	The Staff.
Lemberg	29.39	746.5	30.39	772.0	50.4	10.2	86	e.			4		10			0	0		Dr. T. Stanecki.
Pola	29.95	760.8	30.06	763.6	64.0	17.8	59	e.			6		10			0	0		I. R. Hydrographic Office.
Szathmar	29.74	755.5	30.21	767.2	64.4	18.0	55	e.			4		3			0	0		Joseph Midliuszky, S. J
Szegedin																0.138	3.5		Karl Stancel.
Trieste	30.02	762.5	30.12	765.0	64.6	18.1	45	e.			4		1			0	0		Royal Academy.
Vienna	29.52	749 9	30.24	768.1	56.5	13.6	71	se.			1		9			c	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.52	749.8	29.61	752.1	53.2	11.8	91	sse.	23	10.3			10			0.810	20.6	raining	W. Boswell.
Armagh, Observatory	29.25	742.9	29.48	748.8	57.3	14.1	87	s.	9	4.0			10					raining	S. Oall.
Bidston, Liverpool Obs'y			29.64	752.8	56.1	13.4	92	se.	28	12.5			10					raining	John Hartnup.
Bolton, Sharples	29.15	740.4	29.68	753.9	55.6	13.1	87	s.	7	3.1			10					raining	Thomas Mackereth.
Bradford, Yorkshire																0.20	5.1		McLandsborough & Preston.
Cardington	29.76	755.9	29.87	758.7	63.0	17.2	64	s.			6.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.77	756.1	29.94	760.5	58.6	14.8	81	sw.			4		8					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.47	748.5	29.69	754.1	57.9	14.4	99	s.			4		10					raining	The Staff.
Fort Napier, Natal	27.75	704.8	29.97	761.2	66.8	19.3	52	e.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.70	754 4	29.94	760.5	80.0	26.7	96	n.			7		2					raining	J. W. Smith.
Galway, Queen's College	29.46	748.3	29.50	749.3	51	10.6	93	w.			1		6			0.71	18.0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.06	763.5	71.2	21.8	91	e.			3		4					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.26	743.2	29.46	748.5	57.2	14.0	89	sse.			4							raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.74	755.4	29.91	759.7	62.5	16.9	72	s.			5		7					d. clouds	The Staff.
Guernsey	29.56	750.8	29.86	758.4	55.2	12.9	98	sse.			3		10			0.55	14.0	raining	A. Collenette, F. M. S
Kew, Observatory	29.87	758.7	29.90	759.4	61.1	16.2	70	s.	24	10.7			6					d. clouds	The Staff.
Leicester, Museum	29.56	750.8	29.81	757.2	62.3	16.8	66	s.			1		9					overcast.	J. C. Smith.
Malta, Mediterranean	29.70?	754.4?	29.78?	756.4?	71.6	22.0	70	nw.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.09	764.3	82.0	27.8	85	e.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.25	742.9	29.76	755.9	58.2	14.6	85	sse.			6		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.61	752.1	29.84	757.9	60.0	15.6	71	sse.			6		6					d. clouds	The Staff.
Plymouth	29.64	752.8	29.71	754.6	57.8	14.3	98	s.			6		10					raining	John Merrifield.
Sandwick Manse, Orkneys.	29.37	746.0	29.47	748.5	53.2	11.8	93						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.02	762.5	30.08	764.0	71.2	21.8	64	ne.			2		5					d. clouds	W. H. Lyne.
Sheffield	29.47	748.5	29.74	755.4	61.2	16.2	77	sw.			4		8			0.07	1.8	overcast	W. F. Cooper.
Silloth Rectory	29.56	750.8	29.58	751.3	56.9	13.8	92	s			3		10			0.305	7.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.69	754.1	56.2	13.4	85	s.	30	13.4			10					drizzling	Rev. S. J. Perry.
Strathfield Turgiss					59.7	15.4	76	s.			1.3		10					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.64	752 8	29.72	754.9	60	15.6	94	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.59	751.6	29.61	752.1	54.7	12.6	74	w.	13	5.8			4			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.60	751.8	30.00	762.0	67.6	19.8	65	nw.	0.6	0.3		9 ck	0	w.		0.11	2.8	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	29.54	750.3	29.58	751.3	46.0	7.8		se.	10	4.5			10 n			0.28	7.1	raining	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757 7	29.87	758 7	58	14.4	97	calm	0	0			10 n			0.560	14.2	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.79	756 7	29.85	758.2	47	8.3	93	e.	7	3.1			10 n		e.	0.03	16.0	light rain	G. A. Blair.
Cornwall, Ontario	29.50	749.3	29.69	754.1	52.1	11.2	99	e			1		10 n			0.390	9.9	overcast	Jas. Smith, M. A.
Dalhousie, N. B	29.84	757.9	29.88	758.9	41.5	5.3		e.			5		10 n			1.07	27.2	raining	H A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	29.77	756.1	29.80	756.9	38	3.3	89	ne.	40	17.9			10 n			0.60	15.2	heavy rain	J. McWilliams.
Fort Garry, Manitoba*	29.40	746.7	30.27	768.8	31	— 0.6	88	w.	2	0.9			10 ks		W.	0	0	cloudy	James Stewart.
Fredericton, N. B	29.75	755.6	29.81	757 2	55.0	12.8	94	se.	4	1.8			10 n			1.010	25.6	raining	Prof. Thos. Harrison
Grand Manan, N. B	29.75	755.6	29.81	757.2	60	15.6	96	sw.	27	12.1			10 n		s.	0.45	11.4	light rain	J. Chipman Seeley
Granton, Ontario	28.86	733 0	29.98	761.5	43.0	6.1	100	nw.	9	4.0			10 d			0.27	6.9	overcast	Jas. Grant.
Halifax, N. S*	29.83	757.7	29.96	761.0	62	16.7	100	s.	5	2.2			10 n			0.119	3.0	light rain	A. Allison.
Hamilton, Ontario	29.56	750 8	29.95	760 7	49.9	9.9	95	sw.			2	10 ck	0	sw.		0.73	18.5	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.48	748.8	29.81	757.2	51	10.6	96	nw.	3	1.3			10 n		w.	0.65	16.5	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S																			C. H. Rigby.
London, Ontario	29.08	738.6	29.98	761.5	46.7	8.2	92	n.			2		10 ks			0.010	0.3	overcast	E. B. Reed.
Medicine Hat, N. W. T																			John Ewart.
Minnedosa, N. W. T	28.25	717.5	30.23	767.8	29	— 1.7	88	s.	1	0.4			10 ks		sw.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.52	749.8	29.72	754.9	48	8.9	100	n.	6	2.7			10 n			0.67	17.0	light rain	W. H. McLeod, C. E.
Ottawa, Ontario	29.54	750.3	29.76	755.9	43.9	6.6	97	n.					10 s			0.250	6.3	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.23	742.4	29.95	760.7	36	2.2	100	n.	14	6.3			10 n		n	0.48	12.2	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.23	742.4	29.97	761.2	45.7	7.6	76	ne.			3		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.67	753.6	30.41	772.4	30	— 1.1	92	sw.	4	1.8			10 n			0	0	gloomy	W. P. Cooke.
Port Dover, Ontario	29.25	742.9	29.93	760.2	53	11.7	93	w.	9	4.0		10 c	0	sw.		0.41	10.4	fair	A. Morgan
Port Stanley, Ontario	29.30	744.2	29.95	760.7	49	9.4	89	nw.	10	4.5		2 ck	5 n	w.	nw.	0.02	0.5	cloudy	M. Payne.
Qu Appelle, N. W. T	27.82	706 6	30.17	766.3	30	— 1.1	96	se.	8	3.6		0	8 s		s.	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.33	745.0	29.69	754.1	42	5.6	100	ne.	24	10.7			10 n		ne.	0.15	3.8	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.45	748.0	29.92	760.0	38	3.3	89	w.	10	4.5			10 s		nw.	0.56	14.2	light rain	W. H. McIntyre.
St. Andrews, N. B	29.71	754.6	29.76	755.9	59	15.0	100	sw.	4	1.8			fg.			1.21	30.7	dense fog	
St. John, N. B	29.68	753.9	29.82	757.4	50.0	10.0	100	s.	8	3.6			10 n			1.368	34.7	raining	G. Hutchinson.
Saint John's, N. F	29.89?	759.2?	30.14?	765.5?	52	11.1	93	se.			1	0	4 s?			0	0	cloudy?	J. Higgins.
St. Pierre, N. F			30.00	762 0	54.7	12.6		calm			2					inap.	inap.		The Commandant.
Saugeen, Ontario*	29.28	743.7	30.01	762.2	39	3.9	89	n.	24	10.7			10 s			0.43	10.9	cloudy	
Stratford, Ontario	29.70	754.4	30.00	762.0	43.0	6.1	96	nw.	11.5	5.1			10 s			0.344	8.7	d. clouds	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	Weather.	Observers
Canadian.—Continued.																			
S. W. Point, Anticosti	29.98	761.5	30.02	762.5	37	2.8	82	se.			1		10 n			0.14	3.6	heavy rain	Miss Grace Pope.
Sydney, C. B.	29.96	761.0	30.02	762.5	54	12.2	96	se.	1	0.4			10 n			0.16	4.1	cloudy	[illegible], C. E.
Toronto, Ontario*	29.52	749.8	29.90	759.4	51	10.6	90	nw.	12	5.4			10 s		nw.	0.28	7.1	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.94	735.1	30.01	762.2	47.2	8.4	89	e.	18	8.0			10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S.*	29.84	757.9	29.91	759.7	60	15.6	100	s.	12	5.4		fg	fg			0.13	3.3	light rain	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.5	67.3	19.6	83	se.	6.5	2.9		0	1 k			0.200	5.1	fine	I. Garfelt.
Springbok Fontein	27.90	708.6			76	24.4	37									0	0		J. T. Eustace
Chilian.																			
Coquimbo	29.97	761.2	30.05	763.2	58.1	14.5	85	w.			2	10						cloudy	Samuel Redolez.
Iquique	29.95	760.8	29.98	761.5	66.2	19.0	65	s.			3							fair	Rafael Moreno.
Niebla	29.50	749.4	29.61	752.1	52.9	11.6	85	nw.			4	0	4 n		nw.	0	0		Federico Kühling.
Punta Caldera	29.98	761.5	30.07	763.7	57.7	14.3	83	sw.			1	0	8 n		sw.			fair	Manuel Tobar.
Punta Corona	29.66	753.3	29.85	758.1				nw.			6	3	0	se.		0.890	22.6	clear	Francisco Alvarado.
Valparaiso	29.87	758.7	29.96	760.9	56.7	13.7	86	sw.			1	10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.33	643.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai.	30.13	765.2	30.15	765.8	61.0	16.1	83	se.	4.9	2.2		4 c	0	w.		0	0	fair	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.30	769.7	30.35	770.9	52.2	11.2	80	se.	18	8			9						Oversergent Fischer.
Fanoe	30.16	766.1	30.18	766.6	55.6	13.1	81	sse.			6		0						Overloerer Lauridsen.
Godthaab, Greenland	29.45	748.0	29.49	749.1	21.6	—5.8	72	nne.			4		1						S. Kleinschmidt.
Jacobshavn, Greenland	29.55	750.6	29.60	751.8	12.6	—10.8		s.			2		7						
Stykkisholm, Iceland	28.92	734.6	28.97	735.7	38.8	3.8	75	ne.			1		2						A. O. Thorlacius.
Thorshavn	29.31	744.5	29.34	745.1	51.1	10.6	87	ssw.	18	8			8						Overloerer Bergh.
Vestervig	30.13	765.2	30.72	767.5	53.4	11.9	74	sse.			4		0						Loerer Oesterbol.
Egyptian.																			
Cairo	29.84	757.9			85.5	29.7		e.	6.9	3.1			0			0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.46	748.2	30.11	764.7	57.9	14.4	95	s.			1		nk	se.	se.	0	0		M. Labroue, Director.
Alençon, Normal School	29.50	749.3	30.05	763.3	51.4	10.8	85	s.			1		5		n.	0	0	cloudy	M. Nicot, Director.
Avignon, Normal School	30.02	762.4	30.10	764.4	69.8	21	62	n.			1		0			0	0	clear	M. Giraud, Direc
Bar-sur-Seine	29.50	749.2	30.05	763.3	60.1	15.6	67	s.			1		0			0	0	clear	M. Saillard, Directo
Beauvais, Normal School	29.78	756.4	30.05	763.2	53.6	12	87	ese.			1		0			0	0	clear	M. Frère Eugène Marlè.
Besançon, Normal School	29.20	741.7	30.09	764.2	47.3	8.5	89	s.			1		1		sw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.02	762.4	62.6	17.0	72	se.			1		8			0.012	0.3	covered	M. Rayet, Director.
Bourges, Normal School	29.47	748.6	30.02	762.6	55.4	13	70	se.			1	c		se.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.65	753.0	29.87	758.8	59.7	15.4	96	sw.			4		10		sw.	0.039	1.0		M. de Kermarée, Dir.
Caen, Normal School	29.86	758.4	29.93	760.3	64.0	17.8	71	ssw.			2				sw.	0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.71	754.7	30.04	762.9	54.1	12.3	88	sw.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.60	751.8	30.15	765.7	57.6	14.2	58	ese.			2		0			0	0	clear	M. Noel, Director.
Clermont-Ferrand Obs'y	28.69	728.7	30.00	762.1	67.8	19.9	42	se.			2		1 k			0	0		M. Allnard, Director.
Cluny, Normal School	29.25	742.9	30.11	764.8	52.0	11.1	91	sw.			1					0	0		M. de Villemontée, Dir.
Cominercy, Normal School	29.24	742.6	30.10	764.6	51.3	10.7	86	nw.			1		2 k	nw.	nw.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.63	701.7	30.00	762.1	63.0	17.2	40	calm			0		0			0	0		M. Jarach, Director.
Grésaque, du Rhone	28.97	735.7	30.06	763.6	67.3	19.6	50	e.			1		3		s.	0.04	1.		M. Kinn, Director.
Grenoble, Normal School	29.32	744.6	30.06	763.5	64.0	17.8	63	ese.			1		k		se.	0	0		M. Ablard, Directoor
Guéret, Normal School	28.48	723.4	30.05	763.2	61.7	16.5	69	se.			1		2 ks		se.	0	0	slightly cl'dy	M. Delorme, Dir.
Lambaile, Normal School	29.58	751.3	29.85	758.3	58.1	14.5	93	s.			6		5		s.	0.24	6.	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.43	747.5	29.97	761.3	70.2	21.2	48	wsw.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.81	757.2	29.91	759.8	59.4	15.2	91	sse.			3		10			0.488	12.4	raining	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.04	737.5	30.10	764.5	55.2	12.9	77	e.			1		5 n		sse.	0	0	cloudy	M. André, Director
Mans, Normal School	29.71	754.5	30.01	762.3	59.4	15.2	76	sw.			4		2		sw.	0.008	0.2	slightly cl'dy	M. Richard, Director
Marseille, Observatory	29.81	757.2	30.08	764.0	68.2	20.1	54	s.			2		2			0	0		M. Stephan, Director.
Montlouis	24.87	631.7	29.71	754.7	52.7	11.5	53	sw.	9.4	4.2			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.04	763.0	67.3	19.6	81	ene.			4		1	sw.		0	0	clear	M. Galzin, Director.
Nancy	29.34	745.3	30.15	765.8	43.9	6.6	94	nw.			1		10 n			0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.84	758.0	30.00	762.1	61.0	16.1	96	ssw.			1		10 n;kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.98	761.5	30.10	764.4	63.3	17.4	75	se.	7.4	3.3			1		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.27	540.3			34.5	1.4		nw.			1		5			0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.06	738.2	30.12	765.0	62.2	16.8	70	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.21	640.3			46.6	8.1	84	s.			2		2			0.008	0.2		M. Allnard.
Rochefort, Naval Obs'y	30.00	761.9	30.03	762.7	62.2	16.8	78	s.			1		8		s.	0.295	7.5	¾ covered	Lt. E. Lecante, Director.
Roche-sur-Yon, N. School	29.76	755.8	29.97	761.2	61.9	16.6	77	se.			4		10	se.	se.	0	0	covered	M. Brolier, Director.
Rodez, Normal School	27.99	711.0	30.15	765.7	54.9	12.7	86	nw.			1		ck	se.		0.059	1.5		M. Seger, Director.
Rouen, Normal School	30.02	762.4	30.06	763.6	58.3	14.6	82	e.			1					0	0	clear	M. Mouillot, Dir.
St Lô	29.79	756.7	29.93	760.3	59.7	15.4	71	sw.			2		10		sw.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.90	759.4	30.06	763.6	54.1	12.3	89	sw.			1		8		se.	0.012	0.3	very cloudy.	M. Renou, Director.
Toulouse, Observatory	29.36	745.7	30.08	764.1	66.6	19.2	89	se.			2		1	w.		0	0	clear	M. Baillard, Director.
Tours	29.84	757.8	30.01	762.3	61.2	16.2	75	nne.			1			s.	ne.	0	0		M. de Tastes.
Versailles, Observatory	29.56	750.7	30.05	763.2	52.5	11.4	90	se.			2		0			0	0	clear	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.92	759.9	30.07	763.7	64.0	17.8	82	w.	11.9	5.3			9 k		w.	0	0		M. Cartier, Director.
German.																			
Ansbach	28.67	728.3	30.12	765.1	56.1	13.4	62	se.			4		1	se.		0	0		Prof. Jnedt.
Bamberg	29.32	744.7	30.17	766.2	59.7	15.4	56	se.			1					0	0		Prof. Dr. Hoh.
Berlin	30.17	766.3	30.32	770.0	52.5	11.4	83	e.			1		9			0	0		Dr. Lensch.
Breslau	29.81	757.2	30.35	770.8	55.2	12.9	72	e.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.68	753.8	30.14	765.6	50.9	10.5	86	calm			0		10	se		0	0		Albert Senz.
Cassel	29.42	747.2	30.13	765.3	58.3	14.6	61	e.			2		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.78	756.4	30.15	765.7	57.2	14.0	63	e.			1		0			0	0		Physical Society.
Friedrichshafen	28.70	729.0	30.13	765.3	51.8	11.0	81	sw.			2		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.18	766.6	30.27	768.9	49.3	9.6	88	se.			4		8			0	0		E. Preller.
Kiel	30.25	768.3	30.26	768.7	51.6	10.9	84	e.			1		1			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.82	757.5	30.25	768.3	55.0	12.8	78	e.			2		3	ese.		0	0		H. Leppig, Asst.
Magdeburg	30.07	763.8	30.26	768.7	52.3	11.3	85	ese.			2		10	e.		0	0		Weather Observatory.
Memel	30.55	776.0	30.60	777.2	47.8	8.8	48	se.			3		0					clear	Iassermann.
Munich	28.28	718.2	30.15	765.7	46.6	8.1	85	e.			2		8	ne		0	0		Central Station.
Neufahrwasser	30.32	770.1	30.34	770.5	51.8	11.0	52	se.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.56	750.9	30.09	764.3	54.0	12.2	76	sw.			2		6			0	0		Dicknether.
Stuttgart	29.15	740.5	30.06	763.4	52.7	11.5	76	e.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.28	769.0	30.30	769.6	50.2	10.1	84	se.			2		10			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.62	752.4	30.00	761.9	71.8	22.1		n.			1.0		6 k			inap.	inap.		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.81	757.2	29.86	758.5	90.6	32.6	52	s.	16.0	7.2			4	s.		0	0	d. clouds	
Deesa	29.38	746.2	29.84	758.0	90.3	32.4	38	ese.	9.0	4.0			4	se.		0	0	d. clouds	
Bombay	29.74	755.5	29.78	756.4	84.8	29.3	73	nnw.	16.0	7.2			6			0	0	blue sky	
Poona, Yarrowda	27.98	710.7	29.83	757.6	80.9	27.2	51	se.	20.0	8.9			9			0	0	d. clouds	
Trichinopoly	29.59	751.6	29.88	758.9	73.6	23.1	93	e.	0.2	0.1			10			0.26	6.6	overcast	
Bellary	28.33	719.5	29.79	756.7	79.5	26.4	61	e.	12.0	5.4			10	se.		0	0	gloomy	
Belgaum	27.27	692.6	29.81	757.1	74.8	23.8	75	ene.	2.0	0.9			4	w.	e.	0.05	1.3	d. clouds	
Lahore	29.18	741.2	29.92	760.0	83.0	28.3	48	calm	0	0			0			0	0	blue sky	
Roorkee	29.00	736.6	29.89	759.3	83.8	28.8	34	nw.					0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p.sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.34	745.1	29.89	759.2	90.2	32.3	23	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.86	732.9	29.90	759.5	79.7	26.5	49	ne.	6.0	2.7			9		e.	0	0	gloomy	
Jubbulpore	28.59	726.1	29.95	760.8	78.0	25.6	78	calm	0	0			10			0	0	gloomy	
Lucknow	29.54	750.4	29.92	759.9	87.1	30.6	50	calm	0	0			0			0	0	blue sky	
Allahabad	29.59	751.5	29.90	759.5	78.8	26.0	74	calm	0	0			10			0	0	overcast	
Patna	29.72	754.8	29.90	759.6	82.0	27.8	75	calm	3.0	1.3			10			0	0	overcast	
Hazaribagh	27.91	708.8	29.92	759.8	79.7	26.5	49	nnw.	2.8	1.2			10		nnw.	0	0	overcast	
Cuttack	29.84	758.0	29.92	760.0	80.0	26.7	86	calm	0	0			8			0.06	1.5	d. clouds	
Calcutta, Alipore	29.89	759.1	29.91	759.7	83.0	28.3	79	ssw.	0.5	0.2			0			0	0	blue sky	
Dhubri	29.79	756.7	29.91	759.7	80.6	27.0	77	calm	0	0			1			0	0	d. clouds	
Chittagong	29.82	757.3	29.91	759.6	83.9	28.8	79	wnw.	1.4	0.6			3			0	0	d. clouds	
Sibsagar	29.60	751.8	29.94	760.4	81.8	27.7	80	ne.	2.0	0.9			4		ssw.	0	0	d. clouds	
Jeypore	28.49	723.5	29.90	759.6	90.6	32.6	21	n.	3.3	1.5			2		n.	0	0	d. clouds	
Zanzibar	29.94	760.5			81.3	27.4	67	e.	3.7	1.7			7		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.73	755.1	30.13	765.4	64.2	17.9	42	e.	5.6	2.5			9			0	0		Prof. Giovanni Olodig.
Milan	29.05	753.1	30.17	766.2	59.4	15.2	55	nw.	2.5	1.1			9		ne.	0	0		Prof. G. V. Schiapparelli
Padua	30.02	762.4	30.13	765.2	64.2	17.9	48	e.	8.7	3.9			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.24	742.8	30.15	765.7	59.0	15.0	66	nw.	1.8	0.8			9		sw.	0	0		Prof. F. F. Denza.
Genoa	29.90	759.4	30.09	764.2	65.8	18.8	45	n.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.25	717.5	30.15	765.9	58.1	14.5	59	nw.			6		9			0	0		Prof. D. C. Bruno.
Pesaro	30.04	763.1	30.09	764.3	61.2	16.2	77	n.	15.4	6.9			1		ne.	0	0		Prof. Luigi Guidi.
Florence	29.80	756.9	30.06	763.4	66.2	19.0	53	ne.			4		2			0	0		Prof. Costantino Pittei
Leghorn	29.91	759.6	29.99	761.8	67.3	19.6	43	ene.	9.4	4.2			1			0	0		Prof. P. Monte.
Rome	29.81	757.2	29.98	761.6	68.4	20.2	48	nw.	0.7	0.3			3			0	0		Prof. P. Tacchini.
Lecce	29.72	754.9	29.97	761.3	65.1	18.4	80	nne	11.2	5.0			10		ne.	0.146	3.7		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.99	761.7	65.8	18.8	63	sw.	2.5	1.1			9		w.	0	0		Prof. D. Conti.
Cagliari	29.78	756.4	29.97	761.2	63.1	17.3	78	calm			0		10			0.079	2.0		Prof. A. Pacinotti.
Palermo	29.71	754.5	29.95	760.8	68.2	20.1	60	calm	0	0			10			0	0		Prof. G. Caccatore.
Syracuse	29.89	759.2	29.93	760.3	71.1	21.7	65	e.	7.4	3.3			9		ese.	0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.46	748.3	29.97	761.3	67.3	19.6	56	e.	2.5	1.1			8		sw.	0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.22	767.5	30.25	768.4	52.9	11.6	96	calm			0		10 k			0	0	cloudy	H. Hattori.
Awomori	30.21	767.3	30.24	768.1	49.6	9.8	84	calm	0	0			10 s			0	0	overcast	K. Ogawa.
Hamamatsu	30.08	764.0	30.18	766.5	65.2	18.4	79	ne.			2	8c;cs;ck	0	w.		0.020	0.5	fair	Sekigawa & Yamazaki.
Kagoshima	30.09	764.3	30.10	764.6	69.8	21.0	76	calm			0		10 s		nw.	0.031	0.8	overcast	G. Miyanohaza.
Kanazawa	30.07	763.8	30.17	766.3	60.1	15.6	92	calm	0	0		9ck;c	0	sw.		0.111	2.8	cloudy	S. Endo.
Kioto	29.98	761.5	30.15	765.9	64.8	18.2	79	nnw.	2.1	0.9		8cs;ck	28;ck	sw.		0.555	14.1	cloudy	M. Tojima.
Kochi	30.11	764.7	30.13	765.2	70.0	21.1	83	nw.	3.9	1.7			10 s		w.	0.66	16.8	overcast	K. Kusunose.
Miasaka	30.07	763.7	30.09	764.4	69.0	20.6	87	ne.			1		10 s		w.	0.071	1.8	overcast	K. Masusaki
Miyako	30.17	766.3	30.28	769.1	50.7	10.4	92	sw.	2.6	1.2			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.90	759.4	30.10	764.5	67.1	19.5	83	calm	0	0		7ck;cs	2 s	w.	se.	0	0	cloudy	S. Takenayasu.
Niigata	30.16	766.0	30.20	767.1	61.7	16.5	90	ne.	0.7	0.3		0	0			0	0	clear	Satoo & Tomikawa.
Nobiru	30.23	768.0	30.25	768.4	57.7	14.3	97	ene.	4.6	2.1		10 ck;cs	0	w.		0	0	overcast	Yoshino & Midzushina.
Numazu	30.17	766.3	30.21	767.3	64.9	18.3	68	e.			2	10c;cs	0	w.		0	0	cloudy	R. Kaneda.
Osaka	30.12	765.0	30.14	765.4	65.0	18.3	83	ne.	7.6	3.4		3 cs	7 cs			0.865	22.0	cloudy	H. Omura.
Sakai	30.14	765.5	30.15	765.7	66.8	19.3	71	nne.			2	6 c	0	w.		0.051	1.3	fair	Yamawchi & Sakamoto.
Shimonoseki	29.97	761.2	30.11	764.9	66.9	19.4	75	calm			0	cs	4ck;ks	sw.	sw.	0	0	fair	S. Sakano.
Tokei Obs'y, Yeddo	30.15	765.9	30.23	767.8	63.4	17.4	85	e.	3.5	1.5		0	8ck;cs		w.	0	0	cloudy	The Staff.
Wakayama	30.07	763.8	30.12	765.1	67.7	19.8	82	calm	0	0		10 ck	0	w.		0.684	17.4	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	72.0	22.2	65	e.	21.5	9.6			9k;ks		ene.	0.01	0.3	misty	The Staff.
MEXICAN.																			
Leon	24.30	617.2	29.95	760.7	59.0	15.0	91	ne.	0.9	0.4		3 c	4ck;s			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.65	753.0	29.90	759.6	76.5	24.7	86	nnw.	0.9	0.4		0	0			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.05	763.3	30.05	763.3	57.9	14.4		se.			2					0.012	0.3		
Groningen	30.07	763.8	30.13	765.2	54.7	12.6		s.			2					0	0		
Helder	30.08	763.9	30.08	763.9	54.9	12.7		se.			2					0	0		
Hellevoetsluis	30.07	763.7	30.07	763.7	58.5	14.7	77	ese.			1					0	0	clear	H. van der Brink
Utrecht	30.04	763.1	30.09	764.3	59.5	15.3	68	sse.			2		0			0	0		Lt. J. J. Roptman, R D.N
Sub-series.																			
Batavia, Java	29.90	759.4			80.8	27.1	81	ne.	0.5	0.2			6			0	0		
NORWEGIAN.																			
Bergen	29.89	759.2	29.95	760.8	56.8	13.8	59	s.	38	17			10			0	0		
Brono	29.84	757.9	29.88	758.9	45.7	7.6	80	ssw.			6		10			0.035	0.9	light rain	
Christiania	30.11	764.7	30.26	768.5	49.1	9.5	83	s.	11	5			10			0	0		
Gjæsvær	29.82	757.3	29.84	757.9	35.4	1.9		calm			0		1					raining	
Lodingen	29.78	759.5	29.82	757.5	41.0	5.0	80	s			4		10			1.795	45.6		
PORTUGUESE.																			
Angra, Azores					64.4	18.0	77	nne.	1.8	0.8			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.13	765.4	30.22	767.7	71.4	21.9	59	sw.	2.5	1.1			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.5	30.15	765.9	64.4	18.0	80	sw.	9.4	4.2			7		wsw.	0	0		The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	66.9	19.4	60	ne.	3.1	1.4			4			0.134	3.4		
Saint Paul de Loando	29.71	754.7	29.91	759.8	74.8	23.8	92	wsw.	1.3	0.6			10			0	0		
San Salvador, Congo	28.14	714.7	29.98	761.6	74.3	23.5	74	calm			0		10			0	0		
Serra da Estrella	25.38	644.7	30.11	764.9	50.0	10.0	79	w.	10.5	4.7			9			0	0		
RUSSIAN.																			
Akmolinski	29.31	744.5	30.44	773.1	36.5	2.5	40	ssw.	9	4		5 c	0			blank	blank		Major K. Lasarew.
Archangel	30.37	771.5	30.39	772.0	34.5	1.4	85	wnw.	9	4		2 cs	0			0	0		Capt. Sseliwerstow
Ashurada	30.07	763.8	29.98	761.4	77.4	25.2	78	nnw.	7	3		0	0			0	0	light clouds	Capt. Wisganow.
Astrakhan	30.08	764.1	30.01	762.3	70.3	21.3	64	wnw.	4	2		cs	6 s			0	0		
Baku	30.05	763.2	30.00	762.0	75.7	24.3	77	ssw.	4	2		2 cs	0			0	0	light clouds	Meteorological Obs'y
Barnaul	30.21	767.2	30.74	780.9	27.5	-2.5	64	ssw.	9	4			9			0	0		
Bielosersk	30.06	763.5	30.55	776.0	30.3	2.4	72	wnw.	9	4			10 ks			0	0		Observatory.
Dorpat	30.41	772.5	30.07	778.9	43.0	6.0	71	ssw.	2	1		0	0			0.134	3.4	snowing	Meteorological Obs'y.
Ekaterinburg	28.93	734.7	29.92	759.9	33.6	0.9	100	ssw.	2	1			10			0	0		
Elissawetgrad	29.94	760.5	30.40	772.2	50.7	10.4	82	ne.	11	5			10 n;s			0	0		
Irkutsk	28.98	736.0	30.71	779.9	34.0	1.1	60	nnw.			2		8						
Kasalinsk					51.8	11.0	21	ese.	13	6		0	0			0	0		Observatory.
Kasan	29.79	756.7	30.07	763.8	36.9	2.7	69	nnw.	13	6			10 n			0	0	h'vy clouds.	
Kem	29.35	770.8	30.40	772.1	34.5	1.4	74	sw.	4	2			10 ks			0	0		Lagorio & Sastyres.
Kertch	30.13	765.2	30.15	765.8	60.3	15.7	79	n.	9	4			9 n			0	0		Observatory.
Kieff	29.83	757.6	30.48	774.2	48.4	9.1	37	ne.	11	5		0	0			blank	blank		
Koslov	29.81	757.1	30.33	770.3	41.7	5.4	59	n.	18	8		0	8 s			0	0		E. Quass.
Libau	30.57	776.4	30.59	777.0	48.6	9.2	56	sse.	9	4			0			inap.	inap.		Meteorological Obs'y.
Lugan	30.04	763.0	30.25	768.3	47.7	8.7	80	nnw.	22	10			8			0.039	1.0		Meteorological Obs'y
Moscow	30.02	762.6	30.52	775.3	39.9	4.4	60	nnw.	4	2		0	8ks;n			0	0		Capt. Kurdakow.
Nikolaiev	30.22	767.5	30.29	769.3	54.5	12.5	96	n.	13	6			10 n						Iwanow.
Nikolaievsk-on-the-Amoor	29.96	761.0	30.05	763.2	35.2	1.8	73	calm	0	0		0	0						

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
RUSSIAN.—Continued.																			
Pekin, China	29.93	760.3	30.08	763.9	57.9	14.4	93	calm	0	0		0	6 k			0.295	7.5		Physical Observatory.
Petro-Alexandrovsk	29.82	757.4	30.17	766.3	62.4	16.9	10	ne.	2.2	1.0		0	0			0	0		
Petrozavodsk	30.30	769.6	30.50	774.8	39.2	4.0	67	nw.	11	5		0	7 ks			0	0		Dr. Bergmann.
Pinsk	30.04	763.1	30.55	776.0	50.5	10.3	36	e.	18	8		0	0			0	0		
Poti	29.97	761.3	30.00	762.1	73.8	23.2	89	sw.	9	4			10 n			0.106	2.7		
St. Petersburg	30.59	776.9	30.61	777.5	43.7	6.5	64	nw.	7	3		0	5			0	0	light clouds	Central Physical Obs'y.
Samarkand	27.67	702.9	30.12	765.1	60.4	15.8	45	calm	0	0		0	0			0	0		
Semipalatinsk	30.08	763.9	30.78	781.7	33.1	0.6	54	calm	0	0			3			0	0		Major Lasarew
Sevastopol	29.94	760.4	30.14	765.6	63.7	17.6	67	ne.	16	7		7 cs	0			0	0		
Staroi Bykhov	30.03	762.8	30.60	777.3	47.5	8.6	46	ne.	16	7		1 cs	0			0.020	0.5	light clouds	
Tashkend Laboratory	28.49	723.6	30.13	765.2	67.3	19.6	27	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.61	726.6	29.97	761.3	74.1	23.4	56	calm	0	0		0	8 k			0.043	1.1		Physical Observatory.
Vernoe	27.87	708.0	30.44	773.2	45.7	7.6	47	ne.	2	1		0	0			0	0		
Viatka	29.51	749.6	30.16	766.1	37.0	2.8	59	n.	7	3			1			0	0		
Warsaw	30.03	762.7	30.46	773.7	52.0	11.1	73	se.	13	6		0	3 k			0	0		Astronomical Obs'y.
Yeniseisk	30.22	767.7	30.53	775.5	25.2	— 3.8	67	s.	9	4			7			blank	blank		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	68.4	20.2	69	ssw.	16.1	7.2		1 c	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	29.97	761.3	30.03	762.8	64.4	18.0	62	se.	0.9	0.4			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.15	689.5	30.11	764.7	57.2	14.0	82	sw.	4.3	1.9			10			0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.90	708.7	30.09	764.2	66.7	19.3	61	sw.	7.8	3.5		0	3			0	0		The Staff.
Murcia, Met. Obs'y	29.95	760.6	30.07	763.8	76.8	24.9	55	wsw.	0.2	0.1		2	2	w.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.22	742.2	29.98	761.5	59.0	15.0	86	se	7.8	3.5		8 n	8 n	n.	ne.	0.098	2.5	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.07	738.4	29.97	761.1	57.7	14.3	98	s.	11.9	5.3			10			0.579	14.7	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.99	761.7	30.06	763.4	74.7	23.7	85	s.	2.5	1.1		2 c;cs	k	ne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.93	760.2	29.97	761.2	79.0	26.1	81	ne.	2.2	1.0		0	3 ks		e.	0.138	3.5	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.8	66.7	19.3	76	w.	5.4	2.4		5	3	wnw.	wnw.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I.	29.91	759.8	30.01	762.1	80.6	27.0	85	calm	0	0		2 c	2 k	s.	s.	0.028	0.7	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	30.08	764.1	30.12	765.1	40.3	4.6	84	s.			6		10			0	0		
Umea	30.15	765.9	30.21	767.2	43.9	6.6	71	wsw.			7		4			0	0		
Hernosand	30.19	766.8	30.24	768.1	45.0	7.2	69	ssw.			4		10			0	0		
Stockholm	30.28	769.2	30.46	773.7	48.9	9.4	59	ssw.			2		0			0	0		
Wisby	30.41	772.3	30.47	773.8	50.0	10.0	62	s.			4		0			0	0		
Sub-series.																			
Upsala	30.33	770.3	30.41	772.5	50.0	10.0	69	ssw.	16.8	7.5			6	e.	sw.	0.008	0.2		H. H. Hildebrandesson
SWISS.																			
Geneva	28.70	728.9	30.13	765.2	54.0	12.2	76	n.			1		8			0	0	foggy	The Observatory.
TURKISH.																			
Constantinople			30.13	765.4	66.9	19.4	68	n.	15	6.5			7		ne.	0	0		The Observatory.
Valona			30.05?	763.3?	63.9	17.7		ne.			1		10			0.43	11.	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	81.7	27.6	55	sw.			2		1 k;n		sw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.84	681.7			54	12.2	93	se.			1		10 n		se.			sprinkling	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.73	755.5	29.81	757.2	70.6	21.4	96	s.	5	2.2		0	2 s;fg		w.	0.57	14.5	clear	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.16	766.1	36	2.2	79	n.	10	4.5			10 s		n.	0.60	15.2	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.95	760.7	32.0	0.0	74	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.24	691.9	30.10	766.1	40	4.4	100	nw.	9	4.0			10 n		nw.	0.02	0.5	light rain	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.08	764.0	68.0	20.0	73	nw.	3	1.3		0	sk.			0	0	clear	Edward A. Beals.
Atlantic City, New Jersey	29.92	760.0	29.93	760.2	68.2	20.1	93	s.	14	6.3		7 k	fg.			0.02	0.5	fair	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.05	763.3	67	19.4	84	n.	1	0.4		0	0			0	0	clear	Louis Duane.
Baltimore, Maryland	29.92	760.0	29.97	761.2	73	22.8	97	w.	4	1.8			10 s		sw.	0.37	9.4	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	29.91	759.7	29.93	760.2	69.0	20.6	94	sw.	17	7.6			10s;fg		sw.	0.11	2.8	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.62	726.9	30.24	768.1	25.0	— 3.9	76	ne.	2	0.9			fg.			0	0	dense fog	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.27	768.8	36	2.2	92	n.	8	3.6			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.40	721.3	30.28	769.1	30.5	— 0.8	100	e.	6	2.7			10 s			0.01	0.3	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.87	758.7	29.90	759.4	67.0	19.4	100	sw.	31	13.9			fg.			0.42	10.7	dense fog	J. T. Elker.
Boise City, Idaho	27.15	689.6	30.01	762.2	37	2.8	92	nw.	1	0.4			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.68	753.9	29.84	757.9	71.0	21.7	93	sw.	12	5.4			10 s		sw.	0.51	13.0	threatening	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.02	762.5	74.0	23.3	97	s	4	1.8			10 n		s.	0.55	14.0	light rain	John McGlone.
Buffalo, New York	29.15	740.4	29.91	759.7	58.3	14.6	88	sw.	25	11.2			10 s		sw.	0.21	5.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.05	712.5	30.15	765.8	34	1.1	82	se.	5	2.2			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.79	756.7	30.19	766.8	53.1	11.7	85	n.	16	7.2			10 s		n.	0.04	1.0	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.88	758.9	30.08	764.0	49.4	9.7	97	e.	4	1.8			10 s			0.05	1.3	cloudy	O. D. Stewart.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	73.0	22.8	97	s.	10	4.5		0	5 ks			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	68.0	20.0	93	s.	17	7.6			10 s		sw.	0.45	11.4	cloudy	Wm. Bolton.
Cape Mendocino, California	29.23	742.4	29.92	760.0	47	8.3	89	nw.	24	10.7		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.00	763.5	30.08	764.0	80.0	26.7	82	w.	1	0.4		0	2 k		w.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.94	760.5	30.00	762.0	73.0	22.8	97	w.	4	1.8		0	9 s		w.	1.21	30.7	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.18	741.2	30.04	763.0	70.0	21.1	92	n.	2	0.9			fg.			0	0	dense fog	D. O'Donoghue.
Chattanooga, Tennessee	29.22	742.2	30.05	763.3	62.0	16.7	93	w.	3	1.3		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	30.07	763.8	26.7	— 2.9	80	w.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.48	748.8	30.19	766.8	42.0	5.6	82	nw.	9	4.0			10 s		nw.	0.41	10.4	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	69	20.6	100	s.	9	4.0			10s;fg		s.	0.09	2.3	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.09	764.3	60.5	15.8	76	n.	10	4.5		10 cs	0	nw.		0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.29	744.0	30.03	762.7	55.0	12.8	79	nw.	13	5.8			10 s		nw.	0.08	2.0	cloudy	J. B. Newlin.
Columbus, Ohio	29.18	741.2	30.04	763.0	59	15.0	75	w.	9	4.0			10 s		w.	0.06	1.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.17	766.3	51.8	11.0	100	ne.	15	6.7			10 n		n.	0.09	2.3	thnd'r str'm	O. E. King.
Custer, Fort, M. T.	26.87	682.5	30.11	764.8	26	— 3.3	77	n.	6	2.7		0	7 s		n.	0	0	fair	T. Gibson.
Davenport, Iowa	29.62	752.3	30.28	769.1	40	4.4	82	ne.	5	2.2			10 s		ne.	0.42	10.7	cloudy	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	30.11	764.8	54.0	12.2	94	n.	4	1.8			10 ks		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.97	761.2	42.5	5.8	93	calm	0	0		4 k	0			0.07	1.8	fair	D. Moore.
Deadwood, Dakota	25.44	646.2	30.12	765.0	28.5	— 1.9	70	nw.	5	2.2		0	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	29.95	760.7	29.97	761.2	71	21.7	94	s.	16	7.2		2 ck	6 ks		sw.	0.22	5.6	cloudy	F. W. Mixer.
Denver, Colorado	24.77	629.1	30.03	762.7	35.0	1.7	77	s.	5	2.2		0	5 s			inap.	inap.	fair	F. M. Neal.
Des Moines, Iowa	29.38	746.2	30.30	769.6	39	3.9	82	ne.	2	0.9			10 s		ne.	0.24	6.1	cloudy	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.06	763.5	46.0	7.8	93	nw.	4	1.8			10 s			0.24	6.1	cloudy	E. R. Brace.
Dodge City, Kansas	27.58	700.5	30.21	767.3	35	1.7	72	calm	0	0		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.57	751.1	30.29	769.4	39	3.9	84	n.	2	0.9			10 s		n.	0.73	18.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.56	750.8	30.32	770.1	39.0	4.3	70	calm	0	0			10 s			0.02	0.5	cloudy	N. B. Conger.
Eastport, Maine	29.72	754.9	29.80	756.9	58.5	14.7	96	s.	15	6.7			fg		s.	0.86	21.8	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.43	696.7	30.22	767.6	37	2.8	92	calm	0	0		0	0			0.02	0.5	clear	J. C. Rickli.
El Paso, Texas	26.33	668.8	30.07	763.8	47.1	8.4	77	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.27	743.4	30.00	762.0	58	14.4	86	w.	16	7.2			10 s		w.	0.14	3.6	cloudy	C. A. Shaw.
Escanaba, Michigan	29.60	751.8	30.27	768.8	36.0	2.2	83	n.	7	3.1		4 ck	4 s	nw.	nw.	0.29	7.4	cloudy	George Heathcote.
Galveston, Texas	29.98	761.5	30.02	762.5	74	23.3	90	ne.	4	1.8		6 cs	3 ks		se.	0.84	21.3	cloudy	E. O'C. MacInerney
Grand Haven, Michigan	29.49	749.0	30.16	766.1	36.0	2.2	94	n.	10	4.5		0	0			0.85	21.6	clear	Wm. H. Fallon.

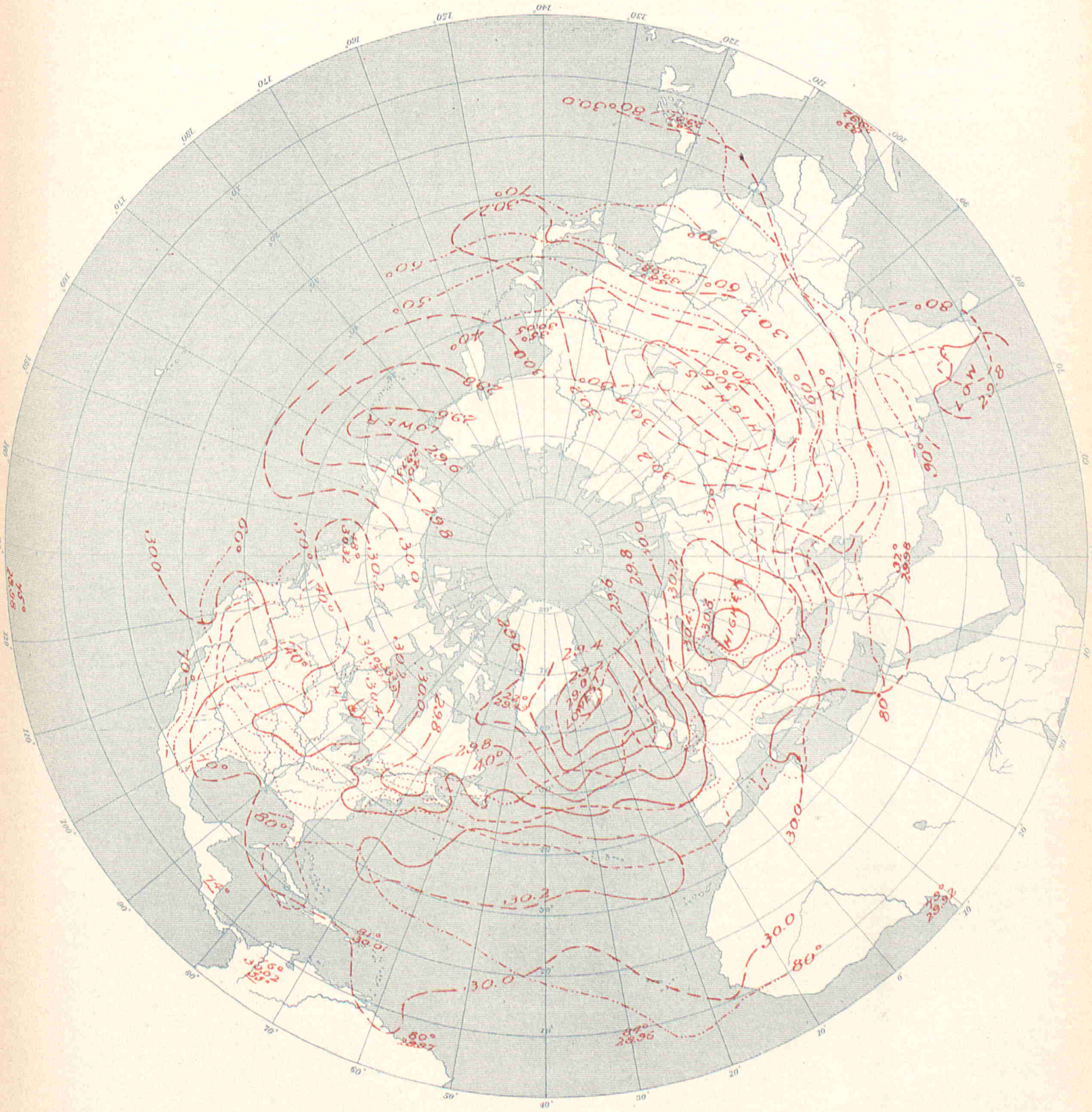
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.22	640.6	29.92	760.0	50.2	10.1	43	ne	5	2.2	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.04	763.0	30.05	763.3	75.0	23.9	97	sw.	10	4.5	.....	3 k	fg.	sw.	.....	0.05	1.3	clear	R. M. Crawford
Helena, Montana	25.79	655.1	30.09	764.3	38	3.3	82	n.	4	1.8	.....	.....	10 n	.....	.....	blank	blank	light rain	F. H. Jones.
Huron, Dakota	28.82	732.0	40.25	768.3	27	— 2.8	83	w.	2	0 9	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.10	764.5	52.3	11.3	80	n.	3	1.3	.....	.....	10 s	.....	n.	0.33	8.4	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	72.2	22.3	96	n.	16	7.2	.....	7 k	3 ks	nw.	s.	0.48	12.2	cloudy	I. A. Reed.
Jacksonville Florida	30.02	762.5	30.06	763.5	74.5	23.6	94	s.	6	2.7	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. W. Smith.
Keokuk, Iowa	29.64	752.8	30.31	769.9	39.0	3.9	89	n.	6	2.7	.....	.....	10 s	.....	n.	0.51	13.0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	80	26.7	82	se	1	0.4	.....	3 cs	2k;ks	.....	e.	0	0	fair	A. W. Browne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	73.5	23.1	97	sw.	11	4.9	.....	4 ck	4 ks	sw.	sw.	0.23	5.8	fair	Wesley Blake.
Knoxville, Tennessee	29.03	737.3	30.07	763.8	58.5	14.7	100	e	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.42	747.3	30.21	767.3	35.4	1.9	79	n.	1	0.4	.....	0	0	.....	.....	0.22	5.6	clear	S. C. Emery
Leavenworth, Kansas	29.38	746.2	30.28	769.1	37	2.8	89	calm	0	0	.....	.....	fg.	.....	.....	0.02	0.5	dense fog	T. S. Outram.
Lewiston, Idaho	29.09	738.9	29.94	760.5	46.0	7.8	76	calm	0	0	.....	0	8 s	.....	.....	0.08	2.0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.76	755.9	30.08	764.0	62.0	16.7	84	n.	7	3.1	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	56	13.3	93	nw.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light rain	T. S. Collins.
Louisville, Kentucky	29.51	749.5	30.08	764.0	59.8	15.4	75	nw.	10	4.5	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	L. M. Dey.
Lynchburg, Virginia	29.30	744.2	29.98	761.5	68.5	20.3	93	nw.	3	1.3	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	Jno. Healy.
Mackinaw City, Michigan	29.56	750.8	30.23	767.8	36.2	2.3	77	n.	10	4.5	.....	0	7 ks	.....	n.	0.15	3.8	fair	D. B. Notson.
Macon, Fort, North Carolina	30.02	762.5	30.03	762.7	74.0	23.3	97	s.	7	3.1	.....	3 cs	3 ks	s.	sw.	0.25	6.3	fair	William Daly.
Maginnis, Fort, Montana	25.62	650.7	30.16	766.1	36	2.2	92	e.	2	0.9	.....	0	8 ks	.....	e	0	0	cloudy	F. Burke.
Marquette, Michigan	29.56	750.8	30.30	769.6	38.0	3.3	72	n	6	2.7	.....	6 k	0	n.	.....	0	0	fair	J. Gilligan
Memphis, Tennessee	29.74	755.4	30.08	764.0	65	18.3	100	nw.	8	3.6	.....	.....	10 n	.....	.....	0.15	3.8	light rain	D. T. Flannery
Milwaukee, Wisconsin	29.46	748.3	30.22	767.6	38.0	3.3	89	nw.	12	5.4	.....	0	8 ks	.....	n.	0.49	12.4	clearing	W. Lins.
Mobile, Alabama	30.02	762.5	30.06	763.5	69.4	20.8	92	w.	2	0.9	.....	0	sk.	.....	.....	0	0	light smoke	H. U. Jones.
Montgomery, Alabama	29.82	757.4	30.05	763.3	64	17.8	90	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.19	741.4	30.21	767.3	35.1	1.7	89	ne.	4	1.8	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.69	601.7	30.03	762.7	52.0	11.1	100	w.	62	27.8	.....	.....	fg.	.....	w.	1.09	27.7	dense fog	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.06	763.5	68.0	20.0	90	n	4	1.8	.....	.....	10 ks	.....	n.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.76	755.9	29.88	758.9	67.5	19.7	100	sw.	12	5.4	.....	.....	10 s	.....	sw.	1.61	40.9	cloudy	J. H. Sherman.
New London, Connecticut	29.86	758.4	29.91	759.7	67	19.4	100	sw.	20	8.9	.....	.....	10 n	.....	sw.	1.33	33.8	light rain	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	74.0	23.3	76	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	29.73	755 1	29.91	759.7	69.0	20.0	100	sw.	7	3.1	.....	.....	10 ks	.....	sw.	0.36	9.1	threatening	H. J. Peurod.
Norfolk, Virginia	29.97	761.2	30.00	762.0	72.1	22.3	97	s.	4	1.8	.....	0	fg.	.....	.....	0.03	0.8	clear	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.17	766.3	36.1	2.3	75	s.	6	2.7	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	44	6.7	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. Dascomb.
Omaha, Nebraska	29.10	739.1	30.30	769.6	36.3	2.4	90	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	A. Pollak
Oswego, New York	29.50	749.3	29.83	757.7	60.5	15.8	90	w.	7	3.1	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	J. G. Linsley
Palestine, Texas	29.59	751.6	30.15	765.8	59.0	15.0	87	n.	8	3.6	.....	.....	10 ks	.....	.....	0.25	6.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	69.2	20.7	95	sw.	4	1.8	.....	0	sk.	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.85	758.2	29.95	760.7	72	22.2	100	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.35	8.9	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.78	451.6	30.06	763.5	11	—11.7	73	w.	32	14.3	.....	4 cs	0	w.	.....	0	0	fair	H. Hall.
Pittsburg, Pennsylvania	29.21	741.9	30.03	762.7	65.0	18.3	78	w.	2	0.9	.....	.....	10 s	.....	n.	inap	inap.	cloudy	G. C Schaeffer.
Port Huron, Michigan	29.33	745.0	30.02	762.5	42.4	5.8	98	nw.	13	5.8	.....	.....	10 s	.....	n	0.27	6.9	cloudy	M. H. Perry
Portland, Maine	29.72	754.9	29.77	756.1	63.0	17.2	90	sw.	8	3.6	.....	.....	10n;fg	.....	sw.	0.36	9.1	heavy rain	W. W. Eichelberger.
Portland, Oregon	29.99	761.7	30.06	763.5	46.0	7.8	93	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.76	628.9	29.92	760.0	40.0	4.4	62	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	29.89	759.2	29.92	760.0	65	18.3	98	sw	7	3.1	.....	.....	fg.	.....	.....	0.36	9.1	dense fog	C. N. Kitchel.
Red Bluff, California	29.54	750.3	29.90	759.4	53	11.7	80	calm	.....	0	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.88	758.9	30.12	765.0	72.0	22.2	93	e.	5	2.2	.....	.....	10 s	.....	e.	0.12	3.0	cloudy	Fred. Belford.
Rochester, N. Y	29.20	741.7	29.87	759.7	61	16.1	90	w.	15	6.7	.....	.....	10 k	.....	w.	0.12	3.0	cloudy	
Roseburg, Oregon	29.50	749 3	30.06	763.5	48.7	9.3	86	calm	0	0	.....	.....	10 s	.....	nw.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.82	757.4	29.90	759.4	53.0	11.7	83	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.65	753.1	30.27	768.8	43.3	6.3	93	n	16	7.2	.....	.....	10 s	.....	nw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.70	754.4	29.73	755.1	40	4.4	86	w.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.41	747.0	30.28	769.1	40.0	4.4	82	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.36	745.7	30.26	768.6	34	1.1	88	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25 52	648.2	29.92	760.0	42	5.6	59	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.89	759.2	29.96	761.0	60.4	15.8	79	n.	2	0.9	.....	7 k	0	nw.	.....	0	0	fair	F. R. Day.
Sanford, Florida	29.99	761.7	30.04	763.0	71.0	21.7	92	s.	3	1.3	.....	7 c	3 ks	sw.	s.	1.38	35.1	cloudy	J. B. Marbury.
Sandusky, Ohio	29.38	746.2	30.07	763.8	51	10.6	86	n.	26	11.6	.....	.....	10 ks	.....	n.	0.07	1.8	cloudy	B. F. Heugh.
Sandy Hook, New Jersey	29.88	758.9	29.91	759.7	70.0	21.1	94	sw.	17	7.6	.....	.....	10 ks	.....	sw.	0 56	14.2	cloudy	B. A. Blundon
San Francisco, California	29.88	758.9	29.95	760.7	54.5	12.5	86	sw.	10	4.5	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Savannah, Georgia	29.94	760.5	30.03	762.7	72.5	22.5	86	w.	4	1.8	.....	0	4 s	.....	w	inap.	inap.	fair	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	30.15	765.8	35	1.7	100	n	11	4.9	.....	.....	10 n	.....	.....	0.37	9.4	light snow	S. W. Morrison.
Shreveport, Louisiana	29.79	756.7	30.03	762.7	68.0	20.0	93	n.	9	4.0	.....	.....	10 s	.....	n.	0.23	5.8	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Mattingly
Sitka, Alaska	30.25	768.3	30.32	770.1	48	8.9	86	n.	2	0.9	.....	.....	9 ks	.....	n.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.69	754.1	30.17	766.3	54.5	12.5	86	n.	6	2.7	.....	.....	10 s	.....	n.	0.38	9.7	cloudy	J. B. Campbell
Smithville North Carolina	29.95	760.7	29.99	761.7	73.4	23.0	96	s.	9	4.0	.....	.....	9 n	.....	s.	0.29	7.4	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.10	764.5	45	7.2	86	sw.	2	0.9	.....	.....	10 k	.....	.....	0.27	6.9	cloudy	John F. Hemenway.
Springfield, Illinois	29.56	750.8	30.25	768.3	43.5	6.4	83	n.	10	4.5	.....	.....	10 s	.....	n.	0.01	0.3	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.12	688.8	30.15	765.8	53.0	11.7	100	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.04	1.0	light rain	Louis Dorman.
Tatoosh Id., Wash. Ter	30.01	762.2	.....	.....	44.5	6.9	100	e.	2	0.9	.....	0	fg.	.....	e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.28	692.9	29.99	761.7	40	4.4	35	calm	.....	.....	0	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.34	745.2	30.04	763.0	46	7.8	93	ne.	12	5 4	.....	.....	10 ks	.....	ne.	0.49	12.4	cloudy	A. Buell.
Unalashka, Alaska	29.49	749.0	29.51	749.5	44	6.7	83	nw.	5	2.2	.....	10 k	0	nw.	.....	0.12	3.0	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.81	757.2	30.07	763.8	58.5	20.3	92	nw.	4	1.8	.....	.....	10 s	.....	w.	0.05	1.3	threatening	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	29.85	758.2	29.97	761.2	71.4	21.9	95	s.	2	0.9	.....	.....	10 s	.....	sw.	0.09	2.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.11	663.2	30.04	763.0	33	0.6	88	sw.	4	1.8	.....	7 c	0	w.	.....	0	0	fair	F. H. Brandenburg.
Wilmington, N. Carolina	29.96	761.0	30.02	762.5	72.0	22.2	97	s.	6	2.7	.....	.....	10 s	.....	s.	0.13	3.3	cloudy	Samuel A. Haney.
Yankton, Dakota	28.81	731.8	30.14	765 5	33.4	0.8	88	n.	2	0.9	.....	10 k	0	n.	.....	inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.67	753.6	29.82	757 4	60.8	16.0	86	n.	3	1.3	.....	0.	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	78	25.6	.....	nw.	.....	.....	1	.....	10 n	.....	nw.	0.30	7.6	cloudy	W. H. Jackson.
Bogota, U. S. C.	22.03	559.4	.....	.....	55.0	12.8	77	calm	0	0	.....	.....	10 ks	.....	w	0	0	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.98	761.5	75.6	24.2	84	n.	1	0.4	.....	10 cs	0	w.	.....	0.04	1.0	cloudy	Robert Johnstone.
Paramaribo, S. A.	29.97	761.2	29.97	761.2	80	26.7	82	se.	.....	.....	3	5 k	7 ks	e.	.....	0.140	3.6	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	76	24.4	89	calm	.....	.....	0	.....	10 ks	.....	calm	0.14	3.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	74	23.3	90	nw.	.....	.....	1	7 ck	1 ks	.....	nw.	3.04	77.2	cloudy	Earl Flint
York Factory, B. A.	30.23	767.8	30.29	769.4	32.5	0.3	94	s.	10	4.5	.....	3 k	2 s	s.	s.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 51′, E. 25° 12′	30.08	764.0	72	22.2	71	ese.			2		8	ene.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.20	767.1	76	24.4	91	ene.			1		4	ene.						d. clouds.
H. M. S. Flamingo, N. 44° 39′, W. 61° 53′	29.95	760.7	59	15.0	94	ssw.			2							1	wsw.	foggy.
H. M. S. Iris, Alexandria, Egypt	30.06	763.5	76	24.4	73	ese.			2		0							blue sky
H. M. S Inflexible, N. 37° 57′, E. 24° 36′	30.03	762.7	69	20.6	75	nne.			4		2	nne.				1	nne.	d. clouds.
H. M. S. Orontes, N. 9° 42′. W. 16° 39′	30.02	762.5	79	26.1	?	ese.			1		5	sse.				2	se.	d. clouds.
H. M. S. Opal, Fernando Po, W. Africa	29.93	760.2	77	25.0	91	nw.			1		6	ssw.						d. clouds.
H. M. S. Superb, N. 38° 12′ E. 24° 43′*	30.07	763.8	74	23.3	95	ese.			3		8	sse.				3	sse.	d. clouds.
H. P. M. S. Douro, N. 1° 38′, E. 7° 27′	29.92	760.0	78.8	26.0	90	calm			0		8			4 h'r	4 h'r	1		d. clouds.
U. S. Navy Yard, Portsmouth, N. H.*	29.76	755.9	64	17.8	100	se.	10	4.5			10		sw.	0.80	20.3			cloudy.
U. S. S. Alliance, N. 40° 27′, W. 73° 18′	29.93	760.2	66	18.9	100	ssw.			6		10		sw.	light	light	r'gh	sw.	overcast.
U. S. S. Jamestown, N. 29° 52′, W. 65° 21′	30.20	767.1	79	26.1	86	ene.			3		2					sm'h	e.	clear.
U. S. S. Kearsarge, Malaga, Spain	30.15	765.8	69	20.6	75	se.			1		2							fair.
U. S. S. Lancaster, Malaga, Spain	30.15	765.8	74	23.3	86	s.			1		2		calm			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I.			66	18.9	100	ssw.			6		10		ssw.			mod.	sw.	foggy.
U. S. S. Powhatan, Halifax, N S	29.96	761.0	62	16.7	100	s.			2		10							rainy.
U. S. S. Quinnebaug, Leghorn, Italy	30.10	764 5	69	20.6	56	ene.			3		2		ne.					fair.
U. S. S. Saratoga, Cold Spring, N. Y	29.87	758.7	68	20.0	100	s.			2–3		2?		s.	hv'y	hv'y	sm'h		cloudy.
U. S. S. Swatara, N 33° 28′, W. 71° 29′	30.21	767.3	78	25.6	91	s.			3		2		s.	0	0	long	s.	fair.
U. S. S. Vandalia, New York, N. Y †	29.89	759.2	68	20.0	100	sw.			2		10							cloudy.
S. S. British Crown, N. 46° 10′, W. 53° 46′†	30.06	763.5	57	13.9		sw.			3		2		w.	0	0	sm'h		clear.
S. S. British Prince, N. 50° 56′ W. 31° 57′*†	29.52	749.8	53	11.7		sw.			6		9		sw.	8 h'r	8 h'r	h'vy	ne.	cloudy.
S. S. Ohio, Liverpool, Eng †	29.69	754.1	57	13.9	94	s.			6		10		s.	0	0			cloudy.
S. S. Circassian, N. 56° 36′ W. 17° 42′	29.26	743.2	50	10.0	79	wsw			6		8		w.			8	w.	showery.
S. S. Nova Scotian, N. 51° 54′, W. 30° 55′	29.55	750.6	51	10.6		sw.			5		10		w			cross	w.	cloudy.
S. S. Prussian, N. 42° 30′, W. 66° 39′	30.02	762.5	62	16.7		wsw.			3		0			3 h'r	3 h'r	sm'h	w.	foggy.
S. S. Scandinavian, N. 54° 55′, W. 16° 07′	29.54	750.3	52	11.1		wsw.			6		3		wsw.	sh'rs	sh'rs	high	w	d. clouds.
S. S. Ailsa, N. 15° 57′, W. 75° 00′			86	30.0	100	ene.			4		5		ene.	2 h'r	2 h'r	light	ese.	rain squalls
S. S. Assyria, N. 41° 59′. W. 55° 25′	30.19	766.8	73	22.8	100	wsw.			4		8		wsw.	1 h'r	1 h'r	sm'h		fine.
S. S. Devonia, N 54° 28′, W. 20° 02′*†	29.42	747.3	48	8.9		w.			6		5		w.			h'vy	wnw.	squally.
S. S. Dorian, N. 38° 52′, W. 19° 55′	30.23	767.8	66	18.9		nw.			4		4		nw.	0	0	long	nw.	fine.
S. S. Furnessia, N. 40° 28′. W. 73° 50′†	29.98	761.5	73	22.8	81	s.			3		1		s.	4 h'r	4 h'r	mod.	s.	rainy.
S. S. Carroll, N. 43° 11′, W. 65° 28′			58	14.4	100	sw.			3		10		sw.	rain	rain	short	sw.	dense fog.
S. S. Jerome, N. 40° 08′, W. 73° 45′*	29.94	760.5	68	20.0		ssw.			5		7		sw.	0	0	mod.	ssw.	hazy.
S. S. Llandaff City, N. 43° 12′, W. 57° 52′ †	30.14	765.5	64	17.8		ssw.			5		8		w.	3 h'r	3 h'r	mod.	wsw.	gloomy.
S. S. Gallia, N. 44° 13′, W. 45° 09′	30.19	766.8	62	16.7	?	w.			5		10?			0	0	long	ne.	fair?
S. S. Pavonia, N. 42° 06′, W. 57° 56′*	30.087	764.0?	72	22.2	100	wsw.			4		2		sw.	1 h'r	1 h'r	sll't	w.	
S. S. Samaria, N. 42° 30′ W. 70° 37′*	29.89	759.2	60	15.6		ssw.			4		fg			1 h'r	1 h'r	mod.	ssw.	foggy.
S. S. Canada, N. 44° 54′, W. 55° 23′			55.4	13		wsw.			3				wsw.			sm'h		misty.
S. S. Wisconsin, N. 48° 27′. W. 42° 14′*	29.88	758.9	55	12.8		w.			6		10		wnw.	6 h'r	6 h'r	mod.	wnw.	cloudy.
S. S. Wyoming, N. 51° 51′ W. 7° 35′.	29.58	751.3	53	11.7		wnw.			5		6		wnw.	6 h'r	6 h'r	long	wsw.	clearing
S. S. Bohemia, Elbe river, Germany*†	30.33	770.4				s.			5		9		s.	0	0			cloudy
S. S. Gellert, Hamburg, Germany			53	11.7	86	ese.			3		10			0	0			covered.
S. S. Lessing, N. 41° 39′ W. 64° 58′			74	23.3		s.			3		6		sw.	0	0	mod.	s.	foggy.
S. S. Silesia, N. 40° 29′, W. 72° 45′			66	18.9		s.			5		10		s.	0	0	mod.	s.	hazy.
S. S. Westphalia, N. 49° 48′, W. 12° 08′			57	13.9	87	nw.			5		7		nw.	3 h'r	3 h'r	mod.	nw.	fair.
S. S. Nessmore, N. 48° 18′, W. 27° 52′	29.83	757.7	57	13.9	94	wnw.			4		8		wnw.	0	0	h'vy	wnw.	cloudy.
S. S. Bulgarian, N. 51° 34′, W. 23° 31						w.			5		3		w.	2 h'r	2 h'r	high	nnw.	squally.
S. S. Archimedes, N. 46° 15′ W. 8° 12′	29.84	757.9				w.			4		10		w.	2 h'r	2 h'r	mod.	sw.	overcast.
S. S. Hevelius, Liverpool, Eng †	29.64	752.8	58	14.4		ssw.			6				s.	6 h'r	6 h'r			cloudy.
S. S. Rosse, N. 33° 20′, W. 16° 05′*	30.19	766.8	72	22.2		calm			0		3		sw.	0	0	sm'h		clear.
S. S. Rio Grande, N. 38° 18′, W. 73° 22′†	30.09	764.3	70	21.1		s.			3		2		s.	6 h'r	6 h'r	mod.	s.	clear.
S. S. Lampassas, N. 25° 55′. W. 79° 55′			83	28.3		calm			0		3			0	0	sm'h		fair.
S. S. Chalmette, N. 39° 40′ W. 74° 00′†	29.94	760.5	67	19.4		ssw.			6		10		ssw.	2 h'r	2 h'r	r'gh	s.	cloudy.
S. S. Lone Star, N. 28° 55′. W. 80° 20′*†	30.04	763.0	79	26.1		s.			3		7		s.	12 h'r	12 h'r	small	se.	fair.
S. S. Alleghany, Cape Cod, Mass†	29.99	761.7	62	16.7		sw.			2					0	0			dense fog.
S. S. Archimede, New York. N. Y †	29.94	760.5	76	24.4		sw.			3		7		wsw.	1 h'r	1 h'r			cloudy.
S. S. City of Washington, N. 33° 50′, W. 77° 12′*†	30.00	762.0	75	23.9		s.			6		10		sse.	light	light	mod.	s.	squally.
S. S. Cienfuegos, Nassau, Bahamas *	30.22?	767.6?	82	27.8		e.			2		2		e.	5 h'r	5 h'r	sm'h		fine.
S. S. Egypt, N. 50° 26′, W. 28° 41′	29.79	756.7	54	12.2		nw.			6		10		wsw.	2 h'r	2 h'r	cross	var.	cloudy.
S. S. Grecian, N. 56° 11′, W. 33° 27′	29.16	740.7	43	6.1	100	sse.			6		10		sse.	6 h'r	6 h'r	high	var.	raining.
S. S. England, N. 40° 28′, W. 71° 48′	29.97	761.2				ssw.			3		fg		ssw.			sm'h		dense fog.
S. S. Erin, Gravesend, Eng			46	7.8		sse.			7		9		ssw.	0	0			cloudy.
S. S. Greece, N. 49° 47′ W. 11° 32′			55	12.8	87	sw.			8		7		wnw.	6 h'r	6 h'r	h'vy	var.	d. clouds.
S. S. Holland, N. 42° 00′, W. 59° 40′	30.17	766.3	62	16.7		sw.			3		5		sw.	4 h'r	4 h'r	sm'h	sw.	fair.
S. S. Elbe, N. 50° 24′, W. 24° 4	29.77	756.2	50.9	10.5	94	w.			6		8		wsw.	2 h'r	2 h'r	cross	nw;w	squally.
S. S. Habsburg, N. 40° 28′. W. 73° 43′	29.90	759.4				ssw.			4		8		ssw.	0	0	long	ssw.	cloudy.
S. S. Orinoco, Lower Bay, N. Y			72	22.2		sw.			3		9		wsw.	3 h'r	3 h'r	mod.	s.	raining.
S. S. Neckar, N. 49° 30′, W. 37° 17′			56.5	13.6	90	var.			6–7		7		nw.	0	0	r'gh	wnw.	light rain.
S. S. Ohio, N. 34° 47′, W. 49° 32′	30.35	770.9				calm			0		2		n.	0	0	sm'h		clear.
S. S. Rhein, N. 49° 35′, W. 20° 49′	29.89	759.2				wnw.			4		5		wnw.	2 h'r	2 h'r	cross	wnw.	fair.
S. S. Salier, N. 40° 21′, W. 69° 34′*	30.01	762.2	66.2	19.0		ssw.			5		1		ssw.	2 h'r	2 h'r	light	s.	foggy.
S. S. Strassburg, N. 39° 16′ W. 68° 00′			78.0	25.6	86	sw.			4		4		sw.	0	0	3–4	sw.	fair.
S. S. City of Augusta, Savannah, Ga						wsw.			3		4		sw.					fine.
S. S. Muriel, N. 20° 20′, W. 65° 36′	30.00	762.0	81	27.2		ene.			3		0			0	0	long	ne.	clear.
S. S. Rhynland, Antwerp, Belgium	30.09	764.3	59	15.0		se.			1		1		e.	0	0			clear.
S. S. Pennland, N. 49° 16′, W. 22° 48′			53	11.7	80	nw.			4		5		n.	4 h'r	4 h'r	h'vy	n.	fair
S. S. Vaderland, N. 41° 10′, W. 60° 15′	30.10	764 5	74	23.3		sw.			4		9		w.	2 h'r	2 h'r	sm'h	w	foggy.
S. S. Waesland, N. 45° 51′, W. 49° 02′	30.11	764.8	53	11.7		wsw.			5		fg			5 h'r	5 h'r	mod.	nw.	foggy.
S. S. Leerdam, N. 48° 50′, W. 37° 38′*	29.95	760.7	58.6	14.8	91	wnw.			7–8		9		nw.	12½	hours	6	wsw.	stormy.
S. S. Schiedam, N. 40° 30′, W. 74° 01′	29.86	758.4	69.3	20.7	89	ssw.			6		10			8 h'r	8 h'r	long	s.	foggy.
S. S. Zaandam, N. 42° 10′ W. 55° —	30.21	767.3	73.4	23.0	96	nw.			3		5		wsw.	rain	rain	mod.	w.	
S. S. Caracas, N. 27° 30′, W. 69° 36′†	30.20	767.1	81	27.2	83	ese.			5		2		ese.	½ h'r	½ h'r	mod.	se.	clear.
S. S. W. A. Scholten, New York, N. Y	29.94	760.5	70.7	21.5	99	sw.			2		10		sw.	18 h'r	18 h'r			raining.
S. S. Valencia, N. 18° 25′, W 67° 49′*†	30.00	762.0	84	28.9	79	e.			3		3		ene.	1 h'r	1 h'r	short	ne.	clear.
S. S. State of Georgia, off North of Ireland	29.50	749.3	53	11.7		wsw.			3		10			6 h'r	6 h'r	long	wsw.	raining.
S. S. State of Indiana, N. 46° 00′, W. 53° 17′ *†	30.00	762.0	54	12.2		wnw.			2		7		nw.	4 h'r	4 h'r	sm'h		light rain.
S. S. State of Nebraska, N. 44° 21′, W. 58° 32′*†	30.11	764.8	63	17.2		s.			2		5		sw.	1 h'r	1 h'r	sm'h		dense fog.
S. S. Thingvalla, Sandy Hook, N. J †	30.07?	763.8?	64.4	18.6		ssw.			3		10		ssw.	10 h'r	10 h'r	sm'h	ssw.	covered.
S. S. Otranto, N. 43° 21′, W, 58° 20′			67	19.4		s.			4		10		s.	0	0	mod	sw.	foggy.
S. S. Romano, New York, N. Y			75	23.9		w.			2		10							
S. S. Salerno, N. 50° 00′ W. 30° 59′			53	11.7		w.			6		10		wnw.	0.5	13.	h'vy	wsw.	raining.
S. S. Ontario, N. 56° 00′, W. 18° 30′	29.28	743.7	49	9.4		wnw.			7		6		var.	2 h'r	2 h'r	r'gh	var.	threatening.
S. S. Dominion, N. 55° 47′ W. 16° 18′ *†	29.46	748.3	54	12.2		wsw.			3		8		wsw.			mod.	wsw.	cloudy.
S. S. Quebec, Three Rivers, Canada	29.72	754.9	46	7.8		ene.			5		10		e.	9 h'r	9 h'r			rainy.
S. S. Lake Huron, N. 56° 19′, W. 21° 08′	29.32	744.7	44	6.7		w.			7		2		wnw.	1 h'r	1 h'r	high	wnw.	squally.
S. S. Lake Manitoba, N. 52° 40′, W. 51° 20′	29.94	760.5	42	5.6		nnw.			5		10			0	0	mod.	nw.	overcast.
S. S. Daniel Steinmann, Boston, Mass						sw.			5		7		sw.	2 h'r	2 h'r			rainy.
S. S. Britannic, N. 51° 12′ W. 23° 00′ †	29.77	756.1	43	6.1		wnw.			6		8		w.	3 h'r	3 h'r	high	w.	raining.
S. S. Celtic, N. 51° 18′, W. 12° 45′†	29.70	754.4	60	15.6		nw.			3		5		n.	shr's	shr's	mod.	nw.	fair.
Bk. Arda, N. 23° 25′, W. 36° 30′†	29.99	761.7				s.			1		2?		s.	shr's	shr's	mod.	s.	cloudy ?
Bk. Ariadne, N. 59° 41′, W. 6° 12′			52	11.1	93	sse.			4		10		s.	3 h'r	3 h'r	mod.	sw.	cloudy.
Bg. Abbie Clifford, N. 19° 21′, W. 59° 57′ †	30.08	764.0	82	27.8		ene.			4		2		e.	¼ h'r	¼ h'r	mod	var.	
Schr. Arthur Burton, Charleston, S. C.†	30.03	762.7				nw.			1		8		wnw.	4 h'r	4 h'r	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Abbie H. Gheen, Baltimore, Md†	30.01	762.2	74	23.3		wsw.			2									clear.
S. S. Antonio Lopez, Cadiz, Spain *	30.13	765.3	65.5	18.6	78	wsw.			1	5 c				0	0			fair.
Schr. Adda Donne, N. 11° 35′, W. 56° 16′ *†	29.98	761.5				e.			4		2		e.	1 h'r	1 h'r	sm'h		clear.
Bg. Belle of the Bay, N. 28° 56′, W. 92° 20′†	29.98	761.5				ssw.			3		5		w.	5 minutes		sm'h	sw.	threatening.
S. S. Benledi, N. 37° —′, W. 1° —′ *	30.09	764.3	69.5	20.8	77	wsw.			0–2		0			0	0	sm'h		hazy.
S. S. Burswell, N. 37° 07′, E. 4° 35′ *†	30.12	765.0	80	26.7		nnw.			2		4		nnw.	1 h'r	1 h'r	light	ne.	fair
Bk. Ceylon, N. 8° 03′, W. 29° 57′†	29.96	761.0	84	28.9	91	ese.			2		2			light	light	mod.	sse.	clear.
Schr. Clotilde, N. 25° 45′, W. 78° 03′	30.07	763.8	84	28.9		se.			3		2		se.	2 h'r	2 h'r	sm'h		clear.
Schr. C. R. Flint, Demerara, British Guiana †	30.02	762.5	84	28.9							3		ene.	0	0			clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I.*†	30.00	762.0	81	27.2	87	calm			0		3		e.	2 h'r	2 h'r			clear.
Bk. Diamant, N. 49° 23′, W. 8° 25′	29.75	755.6	58.6	14.8	84	ssw.			5		10		sw.	10 ½	h'r	4	sw.	foggy.
S. Dynomene, N. 8° 10′, W. 23° 30′	29.93	760.2	77	25.0	95	e.			3		10			light	light	light	s.	raining.
S. E. J. Spicer, N. 42° 33′, W. 41° 04′	30.32	770.1	68	20.0	90	w.			6		5		nw.	0	0	long	ne.	fair.
Bk. E. D. Bigelow, Galveston, Texas†	29.97	761.2	80	26.7		n.			1		1		e.	3 h'r	3 h'r			fair.
S. Festina Lente, N. 50° 29′, W. 34° 39′	29.57	751.1	53	11.7		sw.			7		10		sw.	4 h'r	4 h'r	mod.	var.	raining.
U. S. Fish Com S.S. Fish Hawk, Woods Holl, Mass †	29.96	761.0	65	18.3	94	sw.			5		10		sw.	0.21	5.3	mod.	sw.	foggy.
S. Gatherer, N. 53° —′, W. 5° —′*	29.65	753.1	59	15.0	94	ssw.			7		9		ssw.	2 h'r	2 h'r	r'gh	ssw.	cloudy.
Bg. George, N. 37° 45′, W. 73° 00′*†	30.05	763.3	71	21.7		s.			2		2		s.	0	0	mod.	s	clear
Bk. Galeon, N. 21° 00′, W. 56° 32′ †	30.05	763.3	81.5	27.5		e.			5		4			0	0		ne.	d clouds.
Bk. Hattie G. McFarland, Sandy Hook, N. J.†	29.93	760.2	62	16.7		w.			2		10		w.	16 h'r	16 h'r			stormy.
S. Hedwig, N. 22° 14′, W. 61° 52′	30.09	764.2	81.1	27.3	81	nne.			6		4		nne.	1½h'r	1½h'r	3	ne.	fine.
Bk. Heinrich & Tonio, N. 48° 22′, W. 13° 57′†	29.78	756.4	54.5	12.5		w.			4–6		3		w.	10 h'r	10 h'r	mod.	wnw.	squally.
Schr. Isabel Alberto, N. 24° 11′, W. 81° 30′ †	30.06	763.5				ene.			3		3		e.	light	light	mod.	ne.	fair.
Bk. Ibis, N. 39° 40′, W. 74° 00′*	29.99	761.7	65	18.3		ssw.			5		1		ssw.	2 h'r	2 h'r	short	s.	
Schr. Jennie N. Huddell, Wilmington, N. C.†	30.04	763.0	77	25.0	95	s.			1		10		s.	hv'y	hv'y			raining.
Bk. John H. Pearson, N. 33° 14′, W. 13° 31′						nne.			1				nne.	0	0	long		clear.
Schr. Jas. Slater, N. 40° 00′, W. 74° 03′†	29.96	761.0				s.			5		10		ssw.	0	0	r'gh	sse.	foggy.
Schr. John Bracewell, Bergen Point, N. J †	29.93	760.2				w.			1		9		w.	8 h'r	8 h'r			clearing.
Bg. Josefa, Little Glace Bay, N. S.†	30.03	762.7				ssw.			3		10			3 h'r	3 h'r			raining.
Bk. Lady Hincks, N. 40° 35′, W. 69° 30′ *†	29.97	761.2									fg.							foggy.
Bg. Lilian, N. 30° 00′, W. 71° 10′†	30.20	767.1	81	27.2		ese.			3		2		se.	0	0	mod.	var.	fair.
S. S. Madrid, N. 41° 38′, E. 30° 10′ †	30.18	766.6	70	21.1	75	ne.			3		6		ne.	0	0	sm'h		fair.
Bk. Matilda C. Smith, N. 40° 15′, W. 22° 10′*†	30.05	763.3				wnw.			5		5		nw.	12 h'r	12 h'r	r'gh	nw.	clearing.
Bk. Matthias, N. 37° 38′, W. 40° 37′*†	30.35	770.9	77.0	25.0		sw.			1					1 h'r	1 h'r	3	ese.	fine.
Schr. Norena, N. 34° 00′, W. 66° 02′						se.			1		3		e.	0	0	long	var.	fine.
Bk. National Eagle, N. 36° 36′, E. 12° 10						nw.			6		5		nw.	0	0	mod.	nw.	fair.
S. S. Radnorshire, N. 34° 00′, E. 22° 26′						sse.			1		0			0	0	sm'h		clear.
Schr. Rollin Sanford, Milton, Fla.†	30.06	763.5				calm			0					0	0			hazy.
Bg. Rising Sun, N. 14° 09′, W. 58° 52′ †	30.03	762.7	84	28.9		e.			5		3		e.	0	0	mod.	e.	clear.
Bk. Rosalie, N. 8° 42′, W. 26° 48′*†	29.95	760.7				e.			2		4		ese.	¼ h'r	¼ h'r	light	se.	fair.
Bk. Saga, N. 52° 57′, E. 2° 53′*†	29.96	761.0	60	15.6		sse.			6		3		sse.	0	0	r'gh	sse.	clear.
S. Salisbury, N. 37° 06′, W. 12° 08′	30.10	764.4	67.1	19.5	85	sw.			4	5 ck	0	var.		0	0	long	var.	fair.
Bk. Samuel B. Hale, N. 33° 15′, W. 32° 20′ *†	30.20	767.1				e.			5				ne.	hv'y	hv'y	short	s.	fair.
Bk. Sunbeam, N. 48° 57′, W. 10° 25′ †	29.72	754.9	58	14.4	88	w.			6		10		nw.	4 h'r	4 h'r	h'vy	w.	cloudy.
Bk. Scud, Dragon's Mouth, Trinidad			85	29.4		e.			3		8		e.	0	0	sm'h		
S. St. Francis, N. 35° 48′, W. 47° 15′ *†	30.45	773.4	74	23.3		calm			0		2		e.	2 h'r	2 h'r	mod.	n.	fair.
Schr. Walter L. Plummer, N. 24° 39′, W. 38° 11′ *†	30.05	763.3				ese.			1		5		se.			sm'h	se.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 29° 16′, W. 47° 35′	30.14	765.5	67.2	19.6	72	e.			3		4		ne.			2	ene.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.15	765.8	66	18.9	89	ese.			2		1							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.14	765.5	65	18.3	84	ne.			3–5		3							squally.
H. M. S. Tyne, S. 30° 07′, E. 10° 05′	30.17	766.3	60	15.6	71	se.			3		9	se.				sm'h		d. clouds.
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.91	759.7	77.9	25.5	86	s.			4		5		s.	½ h'r	½ h'r	4	ssw.	d clouds.
U. S. S. Brooklyn, S. 37° 43′, W. 22° 34′*	30.02	762.5	56	13.3	69	ssw.	41.8	18.7			5		ssw.	0.02	0.5	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay *	30.05	763.3	64	17.8	83	ne.			5		2		ne.			mod.		fair.
S. S. Teneirs, S. 34° 36′, W. 53° 36′	30.23	767.8	64	17.8	84	ne.			6	c	2 k			0	0	3	ne.	blue sky.
S. S. Sirius, Rio de Janeiro, Brazil	30.10	764.5				calm			0		10			2 h'r	2 h'r			cloudy.
Bk. Alpheus Marshall, S. 1° 56′, W. 23° 49′ *†	29.90	759.4	78	25.6	91	se.			4		7		se.	0	0	light	se.	fair.
Bk. Aureola, Rio de Janeiro, Brazil †	30.05	763.3	82	27.8		se.			2		6		se.	4 h'r	4 h'r			fair.
Bk. Adelaide, S. 15° 34′, W. 36° 08′*†	30.02	762.5	79	26.1		wsw.			2		10		sw.	3 h'r	3 h'r	light	nne.	raining.
S. David Crocket, S. 36° 39′, W. 30° 44′ *	30.06	763.5	58	14.4	76	se.			3		7		se.	3 h'r	3 h'r	long	ssw.	
Bk. E. L. Pettingill, S. 50° 30′, W. 66° 02′*†	29.25	742.9	55	12.8		wnw.			6		0			0	0		n.	clear
Bk. Grey Eagle, S. 19° 05′, W. 36° 20′ *†	29.85	758.2				sse.			6		4		se.	0	0	h'vy	se.	stormy.
Bg. John Wesley, Natal, Brazil*†	29.90	759.4	81	27.2		ene.			2		2		e.	0	0			clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.18	766.6				n.			4		1			0	0			clear.
S. S. Mendoza, S. 17° 29′, W. 32° 43′†	30.05	763.3				nne.			1		2		nne.	4 h'r	4 h'r	mod.	nne.	
Bk. Mohican, S. 40° 25′, E. 8° 40′	29.74	755.4	58	14.4		sse.			5		10			8 h'r	8 h'r	short	nw.	foggy.
Bk. Pilgrim, S. 5° 42′, W. 22° 30′*†	30.00	762.0				ese.			3		2		ese.	0	0	mod.	e.	clear
Bgt. Willie, Montevideo, Uruguay*†	30.10	764.5	66	18.9		ne.			5		2		ne.	0	0	sm'h		clear.
Bk. Childwall, S. 17° 56′, W. 31° 19′ *	29.88	758.9	78	25.6		sw.			1		9		var.	0	0	cross		cloudy.
Bk. Achille F, S. 17° —′, W. 34° 45′†	29.99	761.7	71	21.7		s.			4		9		wnw.	rain	rain	sm'h		squally.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan			71	21.7	85	ne.			1		1		n.					blue sky
H. M. S. Champion, Singapore, Malay Peninsula	29.92	760.0	83	28.3	91	calm			0		10							d. clouds
H. M. S. Flying Fish, N. 32° 45′, E. 129° 52′	30.07	763.8	71	21.7	80	ne.			1		8		ne.					misty.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.11	764.8	74	23.3		e.			1		10							d. clouds.
H. P. M. S. Tamega, Canton, China	30.06	763.4	80.6	27.0	84	sse.			3		0			0	0			blue sky
U. S. Naval Hospital, Yokohama, Japan	30.26	768.6	64	17.8	86	calm			0		8		w	0	0			hazy.
U. S. S. Essex, Nagasaki, Japan	30.10	764.5	71	21.7	90	ne.			1		5							fair.
U. S. S. Hartford, Corinto, Nicaragua*	29.84	757.9	77	25.0	91	e.			1		8			0	0			fair.
U. S. S. Juniata, Canton, China	30.06	763.5	80	26.7	100	sse.			1		0			0	0			clear.
U. S. S. Monocacy, Ross Island, Corea	30.16	766.1	68	20.0	74	nnw.			1		5		e.					fair.
U. S. S. Pensacola, Yokohama, Japan			68	20.0	79	nnw.			5		10			0	0			misty.
U. S. S. Ranger, Mare Island, Cal	30.00	762.0	57	13.9	81	wsw.			2		10			0	0			overcast.
U. S. S. Richmond, Yokohama, Japan	30.21	767.3	68	20.0	90	n			2		5		sw.	0	0			fair.
S. S. Oceanic, N. 37° 40′, E. 158° 22′	30.19	766.8	61	16.1	83	w.			4–5		7			0	0	4		cloudy.
S. S. City of Chester, off Point Arena Cal.†	29.94	760.5	49	9.4	94	se.			2							h'vy	nw.	fair.
S. S. Oregon, N. 39° 14′, W. 123° 55′†	29.94	760.5	50	10.0	87	sse.			2		0					sm'h		hazy.
S. S. Orizaba, N. 33° 43′, W. 118° 12′ *†	29.97	761.2	64	17.8	67	w.			2		10		w.	0	0	sm'h	w.	cloudy.
S. S. State of California, N. 45° 03′, W. 124° 10′ †	30.11	764.8	53	11.7	80	n.			2		0					mod.	wnw.	clear.
S. S. Victoria, off Bodega Head, Cal.†	29.92	760.0	52	11.1	88	wnw.			3		8		wnw.			mod.	nnw.	hazy.
S. S. City of Pekin, N. 23° 44′, E. 118° 08′†	30.10	764.5	75	23.9	86	ne.			5		5		ne.	0	0	sm'h		fair.
S. S. City of Tokio, N. 41° 05′, W. 164° 06′			61	16.1	66	sse			4		3		sse.	0	0	mod.	nw.	clear.
S. S. Colima, San Jose, Guatemala†	29.91	759.7	75	23.9	95	nnw.			2		10		e.	0.85	21.6	mod.	se.	overcast.
S. S. Granada, N. 23° 05′, W. 107° 30′ †	29.82	757.4	80	26.7	87	wsw.			1		2		w.	0	0	mod.	sw.	clear.
S. S. San Blas, N. 7° 08′, W. 81° 25′†	29.92	760.0	78	25.6		sw.			5		10		sw.	10 h'r	10 hr	h'vy	sw.	gloomy.
S. E. B. Sutton, N. 0° 40′, W. 125° 40′*†	29.98	761.5	75	23.9	91	ese.			4		2		se.	0	0	mod.	var.	clear.
S. Parker M. Whitmore, N. 37° 00′, W. 123° 00′ *†	29.94	760.5	55	12.8		calm			0		fg.			0	0	long	nw.	foggy.
S. S. Strathleven, N. 28° 25′, E. 122° 00′	30.12	765.0	72.8	22.7	68	ene.			3		9		w.	0	0	3	var.	d. clouds.
U. S. S. Palos, Hong Kong, China	30.10	764.5	76	24.4	73	ese.			1		2		calm					clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.98	761.5	79.3	26.3	91	calm	.....	.....	0	.....	6	.....	.....	.....	.....	sm'h	.....	showery.
H. M. S. Magpie, S. 6° 05′, E. 106° 48′	29.89	759.2	82.9	28.3	83	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	3	ne.	misty.
H. M. S. Mutine, S. 25° 16′, W. 71° 45′	30.06	763.5	58	14.4	.....	s.	.....	.....	1	.....	10	.....	.....	.....	.....	1	s.	overcast
H. M. S. Nelson, Sydney, N. S. W	29.86	758.4	57	13.9	88	s.	.....	.....	1–3	.....	5	sw.	.....	.....	.....	.....	.....	squally.
U. S. S. Iroquois, Callao, Peru	30.06	763.5	62	16.7	88	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.02	762.5	58	14.4	76	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	61	16.1	94	sse.	.....	.....	2	.....	10	.....	sse.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili*	30.00	702.0	59	15.0	82	nnw.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	overcast
S. S. Australia, Sydney, N. S.W	29.99	761.7	66	18.9	94	ne.	.....	.....	5	.....	5?	.....	n.	0	0	.....	.....	cloudy.?
S. S City of New York, S 32° 42′, E. 177° 47′†	30.05	763.3	60	15.6	88	ssw.	.....	.....	7	.....	10	.....	ssw.	2 h'r	2 h'r	h'vy	ssw.	squally.
S. S. City of Sydney, S. 15° 30′, W. 171° 25′*†	29.90	759.4	79	26.1	95	nw.	.....	.....	2	.....	10	.....	.....	.....	.....	light	ne.	rainy
S. Sovereign of the Seas, S. 4° 06′, W. 108° 58′*†	30.14	765.5	76	24.4	90	se	.....	.....	4	.....	5	.....	se.	0	0	mod.	sse.	fair.
S. Armenia, S. 32° 30′, W 123° 00′*	30.30	769.6	63	17.2	83	ene.	.....	.....	5	.....	10	.....	.....	12 h'r	12 h'r	r'gh	var.	overcast.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.06	763.5	66	18.9	.....	se.	.....	.....	4	.....	8	.....	se.	.....	.....	long	se.	cloudy.
S. Storm King S. 6° 58′, W. 123° 40′*†	30.02	762.5	.....	.....	.....	ese.	.....	.....	4	.....	1	.....	ese.	0	0	long	var.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.93	760.2	79	26.1	82	ese.	.....	.....	1	.....	3	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.91	759.7	79	26.1	91	ese.	.....	.....	2	.....	3	sse.	.....	.....	.....	3	sse.	showery.
H. M S. Woodlark, Shatel Arab River, Turkey	29.98	761.5	91.5	33.1	57	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Bore, S. 34° 46′ E. 24° 44′*†	30.53	775.4	72	22.2	.....	e.	.....	.....	1	.....	0	.....	.....	0	0	long	w.	clear.
S. Frank N. Thayer, S. 31° 39′, E. 34° 39′*†	30.12	765.0	67	19.4	87	sse.	.....	.....	6	.....	2 cs;k	wsw.	.....	2 h'r	2 h'r	mod.	ssw.	blue sky
Bk. Great Surgeon, S. 36° 45′. E. 81° 02′*†	30.20	767.1	57	13.9	.....	w.	.....	.....	5	.....	10	.....	w.	0	0	mod.	sw.	cloudy.
S. S. Galatia, N. 8° 26′, E. 75° 30′†	29.75	755.6	80	26.7	87	wsw.	.....	.....	4	.....	8	.....	wnw.	10 h'r	10 h'r	rg'h	w.	showery.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 15, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.1	70.2	21.2	84	se.			1		0			0	0	clear	Roziere.
Algiers			30.12	765.0	68.0	20.0	66	ese.			1		0			0	0	clear	Thève.
La Galle			30.06	763.5	73.4	23.0	70	nw.			2		3			0	0	pretty fair	Fonfrède.
Tunis			30.06	763.6	71.2	21.8	59	n.			3		3			0	0	pretty fair	Delord.
Saida			30.16	766.0															Pérès.
Tebessa			30.14	765.6	59.7	15.4	78	n.			1		2			0	0	fair	St. Martin.
Geriville					68.0	20.0	25	w.			1		2			0	0	fair	Forfert.
Laghouat			30.17	766.3	69.1	20.6	32	ne.			1		0			0	0	clear	Abraham.
Biskra			30.09	764.3	74.5	23.6	34	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.06	763.5	55.8	13.2	71	nw.	6	2.7		8 cs		sw.		0	0	d. clouds	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.84	757.9	29.93	760.2	54.2	12.3	90	calm	0	0			9			0.12	3.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.60	751.7	30.15	765 7	55.9	13.3	84	e.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.47	748.4	30.23	767.8	59.7	15.4	64	ene.	9.8	4.4			10			0	0		Dr. Wierzbiski
Eperies	29.39	746.5	30.27	768.8	59.0	15.0	60	calm			0		10 s			0	0		Julius Mikolik.
Gratz	28.92	734.5	30.17	766.4	56.1	13.4	82	s.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.84	732.4	30.26	768.7	59.7	15.4	66	e.			3		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.74	730.0	30.08	764.0	54.9	12.7	77	ene.			1		2			0	0	clear	The Staff.
Lemberg	29.42	747.3	30.43	773.0	48.6	9.2	57	s.			5		9			0	0		Dr. T. Stanecki.
Pola	29.97	761.3	30.08	764.1	63.3	17.4	70	wnw.			3		5			0	0		I. R. Hydrographic Office.
Szathmar	29.78	756.3	30.24	768.0	65.1	18.4	50	s.			6		2			0	0		Joseph Midlinszky, S. J
Szegedin	29.92	760.0	30.20	767.1	61 9	16.6	69	e.			1		8			0	0		Karl Stancel.
Trieste	30.03	762.7	30.13	765.2	66.6	19.2	50	ne.			2		1			0	0		Royal Academy.
Vienna	29.48	748.7	30.20	767.0	54.7	12.6	93	se.			3		10			0.130	3.3	rain & fog	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.42	747.3	29.52	749.8	52.0	11.1	69	wnw.	8	3.6			4			0.520	13.2	blue sky	W. Boswell.
Armagh, Observatory	29.19	741.4	29.43	747.5	51.4	10.8	69	sse.	20	8.9			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.60	751.8	55.1	12.8	82	ssw.	15	6.7			5					d. clouds	John Hartnup.
Bolton, Sharples	29.09	738 9	29.61	752.1	52.4	11.3	75	ssw.	12	5.4			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.23	742.4	29.63	752.6	53.9	12.2	65	sw.			3		7			0.32	8.1	d. clouds	McLandsborough & Preston.
Cardington	29.66	753 4	29.77	756.1	57.0	13.9	63	sw			4.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.62	752.3	29.79	756.7	57.2	14.0	67	sw.			1		7			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.48	748.8	29.71	754.6	54.7	12.6	76	s.			6		10					overcas	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	76.5	24.7	58	ne.			1							blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.92	760.0	82.0	27.8	91	s.			5		0?					raining?	J. W. Smith.
Galway, Queen's College	29.40	746.7	29.44	747.8	48	8.9	85	s.			3		9			0.05	1.3	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	71.0	21.7	85	e.			2		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.29	744.0	29.50	749.3	51.2	10.7	70	wsw.			2		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.60	751.8	29.77	756.1	58.1	14.5	56	sw.			5		4					d. clouds	The Staff.
Guernsey	29.56	750.8	29.86	758.4	56.1	13.4	73	sw.			4		8					d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.75	755.6	29.78	756.4	55.5	13.1	60	sw.	16	7.2			6					d. clouds	The Staff.
Leicester, Museum	29.42	747.3	29.68	753.9	56.0	13.3	66	sw.			1		3					d. clouds	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.87	758.7	71.8	22.1	67	nw.			2		6			0.15	3.8	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.01	762.2	30.06	763.5	80.5	26.9	86	e.			2		6					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.17	740.9	29.68	753 9	56.7	13.7	73	ssw.			5		2					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.52	749.8	29.74	755.4	54.1	12.3	64	sw.			4		4					d. clouds	The Staff.
Plymouth	29.66	753.4	29.74	755.4	53.8	12.1	82	sw.			5		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.35	745.5	29.45	748.0	50.8	10.4	82						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.03	762.7	30.09	764.3	69.2	20.7	68	ne.			3		6					d. clouds	W. H. Lyne.
Sheffield	29.37	746.0	29.65	753.1	53.8	12.1	93	sw.			3		1			0.36	9.1	blue sky	W. F. Cooper.
Silloth Rectory	29.52	749.8	29.55	750.6	52.3	11.3	93	ssw.			2		6			0.310	7.9	showery	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.63	752.6	53.4	11.9	64	ssw.	18	8.0			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					54.7	12.6	71	s.			2.5		7					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.64	752.8	29.72	754.9	56	13.3	87	sw.			7		10					raining	W. Newcomoe.
Valencia, Observatory	29.16	740.7	29.18	741.2	51.0	10.6	82	ssw.	40	17.9			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.66	753.4	30.06	763.5	68.0	20.0	64	nw.	6.2	2.8		0	6 n		nw.	0.06	1.5	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.18	766.6	30.22	767.6	46.0	7.8		calm	0	0		5 cs	5 k	n.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.08	764.0	39	3.9	79	n.	14	6.3			10 n		nw.	0.727	18.5	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.13	765.3	30.19	766.8	36	2.2	82	nw.	8	3.6		2 k	8 ks	nw.	nw.	0.19	4.8	cloudy	G. A. Blair.
Cornwall, Ontario	30.24	768.1	30.44	773.2	30.0	— 1.1	93	nw.			1	0	1 s			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.15	765.8	30.19	766.8	35.0	1.7		w.			2	0	0			0.40	10.2	blue sky	H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.25	768.3	30.27	768.8	35	1.7	89	n.	25	11.2		0	0			0.31	7.9	clear	J. McWilliams.
Fort Garry, Manitoba*	29.67	753.6	30.55	776.0	32	0.0	88	e.	4	1.8			10 ks		s.	0.01	0.3	cloudy	James Stewart.
Fredericton, N. B	30.16	766.1	30.23	767.8	36.0	2.2	80	nw.	4	1.8			10 s			0.490	12.4	overcast	Prof. Thos. Harrison
Grand Manan, N. B	30.14	765.5	30.20	767.1	38	3.3	79	n.	22	9.8		0	8 ks		nw.	0.45	11.4	fair	J. Chipman Seeley
Granton, Ontario	29.43	747.5	30.60	777.2	31.0	— 0.6	89	ne.	2	0.9		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.94	760.5	30.07	763.8	44	6.7	83	n.	8	3.6		2 ck	8 k		ne.	0.266	6.8	cloudy	A. Allison.
Hamilton, Ontario	30.12	765.0	30.52	775.2	36.9	2.7	82	n.			2	4 k	0	n.		0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	30.17	766.3	30.52	775 2	33	0.6	82	n.	5	2.2		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S	29.93	760.2	29.95	760.7	44.0	6.7	96	n.			6	0				0.31	7.9		C. H. Rigby.
London, Ontario	29.63	752.6	30.58	776.7	31.3	— 0.4	84	ne.			2	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.96	710.2	30.32	770.1	34	1.1	96	calm	0	0		0	5 s		calm	0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.50	723.9	30.49	774.4	32	0.0	88	e.	9	4.0			10 s		e.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.22	767.6	30.44	773.2	35	1.7	66	n.	10	4.5		0	0			0.03	0.8	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.26	768.6	30.49	774.4	31.2	— 0.4	92	n.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.85	758.2	30.59	777.0	29	— 1.7	88	n.	7	3.1		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.78	756.4	30.56	776.2	35.7	2.1	78	n.			1	0	0			0.02	0.5	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.95	760.7	30.71	780.6	22	— 5.6	84	nw.	5	2.2		2 k	5 s	W.		0	0	fair	W. P. Cooke.
Port Dover, Ontario	29.80	756.9	30.53	775.4	35	1.7	80	n.	14	6.3		0	0			0	0	clear	H. Morgan
Port Stanley, Ontario	29.84	757.9	30.52	775.2	34	1.1	82	n.	8	3.6			8 k		ne.	inap.	inap.	cloudy	M. Payne.
Qu Appelle, N. W. T	28.05	712.5	30.40	772.1	33	0.6	100	se.	10	4.5			10 s		se.			thund'r st'm	Leslie Gordon.
Quebec, Quebec*	29.98	761.5	30.36	771.1	33	0.6	85	nw.	6	2.7		2 cs	0	nw.		0.03	0.8	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	30.06	763.5	30.55	776.0	29	— 1.7	77	w.	5	2.2		0	fg			0	0	fair	W. H. McIntyre.
St. Andrews, N. B	30.14	765 5	30.20	767.1	37	2.8	85	n.	10	4.5		0	0			0.54	13.7	clear	
St. John, N. B	30.02	762.5	30.16	766.1	39.0	3.9	82	nw.			1	5 cs	2 k	ne.	ne.	0.045	1.2	d. clouds	G. Hutchinson.
Saint John's, N. F	29.53	750.0	29.78	756.4	48	8.9	100	ne.			1	0	4 s?			0.45	11.4	cloudy?	J. Higgins.
St. Pierre, N. F			29.76	756.0	48.2	9.0		n.			6					0.157	4.0		The Commandant.
Saugeen, Ontario*	29.82	757.4	30.57	776.5	34	1.1	89	ne.	5	2.2		2 k	0			0.01	0.3	clear	
Stratford, Ontario	29.24	742.7	30.60	777.2	29.9	— 1.2	89	ne.	3.5	1.6		0	0			0	0	blue sky	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CANADIAN.—Continued.																			
S. W. Point, Anticosti	30.05	763.3	30.08	764.0	33	0.6	78	n.			4	0	0			0.43	10.9	clear	
Sydney, C. B.	29.90	759.4	29.97	761.2	44	6.7	74	nw.	12	5.4		5 cs	5 ks		nw.	0.07	1.8	fair	Miss Grace Pope.
Toronto, Ontario*	30.16	766.1	30.55	776.0	33	0.6	78	n.	7	3.1		0	0			0	0	clear	A. C. Hill, C. E.
Woodstock, Ontario	29.49	749.0	30.62	777.7	31.4	— 0.3	79	?	9	4.0		0	0			0	0	blue sky	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.10	764.5	44	6.7	93	n.	7	3.1			10 k		n.	0.08	2.0	cloudy	Prof. N Wolverton, M.A.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.91	759.7	29.94	760.5	68.0	20.0	96	ne.	7.0	3.1		0	0			0	0	fine	Lt. F. E. Wilmot, R. N.
Cape Town	29.89	759.2			66.8	19.3	72	nne.				1 c				0	0		I. Garfelt.
Springbok Fontein	27.86	707.6			84	28.9	36									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	30.06	763.5	30.14	765.5	58.1	14.5	87	s.			1	10						cloudy	Samuel Redolez.
Iquique	30.04	763.0	30.07	763.7	63.1	17.3	77	sw.			3							cloudy	Rafael Moreno.
Niebla	29.50	749.2	29.60	751.9	52.9	11.6	93	nw.			4	0	5		nw.	0.866	22.0	cloudy	Federico Kühling.
Punta Caldera	30.02	762.4	30.10	764.6	58.3	14.6	82	sw.			1	8 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.71	754.7	29.90	759.5				n.			6	10				0.457	11.6	cloudy	Francisco Alvarado.
Valparaiso	29.82	757.5	29.91	759.7	57.2	14.0	95	s.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang																			A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.15	765.9	30.18	766.5	62.4	16.9	81	ese.	3.8	1.7		2 ck	0			0	0	fair	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.94	760.5	29.99	761.7	51.8	11.0	90	se.	20	9			10						Oversergent Fischer.
Fanoe	29.80	756.9	29.82	757.4	53.8	12.1	84	sse.			6		9						Overloerer Lauridsen.
Godthaab, Greenland	29.37	746.0	29.41	747.1	20.5	— 6.4	74	nne.			4		6						S. Kleinschmidt.
Jacobshavn, Greenland	29.51	749.5	29.56	750.7	15.1	— 9.4		e.			2		8						
Stykkisholm, Iceland	29.05	737.9	29.10	739.0	38.8	3.8	82	calm			0		8						A. O. Thorlacius.
Thorshavn	29.32	744.6	29.34	745.2	49.3	9.6	84	ssw.	11	5			3						Overloerer Bergh.
Vestervig	29.73	755.2	29.82	757.5	53.8	12.1	82	sse.			4		3						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.81	757.2			88.2	31.2		e.	3.8	1.7			0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.61	752.2	30.26	768.7	60.1	15.6	75	sw.			1	c		sw.	sw.	0.248	6.3		M. Labroue, Director.
Alençon, Normal School	29.42	747.3	29.97	761.3	53.6	12	80	w.			1				e.	0.299	7.6		M. Nicot, Director.
Avignon, Normal School	30.08	764.0	30.16	766.0	61.2	16.2	73	sse.			1		5		sw.	0	0	cloudy	M. Giraud, Direc
Bar-sur-Seine	29.48	748.8	30.03	762.8	58.1	14.5	67	wsw.			1		5 k		w.	0.091	2.3	cloudy	M. Saillard, Directo
Beauvais, Normal School	29.69	754.0	29.95	760.6	56.7	13.7	71	sw.			2		5		sw.	0.059	1.5	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.13	740.0	30.04	762.9	55.4	13	93	sw.			2		10		ne.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.9	30.10	764.5	61.7	16.5	64	sw.			1		8		w.	0.209	5.3	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.04	763.1	60.8	16	79	w.			2		k		w.	0.35	9.		M. Malet, Director.
Brest, Naval Observatory	29.63	752.6	29.87	758.8	57.2	14.0	82	sw.			4		8		sw.	0.394	10.0		M. de Kermarée, Dir.
Caen, Normal School	29.81	757.2	29.88	759.0	60.1	15.6	56	ssw.			4				wsw.	0.08	2.		M. Berson, Director.
Châlons-sur-Marne, N. Sch	29.57	751.1	29.89	759.2	58.1	14.5	76	wsw.			2		5		sw.	0.043	1.1	cloudy	M. Jadot, Director.
Charleville, Normal School	29.41	747.1	29.92	760.0	56.8	13.8	76	sw.			2		8	s.	sw.	0	0	¾ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.72	729.6	30.06	763.5	62.6	17.0	52	sw.			2		8		sw.	0.059	1.5		M. Allnard, Director.
Cluny, Normal School	29.24	742.6	30.10	764.5	56.5	13.6	86	sw.			1				sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.24	742.6	30.10	764.4	54.1	12.3	88	ne.			4		8 k	ne.	ne.	0.020	0.5	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.65	702.4	30.16	766.1	61.3	16.3	47	s.			1		3 k			0	0	foggy	M. Jarach, Director.
Grénasque, du Rhone	29.02	737.2	30.13	765.3	65.7	18.7	60	n.			1		8		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.32	744.8	30.08	764.0	63.0	17.2	78	nw.			4		kn		n.	0	0		M. Allard, Director.
Guéret, Normal School	28.53	724.7	30.10	764.5	56.3	13.5	73	sw.			2		5 k		sw.	0.268	6.8	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.54	750.3	29.82	757.3	56.5	13.6	93	sw.			2		5		sw.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.55	750.6	30.11	764.9	59.9	15.5	75	w.			1		5			0.110	2.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.85	758.1	29.95	760.7	59.7	15.4	64	sw.			5		5	nw.	sw.	0.787	20.0	½ covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	29.04	737.6	30.09	764.3	60.1	15.6	63	s.			2		10 n					light rain	M. André, Director
Mans, Normal School	29.68	753.8	29.99	761.7	57.2	14	58	w.			4		2		nw.	0.150	3.8	slightly cl'dy	M. Richard, Directo
Marseille, Observatory	29.87	758.8	30.14	765.6	66.9	19.4	61	s.			1–2		10		n.	0	0		M. Stephan, Director.
Montlouis	24.92	632.9	29.70	755.9	51.8	11.0	63	e.	7.4	3.3			9		se.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.99	761.7	30.10	764.5	60.1	15.6	96	e.			2		10					light rain	M. Galzin, Director.
Nancy	29.06	738.2	29.85	758.1	54.3	12.4	93	ssw.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	29.87	758.8	30.04	763.0	60.6	15.9	58	sw.			1	c	7 kn; ks		sw.	0.165	4.2		M. Larocque, Director.
Perpignan, Observatory	30.03	762.7	30.14	765.5	67.8	19.9	70	ne.	1.8	0.8			10	wsw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.1			32.0	0.0		wsw.			4		1		wsw.	0.039	1.0	clear	M. Vausseaut, Director.
Privas, Normal School	29.07	738.3	30.15	765.7	57.2	14	76	w.			1		5	n.	n.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.18	639.5			40.3	4.6	100	wsw.			6		10			0.098	2.5	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.02	762.4	30.05	763.2	59.7	15.4	71	sw.			2		2		sw.	0	0	¼ covered	Lt. E. Lecante, Director.
Roche-sur-Yon, N. School	29.80	756.9	30.01	762.3	59.7	15.4	64	sw.			2		5	s.	s.	0.39	10.	cloudy	A. Brouier, Director.
Rodez, Normal School	27.91	709.0	30.06	763.6	54.0	12.2	93	se.			1		1		nw.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.90	759.4	29.95	760.6	59.4	15.2	64	nw.			4		5	nnw.		0.181	4.6	cloudy	M. Mouillot, Dir.
St Lô	29.78	750.3	29.92	759.9	57.6	14.2	63	w.			2		5	sw.	w.	0.102	2.6	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.82	757.4	29.98	761.6	60.6	15.9	56	sw.			2		5		sw.	0.020	0.5		M. Renou, Director.
Toulouse, Observatory	29.46	748.2	30.15	765.7	63.7	17.6	59	w.			1		8	w.		0.236	6.0	very cloudy	M. Baillaud, Director.
Tours	29.85	758.1	30.02	762.6	60.1	15.6	64	ssw.			2		5	wsw.	sw.	0.236	6.0	cloudy	M. de Tastes.
Versailles, Observatory	29.48	748.9	29.98	761.4	57.2	14.0	58	w.			2		5			0.028	0.7	cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.01	762.3	30.16	766.1	60.4	15.8	87	se.	4.0	1.8		c	5 k	se.		0.161	4.1		M. Cartier, Director.
GERMAN.																			
Ansbach	28.61	726.8	30.06	763.5	56.1	13.4	70	sw			2		2	sw.		0	0		Prof. Jnedt.
Bamberg	29.21	742.0	30.06	763.4	55.0	12.8	70	se.			2		1 s			0	0		Prof. Dr. Hoh.
Berlin	29.87	758.8	30.02	762.4	60.4	15.8	68	s.			1		6			0	0		Dr. Lensch.
Breslau	29.65	753.0	30.18	766.6	59.5	15.3	67	sse.			3		10					light rain	Royal University Obs'y.
Carlsruhe	29.58	751.3	30.04	762.9	58.5	14.7	72	s.			1		10	s.		0.079	2.0		Albert Senz.
Cassel	29.27	743.5	29.98	761.6	51.8	11.0	93	s.			4		6	s.		0.031	0.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.66	753.3	30.02	762.5	55.4	13.0	77	w.			1		10			0	0		Physical Society.
Friedrichshafen	28.70	729.0	30.11	764.8	57.9	14.4	75	sw.			1		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.83	757.6	29.92	759.9	56.8	13.8	73	s.			4		5			0	0		E. Preller.
Kiel	29.88	759.0	29.90	759.4	53.4	11.9	81	se.			2		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.61	752.2	30.03	762.8	57.2	14.0	67	ssw.			3		1			0	0		H. Leppig, Asst.
Magdeburg	29.78	756.5	29.97	761.3	59.0	15.0	65	sse.			3		0			0	0		Weather Observatory.
Memel	30.33	770.4	30.38	771.6	50.0	10.0	56	sse.			6		0					clear	Isermann.
Munich	28.26	717.7	30.12	765.1	58.8	14.9	58	nw.			2		4	n.		0	0		Central Station.
Neufahrwasser	30.25	768.3	30.26	768.7	52.0	11.1	66	se.			3		4			0	0		A. Lothes.
Neustadt, Palatinate	29.47	748.5	29.99	761.8	57.6	14.2	75	s.			4		10			0.055	1.4	foggy	Dicknether.
Stuttgart	29.08	738.7	29.97	761.1	60.8	16.0	39	sw.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.94	760.4	29.97	761.1	57.0	13.9	73	se.			5		5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.58	751.3	29.96	760.9	71.1	21.7		w.			1.0		7 k			1.327	33.7		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.85	758.2	29.90	759.4	90.9	32.7	57	wsw.	16.0	7.2			2	wsw.		0	0	d. clouds	
Deesa	29.43	747.4	29.89	759.3	91.5	33.1	24	ese.	15.0	6.7			0			0	0	blue sky	
Bombay	29.83	757.6	29.86	758.5	83.7	28.7	78	nnw.	14.0	6.3			3	w.		0	0	d. clouds	
Poona, Yarrowda	28.04	712.1	29.88	759.1	80.8	27.1	58	se.	11.0	4.9			2			0.05	1.3	d. clouds	
Trichinopoly	29.61	752.1	29.89	759.2	81.0	27.2	80	ene.	0.2	0.1			10			0.46	11.7	overcast	
Bellary	28.40	721.4	29.88	758.9	77.0	25.0	82	e.	4.0	1.8			10			0	0	gloomy	
Belgaum	27.33	694.1	29.86	758.6	76.3	24.6	72	e.	2.0	0.9			7	w.	e.	0.04	1.0	d. clouds	
Lahore	29.23	742.4	29.97	761.3	83.0	28.3	48	calm	0	0			0			0	0	blue sky	
Roorkee	29.03	737.3	29.92	760.1	82.8	28.2	52	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER	OBSERVERS.
INDIAN.—Continued.																			
Agra	29.38	746.2	29.94	760.4	89.0	31.7	24	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.88	733.7	29.93	760.1	82.5	28.1	62	e.	2.0	0.9			9		w.	0	0	gloomy	
Jubbulpore	28.60	726.5	29.96	760.9	82.8	28.2	50	calm	0	0			5			0	0	d. clouds	
Lucknow	29.53	750.0	29.90	759.5	85.1	29.5	40	calm	1.0	0.4			0			0	0	blue sky	
Allahabad	29.61	752.2	29.93	760.1	80.7	27.1	60	calm	0	0			0			0	0	blue sky	
Patna	29.73	755.2	29.92	759 9	83.0	28.3	65	sse.	1.3	0.6			2	sse.	sse.	0	0		
Hazaribagh	27.92	709.2	29.93	760.1	81.3	27.4	50	nnw.	2.9	1.3			4			0	0	thunder	
Cuttack	29.85	758.2	29.94	760.3	81.5	27.5	87	calm	0	0			2			0.12	3.0	d. clouds	
Calcutta, Alipore	29.91	759 8	29.93	760.3	87.0	30.6	65	nw.	1.5	0.7			1			0	0	d. clouds	
Dhubri	29.80	756.8	29.91	759.8	82.6	28.1	81	calm	0	0			3		w.	0	0	d. clouds	
Chittagong	29 84	757.9	29.93	760.2	82.7	28.2	84	wnw.	2.0	0.9			2			0	0	d. clouds	
Sibsagar	29.61	752.2	29.95	760.8	79.5	26.4	90	ne.	2.0	0.9			6	w.	w.	0	0	d. clouds	
Jeypore	28.52	724.5	29.95	760.7	89.0	31.7	20	ne.	3.7	1.6			0			0	0	blue sky	
Zanzibar	29.90	759.4			82.0	27.8	61	ssw.	3.2	1.4			4	s.	e.	0	0	d. clouds	
ITALIAN.																			
Udine	29.71	754.5	30.11	764 8	64.8	18.2	52	e.	1.8	0.8			2			0	0		Prof. Giovanni Clodig.
Milan	29.63	752.6	30.15	765 7	63.0	17.2	52	nw.	3.1	1.4			4	nnw.		0	0		Prof. G.V.Schiapparelli
Padua	30.01	762.3	30.12	765.1	63.3	17.4	47	n.	0.7	0.3			2	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.25	742.9	30.15	765 8	61.2	16.2	57	ssw.	1.3	0.6			5	n.		0	0		Prof. F. F. Denza.
Genoa	29.93	760.1	30.11	764.9	69.4	20.8	35	sw.	4.3	1.9			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.22	716.9	30.13	765.3	58.3	14.6	52	w.			4		7			0	0		Prof. D. C. Bruno.
Pesaro	30.08	764.0	30.13	765.2	60.1	15.6	81	n.	15.4	6.9			1			0	0		Prof. Luigi Guidi.
Florence	29.83	757.7	30.09	764.2	67.1	19.4	38	ne.			2		1			0	0		Prof. Costantino Pittei
Leghorn	29.97	761.1	30.05	763.3	66.2	19.0	41	nw.	8.1	3.6			1			0	0		Prof. P. Monte.
Rome	29.87	758.8	30.05	763.2	69.4	20.8	46	nw.	1.3	0.6			0			0	0		Prof. P. Tacchini.
Lecce	29.75	755.6	30.00	762.0	65.5	18.6	73	ene.	11.2	5.0			10	ne.		0.327	8.3		Prof. C. de Giorgi.
Cosenza	29.11	739.5	30.00	762.0	62.6	17.0	61	w.	1.8	0.8			10	sw.		0.268	6.8		Prof. D. Conti.
Cagliari	29.85	758.3	30.04	763.1	63.1	17.3	70	s.			2		0			0.094	2.4		Prof. A. Pacinotti.
Palermo	29.81	757.1	30.06	763.4	68.2	20.1	69	ne.	4.3	1.9			3	wnw.		1.394	35.4		Prof. G. Caccintore.
Syracuse	29.92	760.0	29.97	761.1	70.5	21.4	64	e.	1.8	0.8			7	wnw.		0.039	1.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.52	749.9	30.04	762.9	67.6	19.8	60	n.	1.8	0.8			4	sw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.08	764.1	30.11	765.0	62.4	16.9	96	e.			2	9c;ck	1 k	w.	w.	0.035	0.9	cloudy	H. Hattori.
Awomori	30.09	764.3	30.12	765.0	56 0	13.3	91	sse.	0.4	0.2			10 s		sw.	0.043	1.1	overcast	K. Ogawa.
Hamamatsu	29.97	761.2	30.09	764.2	63.6	17.6	97	calm			0	6 cs	4 s	sw.	sw.	0.402	10.2	cloudy	Sekigawa & Yamazaki.
Kagoshima	30.08	764.1	30.10	764.4	65.5	18.6	91	calm			0	0	8 cs;s		w.	0	0	cloudy	G. Miyanohaza.
Kanazawa	29.99	761.7	30.09	764.2	63.6	17.6	95	calm	0	0			10ks;s	sw.		0.250	6.3	cloudy	S. Endo.
Kioto	29.91	759.7	30.08	764.1	64.8	18.2	89	n.	1.1	0.4			10 s			0.209	5.3	cloudy	M. Tojima.
Kochi	30.08	764.1	30.10	764.6	67.9	19.9	86	w.	1.3	0.5			10 s		sw.	1.14	28.9	overcast	K. Kusunose.
Miasaka	30.07	763.8	30.10	764.5	64.2	17.9	99	wsw.			1	2 ck	3ck;s	w.	w.	0.614	15.6	fair	K. Masusaki
Miyako	30.06	763.4	30.17	766.2	58.4	14.7	95	wsw.	3.7	1.6			10 s			0.221	5.6	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.89	759.2	30.09	764.3	64.5	18.1	90	calm	0	0		0	0			0	0	clear	S. Takenayasu.
Niigata	30.05	763.3	30.08	764.0	65.7	18.7	73	se.	6.5	2.9			10 s		se	0.350	8.9	covered	Satoo & Tomikawa.
Nobiru	30.12	765.0	30.13	765.4	62.3	16.8	96	n.	4.1	1.8			10n;ks			0.350	8.9	light rain	Yoslino & Midzushina.
Numazu	30.09	764.3	30 12	765.1	62.6	17.0	90	e.			1		10ks;s		s.	0.130	3.3	cloudy	R. Kaneda.
Osaka	30.06	763 5	30.07	763.8	64.0	18.3	89	ne.	7.3	3.2			10 s		sw.	0.290	7.4	cloudy	H. Omura.
Sakai	30.06	763.6	30.07	763.8	61.8	16.6	95	calm			0	5 c	4 ks	nw.	sw.	0.138	3.5	fair	Yamawchi&Sakamoto.
Shimonoseki	29.95	760.7	30.09	764.4	66.4	19.1	95	calm			0	2cs	s	ssw.	ssw.	0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	30.06	763.5	30.13	765.4	61.5	16.4	98	nnw.	12.1	5.4			10 n			0.501	12.7	raining	The Staff.
Wakayama	30.02	762.5	30.07	763.8	67.3	19.6	89	calm	0	0			10 n			0.097	2.4	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.08	764.0	73.3	22.9	64	ene.	18.0	8.0			10k;ks		ene.	0.03	0.8	cloudy	The Staff.
MEXICAN.																			
Leon	24.33	618.8	30.03	762.7	56.3	13.5	88	sw.	0.9	0.4		1 c	1 s			inap.	inap.	clear	Prof. M. Leal.
Mazatlan	29.64	752.9	29.90	759.4	76.0	24.4	86	nne.	1.6	0.8		0	1 k			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.82	757.5	29.82	757.5	58.1	14.5		wsw.			4					0.012	0.3		
Groningen	29.75	755.6	29.80	757.0	49.8	9.9		s.			2					0.016	0.4		
Helder	29.75	755.6	29.75	755.6	51.8	11.0		sw.			2					0.075	1.9		
Hellevoetsluis	29.80	756.8	29.80	756.8	54.9	12.7	95	wsw.			3					0.098	2.5		
Utrecht	29.78	756.4	29.83	757.6	53.4	11.9	78	s.			3		10			0.067	1.7	dull	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.5			81.0	27.2	79	nne.	0	0			5			0.098	2.5		Lt.J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.61	752 1	29.67	753.7	58.3	14.6	48	sse.	18	8			10			0	0		
Brono	29.71	754.6	29.75	755.6	55.8	13.2	51	se.			4		0			0.197	5.0		
Christiania	29.86	758.5	30.01	762.3	48.4	9.1	84	sse.	7	3			10			0.008	0.2		
Gjæsvær	29.52	749.9	29.55	750.5	47.8	8.8		wsw.			8		10						
Lodingen	29.70	754.3	29.74	755.5	50.2	10.1	86	sw.			4		10			0.252	6.4		
PORTUGUESE.																			
Angra, Azores					66.6	19.2	77	wnw.	9.4	4.2			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.10	764.6	30.19	766.8	72.9	22.7	62	se.	3.8	1.7			4		n.	0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.83	757.7	30.17	766.2	63.3	17.4	45	n.	10.5	4.7			1			0	0		The Staff.
Ponta Delgada, Azores	30.25	768.3	30.32	770.1	68.0	20.0	64	w.	2.5	1.1			4			0	0		
Saint Paul de Loando	29.71	754 7	29.91	759.8	75.7	24.3	89	w.	1.3	0.6			10			0	0		
San Salvador, Congo	28.10	713.8	29.93	760.3	79.0	26.1	63	w.			1		10			0	0		
Serra da Estrella	25.36	644.0	30.08	764.1	50.0	10.0	62	se.	1.8	0.8			3			0.197	5.0		
RUSSIAN.																			
Akmolinski	28.77	730.7	29.85	758.1	47.5	8.6	29	sw.	18	8		5 c	0			0	0		Major K. Lasarew.
Archangel	30.00	763.4	30.08	763.9	36.7	2.6	96	sw.	9	4			10			0.039	1.0		Capt. Sseliwerstow
Ashurada	30.11	764.7	30.01	762.3	76.6	24.8	80	nw.	4	2		0	8 kn			0.449	11.4		
Astrakhan	30.53	775 5	30.46	773.6	44.2	6.8	33	n.	20	9		0	3 s			0	0		Capt. Wisganow.
Baku	30.22	767.6	30.17	766.4	54.5	12.5	90	n.	45	20			9 n			1.091	27.7		
Barnaul	29.70	750.0	30.28	769.2	38.1	3.4	45	s.	2	1			0			0	0		Meteorological Obs'y
Bielosersk	29.93	760.3	30.41	772.5	44.8	7.1	49	wsw.	16	7		ck	8 s			0	0		
Dorpat	30.31	769.9	30.56	776.2	45.7	7.6	59	s.	9	4		0	0			0	0		Observatory.
Ekaterinburg	28.96	735.6	29.98	761 4	22.5	— 5.3	57	ne.	13	6			10 n					snowing	Meteorological Obs'y.
Elissawetgrad	30.24	768.1	30.71	779 9	48.0	8.9	41	ene.	18	8		0	1 s			0	0		
Irkutsk	28.92	734.5	30.05	778.6	31.6	— 0.2	81	calm			0		0			0	0		
Kasalinsk					58.8	14.9	53	sw.	9	4		0	8 s;n						
Kasan	30.13	765.4	30.42	772.6	35.6	2.0	94	nw.	7	3		4 c	0			0	0		Observatory.
Kem	30.01	762.3	30.06	763.6	42.8	6.0	82	w.	18	8			10 ks			0	0	h'vy clouds	
Kertch	30.46	773 7	30.48	774.3	49.6	9.8	56	ene.	18	8			0			0	0		Lagorio & Snetyrea.
Kieff	30.05	763.3	30.71	780.1	44.6	7.0	49	se.	9	4		0	0			0	0		Observatory.
Koslov	30.18	766.5	30.71	779.9	38.7	3.7	60	nnw.	11	5		0	0			0	0		
Libau	30.34	770.7	30.37	771.3	50.4	10.2	49	se.	11	5		0	0			0	0		E. Quaas.
Lugan	30.45	773.5	30.67	778.0	44.6	7.0	32	nne.	34	15			3			0	0	light clouds	Meteorological Obs'y.
Moscow	30.20	767.1	30.70	779.8	43.3	6.3	58	nw	3.4	1.5		1 cs	0			0	0		Meteorological Obs'y
Nikolaiev	30.52	775.2	30.59	777.0	49.8	9.9	52	ene.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaiewsk-on-the-Amoor	29.91	759.7	30 10	761.9	42.1	5.6	69	nw.	4	2			10 n						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Pekin, China	29.95	760.8	30.10	764.4	63.9	17.7	84	sw.	2.2	1.0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	29.67	753.6	30.01	762.3	68.7	20.4	36	calm	0	0			10 ks			0	0		
Petrozavodsk	30.11	764.8	30.31	769.6	45.1	7.3	66	nw.	16	7		0	3 ks			0	0		Dr. Bergmann.
Pinsk	30.11	764.8	30.62	777.8	48.9	9.4	46	se.	22	10		0	2 s			0	0		
Poti	30.11	764.8	30.14	765.6	63.5	17.5	98	s.	7	3			10 n			0.744	18.9		
St. Petersburg	30.48	774.2	30.50	774.8	47.1	8.4	51	sw.	13	6		3 c	0			0	0	light clouds	Central Physical Obs'y.
Samarkand	27.64	702.0	30.06	763.5	65.3	18.5	63	calm	0	0		0	0			0	0		
Semipalatinsk	29.60	751.9	30.28	769.0	45.1	7.3	29	se.	13	6			5			0	0		Major Lasarew
Sevastopol	30 15	765.9	30.37	771.3	60.1	15.6	32	ne.	40	18		0	1 s			0	0		
Staroi Bykhov	30.17	766.2	30.74	780.7	50.0	10.0	46	se.	13	6		0	0			0	0		
Tashkend Laboratory	28.41	721.6	30.02	762.6	72.3	22.4	29	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.69	728.7	30.10	764.4	62.6	17.0	72	nw.	11	5			10 n			0.051	1.3	light rain	Physical Observatory.
Vernoe	27.58	700.4	30.09	764.3	50.0	10.0	43	calm	0	0		0	0			0	0		
Viatka																			
Warsaw	29.93	760.1	30.36	771.1	51.3	10.7	67	sse.	22	10		3 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.94	760.4	30.24	768.0	32.7	0.4	51	sw.	4	2			10			0	0	light clouds	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	70.9	21.6	66	s.	7.6	3.4		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.04	762.9	30.10	764.4	67.5	19.7	68	se.	1.6	0.7		2	4	n.		0.346	8.8	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.15	689.6	30.09	764.3	59.5	15.3	68	sw.	3.8	1.7		0	6			0.028	0.7	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.3	30.06	763.6	68.7	20.4	54	s.	8.9	4.0		0	8			0	0	very cloudy	The Staff.
Murcia, Met. Obs'y	29.92	760.0	30.08	763.9	71.6	22.0	69	sw.	2.0	0.9		4	5	e.		0	0	almost cov.	Olayo Diaz, Director.
Oviedo	29.33	744.9	30.09	764.2	50.0	10.0	93	se.	6.5	2.9		6 s	4 n	n.	ne.	0.039	1.0	cloudy	Prof. L. G. Fradas.
Santiago, Met. Obs'y	29.20	741.6	30.09	764.2	59.4	15.2	70	sw.	4.3	1.9			5			0.012	0.3	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.97	761.3	30.02	762.5	76.4	24.7	85	e.	2.2	1.0		cs	2 k	e.	n.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.3	29.95	760.8	80.0	26.7	79	ne.	11.0	4.9		0	7 k		n.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.3	30.11	764.8	67.3	19.6	74	w.	5.7	2.5		6	4	nw.	nw.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.90	759.5	29.99	761.8	78.8	26.0	91	calm	0	0		2 c	2 k	s.	s.	0.177	4.5	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.98	761.4	30.02	762.4	42.1	5.6	82	sw.			4		8			0	0		
Umea	30.05	763.2	30.10	764.5	45.3	7.4	80	sw.			7		4			0	0		
Hernosand	29.87	758.8	29.93	760.1	47.8	8.8	76	ssw.			4		0			0	0		
Stockholm	30.06	763.6	30.24	768.1	51.8	11.0	73	sse.			4		1			0	0		
Wisby	30.20	767.1	30.26	768.6	51.1	10.6	77	sse.			6		0			0	0		
Sub-series.																			
Upsala	30.12	765.0	30.21	767.2	51.8	11.0	76	s	16.1	7.2			8		s.	0.079	2.0		H.H. Hildebrandesson
Swiss.																			
Geneva	28.69	728 7	30.11	764.7	57.6	14.2	78	n.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.15	765.9	66.7	19.3	72	ene.	27	12.0			8		ne.	0	0		The Observatory.
Valona			30.09?	764.3?	62.1	16.7		ne.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.03	762.8	78.1	25 6	61	ne.			1	1 ck		w.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.31	769.9	30.39	771.9	44	6.7	68	n.	10	4.5			10 s		nw.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.94	760.5	30.61	777.5	29	— 1.7	88	nw.	8	3.6		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24 99	634.7	29.89	759.2	41.0	5.0	80	e.	1	0.4			10 n			0.05	1.3	light rain	J. B. Turton.
Assinnaboine, Ft., Montana	27 39	695.7	30.31	769.9	32	0.0	71	ne.	8	3.6			10 s		nw.	0.03	0.8	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.19	766.8	64.0	17.8	97	nw.	6	2.7		5 ck	sk.	nw.		0	0	fair	Edward A. Beals.
Atlantic City, New Jersey	30.22	767.6	30.23	767.8	51	10.6	72	n.	16	7.2		6 ck	0			0.52	13.2	fair	Jas. M. Watson.
Augusta, Georgia	29.95	760.7	30.14	765.5	64.2	17.9	82	nw	2	0.9		0	0			0	0	clear	Louis Duane.
Baltimore, Maryland	30.30	769.6	30.35	770.9	53	11.7	61	n.	8	3.6		6 k	0	w.		0	0	fair	Geo. W. Felger.
Barnegat City, New Jersey	30.23	767.8	30.25	768.3	50.0	10.0	77	n.	30	13.4		4 ck	0	n.		0.23	5.8	fair	A. Hill.
Bennett, Fort, Dakota	28.73	729 7	30.35	770.9	37.0	2.8	82	se.	2	0.9		2 c	2 s	se.	se.	0.01	0.3	fair	A. Pritchard.
Benton, Fort, Montana	27.40	695.9	30.31	769.9	33	0.6	100	calm	0	0			10 n			0.13	3.3	snowing	Thomas Morgan.
Bismarck, Dakota	28.56	725.4	30.44	773 2	28	— 2.2	94	ne.	5	2.2		0	0			0	0	clear	B. O. Lenoir.
Block Island, Rhode Island	30.20	767.1	30.24	768.1	48.5	9.2	82	n.	30	13.4		5 cs	3 s		ne.	0.45	11.4	cloudy	J. T. Elker.
Boise City, Idaho	27.15	689.6	30.01	762.2	40	4.4	92	se.	2	0.9			10 n			0.48	12.2	light rain	B. E. Light.
Boston, Massachusetts	30.11	764.8	30.27	768.8	42.0	5.6	73	nw.	17	7.6		1 ck	1 s			0.33	8.4	clear	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	71.0	21.7	94	calm	0	0		2 cs	2 ks	sw.		0.60	15.2	fair	John McGlone.
Buffalo, New York	29.74	755.4	30.50	774.7	37.2	2.9	82	n.	12	5.4		0	9 ks		nw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.28	718.3	30.38	771.6	30.9	— 0.6	88	e.	8	3.6		0	4 s			0	0	fair	A. Schneider.
Cairo, Illinois	30.01	762.2	30.41	772.4	46.7	8.2	86	ne.	12	5.4		0	0			0.01	0.3	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.90	759.4	30.10	764.5	47.7	8.7	94	n.	7	3.1		2 cs	0			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	62.5	16.9	84	n.	32	14.3			10 ks		n.	1.63	41.4	cloudy	A. K. Alderson.
Cape May, New Jersey	30.22	767.6	30.25	768.3	52.0	11 1	69	n.	22	9.8		2 cs	0	nw.		2.33	59.2	clear	Wm. Bolton.
Cape Mendocino, California	30.21	767 3	29.90	759.4	46	7.8	93	nw.	6	2.7		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	77.0	25.0	90	calm	0	0		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.04	763.0	30.10	764.5	73.3	23.1	100	w.	3	1.3		0	fg			0	0	dense fog	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.16	766.1	65.5	18.6	81	ne.	6	2.7		10 cs	fg.	ne.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.39	746.5	30.22	767.6	62.0	16.7	87	nw.	9	4.0			10 s		n.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	30.14	765.5	36.2	2.3	94	s.	12	5.4			fg			0.03	0.8	dense fog	E. McGovern.
Chicago, Illinois	29.82	757.4	30.53	775.4	45.5	7.5	60	e.	10	4.5		0	5 ks		e.	0.07	1.8	fair	Wm. Norrington.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	55	12.8	86	n.	33	14.8		4 k	0	w.		0.51	13.0	fair	C. F. Dickens.
Cincinnati, Ohio	29.76	755.9	30.42	772 7	46.8	8.2	86	ne.	5	2.2		1 ck	1 s			0	0	clear	L. Dunne.
Cleveland, Ohio	29.72	754.9	30.46	773.7	45.3	7.4	63	ne.	10	4.5			10 n		n.	inap.	inap.	light rain	J. B. Newlin.
Columbus, Ohio	29.57	751.1	30.43	772.9	44	6.7	83	n.	11	4.9			10 ks		n.	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.26	717.8	30.21	767.3	58.5	14.7	87	ne.	8	3.6			10 s			0.39	9.9	cloudy	C. E. King.
Custer, Fort, M. T.	26.93	684.0	30.17	766.3	36	2.2	92	n.	3	1.3			10 n			0.06	1.5	light rain	T. Gibson.
Davenport, Iowa	29.87	758.7	30.53	775 4	41.2	5.1	73	e.	4	1.8		4 cs	hz.	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	30.13	765.3	56.2	13.4	90	calm	0	0			10 ks		se.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.12	765.0	29.8	— 1.2	88	ne.	4	1.8		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.44	646.2	30.12	765.0	38	3.3	73	calm	0	0			10 s		s.	0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del.	30.22	767.6	30.24	768 1	55	12.8	80	n.	35	15.6		2 k	0	n.		1.65	41.9	clear	F. W. Mixer.
Denver, Colorado	24.82	630.4	30.08	764.0	38.7	3.7	92	w.	3	1.3			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.62	752.3	30.54	775.7	37	2.8	82	calm	0	0			sk.			0	0	dense smoke	F. W. Conrad.
Detroit, Michigan	29.83	757.7	30.54	775.7	40.0	4.4	82	n.	7	3.1		6 k	0	n.		0	0	fair	E. R. Brace.
Dodge City, Kansas	27.64	702.0	30.28	769.1	46	7.8	71	e.	12	5.4			10 s		e.	0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.85	758.2	30.57	776.5	41.2	5.1	67	n.	1	0.4		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.83	757.7	30.59	777.0	42	5.6	82	n.	5	2.2		0	9 s			0	0	cloudy	N. B. Conger.
Eastport, Maine	30.12	765.0	30.19	766.8	38.0	3.3	77	n.	16	7.2		1 k	2 s	n.	ne.	0.26	6.6	clear	D. C. Murphy.
Elliott, Fort, Texas	27.47	697.7	30.26	768.6	53	11.7	83	e.	4	1.8			10 s			0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.32	668.5	30.06	763.5	59.5	15.3	84	e.	4	1.8			10 s		e.	0	0	cloudy	J. O'Dowd.
Erie, Pennsylvania	29.74	755.4	30.47	773.9	43	6.1	93	n.	18	8.0			10 n			0.05	1.3	light rain	C. A. Shaw.
Escanaba, Michigan	29.94	760.5	30.61	777.5	30.0	— 1.1	88	n.	2	0.9		1 ck	2 k; s			0	0	clear	George Heathcote.
Galveston, Texas	30.08	764.0	30.12	765.0	73	22.8	90	e.	12	5.4		0	8 ks		e.	0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.88	758.9	30.55	776.0	32.5	0.3	83	ne.	5	2.2		0	0			0	0	clear	Wm. H. Fallon.

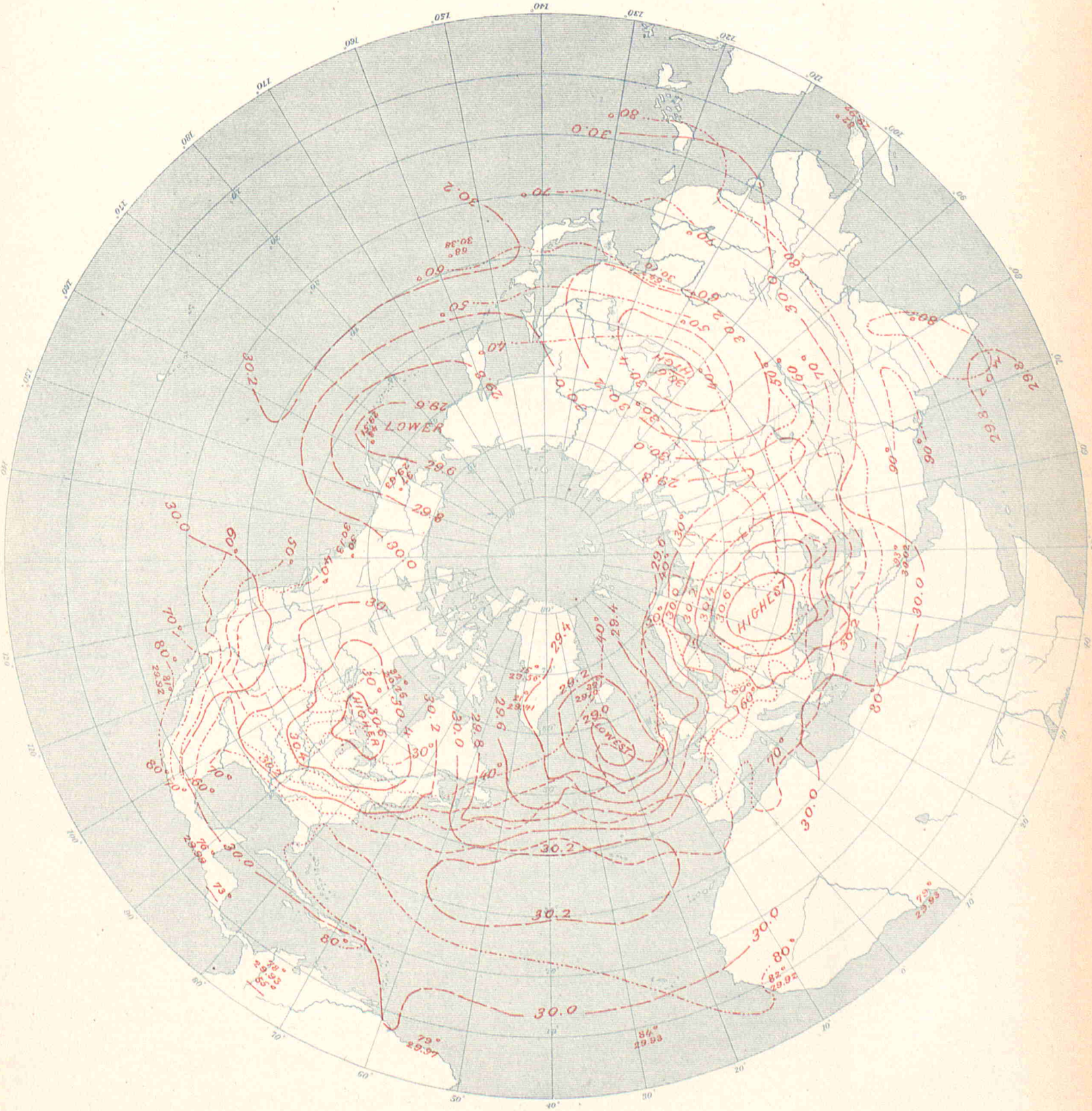
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.21	640.3	29.91	759.7	55.1	12.8	63	ne.	2	0.9	.....	4 ck	0	sw.	.....	0	0	fair	Chas. A. Read.
Hatteras, North Carolina	30.08	764.0	30.09	764.3	69.0	20.6	93	ne.	26	11.6	.....	.....	10 s	.....	ne.	0.95	24.1	cloudy	R. M. Crawford.
Helena, Montana	25.87	657.1	30.17	766.3	32	0.0	100	ne.	4	1.8	.....	.....	10 n	.....	.....	blank	blank	light snow	I. H. Jones.
Huron, Dakota	28.95	735.3	30.38	771.6	44.3	6.8	80	ne.	5	2.2	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.62	752.3	30.42	772.7	40.4	4 7	82	ne.	4	1.8	.....	0	8 k	.....	ne.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.06	763.5	30.10	764.5	74.0	23.3	93	ne.	16	7.2	.....	0	2 ks	.....	.....	0	0	clear	I. A. Reed.
Jacksonville Florida	30.07	763.8	30.11	764.8	73.5	23.1	90	s.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.87	758.7	30.54	775.7	38.0	3.3	89	n.	5	2.2	.....	2 k	0	w.	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	81	27.2	82	ne.	8	3.6	.....	0	2 k	.....	ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	65	18.3	90	ne.	44	19.7	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.20	741.7	30.24	768.1	59.6	15.3	89	n.	7	3.1	.....	.....	10 s	.....	.....	0.25	6.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.82	757.4	30.60	777.2	33	0.6	88	s.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.59	751.6	30.49	774.4	42	5.6	82	e.	1	0.4	.....	7 k	0	w.	.....	0	0	fair	T. S. Outram.
Lewiston, Idaho	29.26	743.2	30.12	765.0	39.0	3.9	72	ne.	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	C. E. Butler.
Little Rock, Arkansas	30.00	762.0	30.32	770.1	55.0	12.8	74	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.98	761 5	56	13.3	86	w.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	T. S. Collins.
Louisville, Kentucky	29.80	756.9	30.37	771.4	43.5	6.4	87	n.	10	4.5	.....	0	1 s	.....	.....	0	0	clear	L. M Dev.
Lynchburg, Virginia	29.54	750.3	30.23	767.8	63.0	17.2	78	e.	8	3.6	.....	.....	10 s	.....	ne.	0	0	threatening.	Jno. Healy.
Mackinaw City, Michigan	29.94	760.5	30.61	777.5	34.0	1.1	78	nw.	2	0.9	.....	0	2 s	.....	nw.	0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.08	764.0	30.10	764.5	71.0	21.7	94	ne.	16	7.2	.....	0	9 s	.....	ne.	0.20	5.1	cloudy	William Daly.
Maginnis, Fort, Montana	25.67	652.0	30.21	767.3	31	— 0.6	81	e.	12	5.4	.....	.....	10 n	.....	e.	0.15	3.8	light snow	F. Burke.
Marquette, Michigan	29.87	758.7	30.61	777.5	33.0	0.6	68	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.99	761.7	30.33	770.4	51	10.6	93	n.	8	3.6	.....	.....	10 s	.....	n.	0.25	6.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.81	757.2	30.57	776.5	43.0	6.[illegible]	74	e.	9	4.0	.....	0	3 ks	.....	e.	0.05	1.3	clear	W. Lins.
Mobile, Alabama	30.12	765.0	30.16	766.1	69.1	20.6	84	n	5	2.2	.....	7 ck	3s;sk	nw.	.....	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.94	760.5	30.17	766 3	69	20.6	84	nw.	6	2.7	.....	6 cs	2 s	w.	.....	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.47	748.5	30.49	774.4	28	— 2.2	88	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.84	605.5	30.18	766.0	17.3	— 8.2	95	nw.	40	17.9	.....	0	0	.....	.....	0.21	5.3	clear	S. W. Beall.
Nashville, Tennessee	29.72	754.9	30.30	769.6	54.0	12.2	80	n.	7	3.1	.....	.....	10 s	.....	n.	0.10	2.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.16	766.1	30.28	769.1	44	6.7	65	n.	12	5.4	.....	3 c	0	.....	.....	0.04	1.0	clear	J. H. Sherman.
New London, Connecticut	30.24	768.1	30.29	769.4	48	8.9	71	n.	7	3.1	.....	2 k	0	n.	.....	0.16	4.1	clear	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.13	765.3	72.0	22.2	83	ne.	9	4.0	.....	4 c	5 ks	nw.	se.	0	0	cloudy	M. Herman.
New York, New York	30.13	765 3	30.31	769.9	48.1	8.9	63	w.	12	5.4	.....	5 cs	0	sw.	.....	inap.	inap.	fair	H. J. Peurod.
Norfolk, Virginia	30.13	765.3	30.10	760.1	63.0	17.2	77	n.	19	8.5	.....	0	9 s	.....	ne.	0.08	2.0	cloudy	Wm. Davis.
North Platte, Nebraska	27.32	693.9	30.28	769.1	40 6	8.1	76	se.	22	9.8	.....	0	7 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	38.0	3.3	89	calm	0	0	.....	0	fg.	.....	.....	0	0	light fog	J. Dascomb.
Omaha, Nebraska	29.31	744.5	30.51	774.9	43.2	6.2	82	se.	6	2.7	.....	..	10 s	.....	s.	0	0	cloudy	A. Pollak
Oswego, New York	30.13	765.3	30.46	773.7	39.5	4.2	73	ne.	16	7.2	.....	0	8 k	.....	ne.	0	0	cloudy	J. G. Linsley
Palestine, Texas	29.69	754.1	30.25	768.3	62.0	16.7	93	e.	11	4.9	.....	.....	10 ks	.....	e.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	68.3	20.2	84	nw.	4	1.8	.....	4 ck	sk.	w.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa.	30.21	767.3	30.31	769.9	49	9.4	71	n.	12	5.4	.....	2 c	0	sw.	.....	0.03	0.8	clear	T. F. Townsend.
Pike's Peak, Colorado	17.87	453.9	30.15	765 8	16	— 8.9	67	sw.	32	14.3	.....	3 cs	0	w.	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.60	751.8	30.42	772.7	47.3	8.5	63	n.	7	3.1	.....	.....	10 s	.....	n.	0	0	cloudy	G. C Schaeffer.
Port Huron, Michigan	29.83	757.7	30.52	775.2	38.2	3.4	72	ne.	16	7.2	.....	0	5 s	.....	n.	0.09	2.3	fair	M. H. Perry
Portland, Maine	30.23	767.8	30.28	769.1	44.0	6.7	60	n	5	2.2	.....	0	0	.....	.....	0.07	1.8	clear	W. W. Eichelberger.
Portland, Oregon	30.05	763.3	30.12	765.0	40.0	4.4	100	calm	0	0	.....	0	fg.	.....	.....	0	0	light fog	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.70	627.4	29.86	758.4	51.3	10.7	78	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.20	767.1	30.23	767.8	47.5	8.6	66	n.	19	8.5	.....	0	9 ks	.....	ne.	0.09	2.3	cloudy	C. N. Kitchel.
Red Bluff, California	29.56	750.8	29.92	760.0	49	9.4	86	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.94	760.5	30.18	766.6	70.8	21.6	89	e.	4	1.8	.....	0	5 s	.....	se.	0	0	fair	Fred. Belford.
Rochester, N. Y	29.82	757.4	30.49	774.4	38	3.3	75	ne.	16	7.2	.....	8 k	0	n	.....	inap.	inap.	cloudy	
Roseburg, Oregon	29.52	749.8	30.08	764.0	37	2.8	89	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.82	757.4	29.90	759.4	49.8	9.9	88	s.	1	0.4	.....	.....	8 s	.....	nw.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.86	758.4	30.48	774.2	40.1	4.5	96	n.	14	6.3	.....	0	5 s	.....	n.	0	0	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.60	751.8	29.63	752.0	37	2.8	94	ne.	3	1.3	.....	5 cs	5 s	.....	ne.	0.05	1.3	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.66	753 4	30.54	775.7	41.0	5.0	77	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.62	752.3	30.52	775.2	34	1.1	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.59	650.0	29.99	761.7	44	6.7	76	ne.	6	2.7	.....	.....	10 n	.....	.....	0.22	5.6	light rain	J. Craig.
San Diego, California	29.89	759.2	29.96	761.0	61.5	16.4	68	nw.	6	2.7	.....	10 k	0	s	.....	0	0	cloudy	F. R. Day.
Sanford, Florida	30.03	762.7	30.08	764.0	73.0	22.8	99	sw.	4	1.8	.....	0	fg.	.....	.....	inap.	inap.	dense fog	J. B. Marbury.
Sandusky, Ohio	29.83	757.7	30.52	775.2	44	6.7	68	ne.	32	14.3	.....	0	5 ks	.....	ne.	0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.20	768 6	30.28	769.1	48.0	8.9	71	ne.	34	15.2	.....	8 k	0	ne.	.....	0.06	1.5	cloudy	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	53.0	11.7	86	sw.	2	0.9	.....	.....	9 s	.....	w.	0	0	cloudy	N. Gorom.
Savannah, Georgia	30.01	762.2	30.10	764.5	71	21.7	90	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.57	674.9	30.27	768.8	30.7	— 0.7	92	nw.	5	2.2	.....	.....	10 n	.....	.....	0.41	10.4	light snow	S. W. Morrison.
Shreveport, Louisiana	30.00	762.0	30.24	768.1	61.5	16.4	86	e.	8	3.6	.....	.....	10 s	.....	e.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Mattingly.
Sitka, Alaska	30.06	763.5	30.13	765.3	50	10.0	90	calm	0	0	.....	.....	10 ks	.....	e.	0.35	8.9	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.87	758.7	30.35	770.9	52.0	11.1	80	e.	6	2.7	.....	3 cs	0	s.	.....	0	0	clear	J. B. Campbell
Smithville North Carolina	30.07	763.8	30.11	764.8	68.0	20.0	100	n.	6	2.7	.....	.....	10s;fg	.....	.....	0.02	0.5	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.11	764.8	34	1.1	56	calm	0	0	.....	0	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.81	757.2	30.50	774.7	40	4.4	78	n.	9	4 0	.....	1 ck	2 s	w.	e.	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.13	689.1	30.16	766.1	64.0	17.8	90	se.	20	8.9	.....	.....	10 s	.....	se.	0.03	0.8	cloudy	Louis Dorman.
Tatoosh Id., Wash. Ter	30.05	763.3	.....	.....	46.0	7.8	85	e	6	2.7	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.22	691.4	29.93	760.2	49	9.4	23	w.	.....	.....	1	3 cs	0	.....	.....	0	0	clear	R. O. Lord.
Toledo, Ohio	29.81	757.2	30.51	774.9	39	3.9	82	nw	8	3.6	.....	0	6 k	.....	nw	0	0	fair	A. Buell.
Unalashka, Alaska	29.49	749.0	29.51	749.5	48	8.9	86	se.	26	11.6	.....	.....	10 n	.....	se.	0.04	1.0	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.97	761.2	30.23	767.8	61.5	16.4	83	n.	7	3.1	.....	.....	10 s	.....	n.	0.67	17.0	cloudy	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.20	767.1	30.32	770.1	53.0	11.7	66	n.	8	3.6	.....	.....	10 s	.....	n.	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.14	663.9	30.07	763.8	44.5	6.9	93	sw.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	30.07	763 8	30.13	765.3	72.0	22.2	90	n.	1	0.4	.....	6 c; k	0	nw.	.....	inap.	inap.	fair	Samuel A. Haney.
Yankton, Dakota	29.07	738.4	30.40	772.1	39.3	4.1	94	se.	6	2.7	.....	3 cs	0	se.	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.65	753.1	29.80	756.9	62.8	17.1	55	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	77	25.0	.....	nw.	.....	.....	1	0	9 n	.....	nw.	0	0	threatening.	W. H. Jackson.
Bogota, U. S. C.	22.01	559.1	.....	.....	54.5	12.5	85	calm	0	0	.....	.....	10n;s	.....	n.	0.799	20.3	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.98	761.5	76.0	24.4	85	calm	0	0	.....	9 cs	1 s	.....	.....	0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	29.96	761.0	29.97	761.2	79	26.1	82	se.	.....	.....	2	.....	5 k	e.	.....	0	0	.....	Dr. C. J. Herme.
Puerto Berrio, U. S. C.	29.37	746.0	29.93	760.2	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	calm	0.12	3.0	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	73.2	22.9	89	se.	.....	.....	1	5 ck	5 ks	se.	se.	0	0	cloudy	Earl Flint.
York Factory, B. A.	30.30	769.6	30.36	771.1	31.5	— 0.3	95	sw.	13	5 8	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 39° 51′, E. 25° 12′	30.04	763.0	66	18.9	89	ne.			6		10	nne.						raining.
H. M. Dockyard, Bermuda, Atlantic	30.11	764.8	77	25.0	86	ese.			1		2	ese.						d. clouds.
H. M. S. Flamingo, N. 44° 28′, W. 63° 28′	30.04	763.0	47	8.3	92	nne.			5		2	nne.				4	nne.	blue sky.
H. M. S. Iris, Alexandria, Egypt	30.04	763.0	80	26.7	70	nne.			2		0							blue sky.
H. M. S. Inflexible, N. 36° 23′, E. 22° 10′	29.98	761.5	73	22.8	81	wsw.			5		8	sw.				1	wsw.	squally.
H. M. S. Orontes, N 6° 22′, W. 14° 07′	29.99	761.7	79	26.1	100	ssw.			2		9					2	sse.	d. clouds.
H. M. S. Opal, N. 3° 55′ E. 6° 30′	29.93	760.2	79	26.1	82	w.			1		4	wnw.				sm'h		d. clouds.
H. M. S. Superb, N. 37° 56′, E. 23° 39′ *	29.99	761.7	73	22.8	95	s.			2		8	sse.				1	sse.	d. clouds.
H.P. M. S. Duoro, N. 1° 38′, E. 7° 27′	29.93	760.2	78.4	25.8	98	calm			0		10			8 h'r	8 h'r	1		showery.
U. S. Navy Yard, Portsmouth, N. H *	30.25	768.3	42	5.6	74	nne.	7	3.1			0			0.50	12.7			clear.
U. S. S. Alliance, New York, N. Y	30.30	769.6	51	10.6	86	nne.			5		5			light	light			fair
U. S. S. Jamestown, N. 31° 01′, W. 66° 06′	30.14	765.5	78	25.6	91	ese.			1		5		ese.			sm'h	e.	fair.
U. S. S. Kearsarge, Malaga, Spain	30.11	764.8	69	20.6	80	calm			0		8		calm					fair.
U. S. S. Lancaster, Malaga, Spain	30.10	764.5	68	20.0	69	e.			1		5		e			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I.			51	10.6	79	nne.			5		8		nne.			sm'h		fair.
U. S. S. Powhatan, Halifax, N. S.	30.06	763.5	45	7.2	84	n.			2		8		nne.					cloudy.
U.S. S. Quinnebaug, Leghorn, Italy	30.15	765.8	67	19.4	55	ene.			1		0							clear.
U. S. S. Saratoga, Cold Spring, N. Y.	30.29	769.4	45	7.2	100	nnw.			3–5		5		nnw.	0	0	sm'h		fair.
U. S. S. Swatara, N. 32° 55′, W. 72° 10′	30.09	764.3	77	25.0	91	ssw.			4		10		ssw.	0	0	long	ssw.	fair.
U. S. S. Vandalia, New York, N. Y†	30.27	768.8	51	10.6	72	nnw.			5		5							fair.
S. S. British Crown, N. 44° 07′, W. 58° 35′ †	29.81	757.2	60	15.6		nnw.			5		10			4 h'r	4 h'r	mod.	w.	raining.
S. S. British Prince, N. 51° 35′ W. 23° 53′*†	29.11	739.4	56	13.3		nw.			7		7		wnw.	rain	rain	r'gh	wnw.	squally.
S. S. Lord Clive, N. 39° 24′, W. 70° 41′						n.			5		8		n.	0	0	mod.	n.	cloudy.
S. S. Ohio, Liverpool, Eng †	29.64	752.8	56	13.3	87	sw.			3		3		sw.	12 h'r	12 h'r			fair.
S. S. Circassian, N. 56° 29′, W. 25° 53′	29.00	736.6	50	10.0	93	nne.			6		10		nne.			5	nne.	raining.
S. S. Nova Scotian, N. 51° 21′, W. 34° 02′			48	8.9		wnw.			4		5		nw.			high	w.	fair.
S. S. Prussian, N. 42° 02′ W. 61° 03′	30.04	763.0	58	14.4		ne.			3		0?			1 h'r	1 h'r	sm'h	wnw.	cloudy ?
S. S. Scandinavian, N. 55° 18′, W. 8° 13′	29.35	745.5	50	10.0		sse.			7		10		sse.	sh'rs	sh'rs	cross	var	overcast.
S. S. Andes, N 24° 30′, W. 74° 00′*†	30.10	764.5				ene.			3		5?		e.			mod.		clear?
S. S. Ailsa, N. 12° 50′, W. 74° 50′			84	28.9	100	e.			5		5		e.	2 h'r	2 h'r	light	e.	showery.
S. S. Assyria, N 43° 32′, W. 50° 33′	29.88	758.9	60	15.6	100	sw.			5		fg.			1 h'r	1 h'r	mod.	sw.	foggy.
S. S. Devonia, N. 53° 16′, W. 26° 13′*†	29.01	736.8	51	10.6		nw.			7		7		nw.			h'vy	wnw.	squally.
S. S. Dorian, N. 39° 38′, W. 23° 30′	30.23	767.8	66	18.9		wsw.			6		6		w.	0	c	mod.	nnw.	cloudy.
S. S. Furnesia, N. 41° 02′, W. 66° 47′†	30.08	764.0	62	16.7	83	nne.			6		10		ne.	5 h'r	5 h'r	mod.	ne.	rainy.
S. S. Carroll, N. 42° 26′, W. 70° 15′			48	8.9	92	ne.			3		6		ne.	rain	rain	short	ne.	fair.
S. S. Llandaff City, N. 42° 07′, W. 61° 58′†	30.12	765.0	60	15.6		nw.			4		10			4 h'r	4 h'r	mod.	con.	overcast.
S. S. Gallia, N. 47° 15′, W. 38° 35′	29.64	752.8	69	20.6	90	w.			6		10		w.	light	light	cf'd		
S. S. Pavonia, N. 41° 23′, W. 64° 47′			64	17.8	89	nnw.			4		8		nw.	3 h'r	3 h'r	cf'd		cloudy.
S. S. Canada, N. 43° 13′, W. 61° 49′	30.10	764.5	50.0	10		nnw.			4		s		nnw.	0	0	r'gh	ne.	covered.
S. S. Wisconsin. N 50° 28′, W. 34° 27′ *	29.61	752.1	54	12.2		ne.			1		10		nw.	4 h'r	4 h'r	high	nw.	cloudy.
S. S. Wyoming, N. 51° 15′, W. 14° 30′	29.14	740.1	48	8.9		wsw.			8		7		wsw.	4 h'r	4 h'r	hv'y	sw.	threatening.
S. S. Bohemia, N. 52° 45′, E. 3° 30′						ssw.			6		9		ssw.	0	0			overcast.
S. S. Gellert, Hamburg, Germany	29.90	759.4	52	11.1	79	ese.			4		4		s.	0	0			fair.
S. S. Silesia, N. 41° 00′, W. 66° 00′	30.08	764.0	51	10.6		n.			6		10		n.			mod.	n.	overcast.
S. S. Westphalia, N. 50° 05′, W. 19° 23′			55	12.8	93	wnw.			var.		8		wnw.	5 h'r	5 h'r	r'gh	wnw.	squally.
S. S. Nessmore, N. 49° 09′, W. 21° 22′	29.22	742.2	58	14.4	94	w.			9		8		wnw.	3 h'r	3 h'r	h'vy	wnw.	cloudy.
S. S. Bulgarian, N. 51° 01′, W. 27° 36′*	29.43	747.5				wnw.			8		10		wnw.	4 h'r	4 h'r	high	nnw.	gale.
S. S. Archimedes, N. 42° 55′, W. 9° 24′	30.14	765.5				s.			4		5?		ssw.	1 h'r	1 h'r			cloudy?
S. S. Hevelius, Liverpool, Eng†	29.51?	749.5?	58	14.4		wnw.			6				nw.	5 h'r	5 h'r			clear.
S. S. Rosse, N. 31° 19′, W. 17° 35′ *	30.18	766.6	73	22.8		n.			4				wnw.	0	0	light	n	clear.
S. S. Rio Grande, New York, N. Y	30.29	769.4	44	6.7		n.			6		1		n.	0	0			clear.
S. S. Lampassas, N. 31° 17′ W. 78° 20′*†	30.10	764.5	80	26.7		ne.			7		7		ne.	2 h'r	2 h'r	rg'h	ne.	cloudy.
S. S. Chalmette, N. 35° 20′, W. 75° 24′ †	30.01	762.2	70	21.1		n.			6		10		n.	2 h'r	2 h'r	long	n.	cloudy.
S. S. Lone Star, N. 25° 15′, W. 80° 05′ *†	30.00	762.0	83	28.3		e.			3		5		e.	0	0	small	e.	fair
S. S. Alleghany, Long Island, N. Y†.	30.29	769.4	58	14.4		ne.			4		6		ne.	0	0	long	e.	cloudy.
S. S. Archimede, New York, N. Y	30.27	768.8	66	18.9		ne.			5		3		nne.	0	0			clear.
S. S. City of Washington, N. 30° 58′, W 80° 20′*†	30.10	764.5	83	28.3		calm			0		0			0	0	sm'h		clear.
S. S. Cienfuegos, N. 24° —′, W. 75° —′			83	28.3		e.			3		3		e.	1 h'r	1 h'r	gentle	e.	fine.
S. S. Denmark, London, Eng			65	18.3		wsw.			5		8		wsw.	10 h'r	10 h'r			fair.
S. S. Egypt, N. 49° 41′, W. 32° 38′	29.65	753.1	54	12.2		w.			5		10		sw.	4 h'r	4 h'r	h'vy	w.	cloudy.
S. S. Grecian, N. 56° 41′, W. 26° 04′			48	8.9	92	nne.			5		9		ne.	9 h'r	9 h'r	high	ne.	cloudy.
S. S. England, Staten Island, N Y						n.			5		2		n.	sh'rs	sh'rs	sm'h		clear.
S. S. Erin, N. 50° 22′, W. 2° 41′			49	9.4		wsw.			7		6		wsw.	5 h'r	5 h'r	r'gh	wsw.	fair.
S. S. Greece, N. 49° 55′. W. 5° 03′			58	14.4	88	sw.			8		10		wsw.	4 h'r	4 h'r	h'vy	var.	overcast.
S. S. Holland, N. 47° 12′, W. 64° 53′	30.06	763.5	60	15.6		n.			6		10		wnw	4 h'r	4 h'r	mod.	nw.	raining.
S. S. Elbe, N. 50° 24′ W. 31° 23′	29.55	750.5	50.9	10.5	81	wnw.			5–6		10		wnw.	3 h'r	3 h'r	high	wnw.	squally.
S. S. Habsburg, N. 40° 33′, W. 67° 58′	30.09	764.3				n.			5		10		n	5 h'r	5 h'r	long	n.	cloudy.
S. S. Orinoco, New York, N. Y†	30.35	770.9	58	14.4		ne.			5		1			0	0			clear
S. S. Neckar, N. 48° 00′, W. 44° 00′	29.48	748.8	56.0	13.3	100	e.			5–7		8		w.			r'gh	var.	light rain.
S. S. Oder, N. 51° 10′, E. 1° 32′	29.81	757.2	56.3	13.5		wsw.			3		4		wsw.	0	0	mod	s.	fair.
S. S. Ohio, N. 34° 56′, W. 54° 52′	30.35	770.9				sw.			3		6		wsw.	1 h'r	1 h'r	sm'h	sw.	fair.
S. S. Rhein, N. 49° 43′ W. 12° 32′*†	29.33	745.0				wsw.			6		8		wsw.	1 h'r	1 h'r	cross	sw.	cloudy.
S. S. Salier, N. 41° 57′, W. 63° 02′			55.4	13.0		n.			5		10		n.	2 h'r	2 h'r	light	wsw.	raining.
S. S. Strassburg, N. 40° 40′, W. 62° 49′	30.02	762.5	69.5	20.8	92	wsw.			3–4		10		wsw.	7 h'r	7 h'r	3	var.	light rain.
S. S. City of Augusta, N. 34° 58′, W. 75° 16′						n.			9		10		nne.			h'vy		cloudy.
S. S. Muriel, N. 24° 00′, W. 66° 07′			81	27.2		e.			3		0			0	0	long	ne.	clear
S. S. Belgenland, N. 40° 20′, W. 68° 00′†	30.12	765.0	63	17.2	89	n.			6		10		n.	1 h'r	1 h'r	mod.	n.	overcast.
S. S. Rhynland, Antwerp, Belgium	29.84	757.9	56	13.3		s.			3		4		s.	0	0			fair.
S. S. Pennland, N. 49° 43′, W. 15° —′			53	11.7	86	w.			9		8?		nw.	8 s'r	8 h'r	h'vy	w.	clear?
S. S. Vaderland, N. 40° 16′, W. 66° 10′	30.07	763.8	66	18.9		n			5		10		n.	4 h'r	4 h'r	mod.	w.	overcast.
S.S. Waesland, N. 43° 34′, W. 54° 50′	29.89	759.2	63	17.2		w.			6		fg			21 h'r	21 h'r	r'gh	w.	foggy.
S. S. Leerdam, N. 48° 20′, W. 41° 28′ *	29.48	748.8	58.6	14.[illegible]	94	sw			6–7		10		nw.	7½h'r	7½h'r	7	nw.	stormy.
S. S. Zaandam, N. 43° 49′ W. 50° —′	29.91	759.7	64.0	17.8	92	wsw.			5		10		wnw.	8 h'r	8 h'r	high	wsw.	rain & fog.
S. S. Caracas, N. 23° 13′, W. 68° 50′ *†	30.10	764.5	82.5	28.1	81	e.			5		5		e.	½ h'r	½ h'r	mod	ese.	squally.
S. S. W. A. Scholten, New York, N. Y	30.27	768.8	60.1	15.6	75	ne.			2		5		n.	0	0			
S. S. Valencia, N. 22° 35′, W. 68° 48′*†	30.04	763.0	83.5	28.6	75	e.			3		5		ne.	2 h'r	2 h'r	long	ene.	fair.
S. S. State of Indiana, N. 43° 30′, W. 58° 30′*†	29.80	756.9	57	13.9		n.			2		8		nw.	8 h'r	8 h'r	sm'h		cloudy.
S. S. State of Nebraska, N. 45° 10′ W. 52° 11′ *†	29.78	756.4	59	15.0		wsw.			4		10		w.			sm'h		drizzling.
S. S. Thingvalla, N. 40° 35′, W. 68° 48′			52.7	11.5		nnw.			3		7		nnw.	5 h'r	5 h'r	cross	nnw.	fair
S. S. Otranto, N. 42° 17′, W. 62° 44′	30.11	764.8	59	15.0		n.			5		10		n.	2 h'r	2 h'r	cross	sw.	light rain.
S. S. Romano, off Long Island, N Y			60	15.6		n.			6		6		n.			r'gh	nne.	
S. S. Salerno, N. 49° 55′, W. 32° 00′*†	29.58	751.3	48	8.9		w			7		8		w.	0.5	13.	hv'y	wsw.	raining.
S. S. Ontario, N. 56° 08′, W. 24° 00′	28.92	734.6	50	10.0		n.			6		10		var.	3 h'r	3 h'r	cross	var.	overcast.
S. S. Dominion, N. 55° 08′, W. 9° 06′*†	29.38	746.2	51	10.6		sse.			4		8		sse.			mod.	sse.	cloudy.
S. S. Quebec, N. 47° 13′, W. 70° 21′	30.29	769.4	42	5.6		nne.			3		5		nne.	10 h'r	10 h'r	sm'h		fair.
S. S. Lake Huron, N. 56° 13′, W. 28° 52′	29.13	739.9	44	6.7		nw.			6		1		nw.	4 h'r	4 h'r	high	var.	clear
S. S. Lake Manitoba, N. 54° —′, W. 44° 10′	29.52	749.8	41	5.0		n.			2–5		10			2 h'r	2 h'r	h'vy	var.	overcast.
S. S. Daniel Steinmann, Boston, Mass. †	30.25	768.3	60	15.6		n.			5		2		nnw.	2 h'r	2 h'r			fair.
S. S. Britannic, N. 50° 34′ W. 29° 40′†	29.52	749.8	47	8.3		nnw.			5		7		w.	0	0	high	w.	squally.
S. S. Celtic, English Channel†	29.72	754.9	60	15.6		s.			5		8		s.	sh'rs	sh'rs	sm'h		squally.
S. S. Germanic, N 40° 36′, W. 66° 06′ *†	30.10	764.5	64	17.8		nnw.			5		10		wnw.	3 h'r	3 h'r	short	s.	gloomy.
Bk. Arda, N. 23° 05′, W. 38° 19′						se.			2		4		se.	sh'rs	sh'rs	mod.	s.	clear.
Bk. Ariadne, N. 59° 31′, W. 4° 12′			51	10.6	100	sw.			2		7		w.	2 h'r	2 h'r	high	wsw.	fair.
Bg. Abbie Clifford, N. 17° 30′, W. 59° 37′†	30.05	763.3	83	28.3		ese.			4		4		ese.	0	0	mod.	var.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, Charleston, S. C.†	30.13	765.3				nw.			1		0			0	0	sm'h		clear.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.35	770.9	64	17.8		n.			3									clear.
S. S. Antonio Lopez, Cadiz, Spain *	30.09	764.3	66.5	19.2	74	nw.			1	7 0				0	0			fair.
Schr. Adda Doane, N. 8° 46′, W. 56° 52′*†	29.95	760.7				e.			3		4		e	1 h'r	1 h'r	mod.	e.	fair.
Bg. Belle of the Bay, N. 27° 57′, W. 91° 59′						ene.			4		7		s.	sprin	kles.	sm'h	sw.	threatening.
S. S. Benledi, N. 36° —′, W. 5° 30′*.	30.08	764.0	72	22.2	76	e.			1–2		8		calm	0	0	sm'h		cloudy.
S. S. Burswell, N. 37° 15′, E. 9° 04′ *†	30.14	765.5	81	27.2		nnw.			2		3		calm	0	0	sm'h		clear.
Bk. Ceylon, N. 7° 22′. W. 29° 34′†	29.93	760.2	84	28.9	91	calm			0		8			2 h'r	2 h'r	sm'h		rainy.
Schr. Clotilde, N. 25° 26′, W. 78° 27′†	30.06	763.5	81	27.2		ene.			3		2		e.	0	0	sm'h		clear.
Schr. C. R. Flint, Demerara, British Guiana†	30.00	762.0	83	28.3							4		ene.	0	0			fair.
Bk. Damant, N. 50° 18′, W. 2° 05′	29.85?	758.2?	55.2	12.9	75	sw.			6		6		sw.	0	0	4	sw.	fair.
S. Dynomene, N. 7° 49′, W. 23° 06′	29.95	760.7	81	27.2	87	sse.			2		4			light	light	mod.	sse.	d. clouds.
S. E. J. Spicer, N. 42° 42′, W. 41° 10′	30.07	763.8	69	20.6	95	wsw.			7		7		w.	0	0	long	var.	fair.
Bk. E. D. Bigelow, Galveston, Texas†	30.06	763.5	79	26.1		ne.			4		2		ene.	1 h'r	1 h'r			fair.
S. Festina Lente, N. 51° 14′, W. 29° 52′	29.50	749.3	49	9.4		wnw.			4		9		wnw.	6 h'r	6 h'r	mod.	var.	cloudy.
U. S. Fish Com. S. S. Fish Hawk, Woods Holl, Mass†	30.18	766.6	50	10.0	79	n.			5		8		n.	0.97	24.6	sm'h		cloudy.
S. Gatherer, Waterloo, Eng.*	29.66	753.4	58	14.4	81	wnw.			6		7		nw.	0	0	chop		cloudy.
Bg. George, N. 39° 02′, W. 72° 30′*†	30.19	766.8	59	15.0		ne.			4		10		ne.	2 h'r	2 h'r	r'gh	nne.	cloudy.
Bk. Galeon, N. 21° 27′, W. 58° 16′†	30.05	763.3	81	27.2		e.			4		6		e.	0	0	long	ne	
Bk. Hattie G. McFarland, N. 37° 50′, W. 71° 57′†	30.15	765.8	64	17.8		nne.			7		10		ne.	0	0	r'gh	nne.	
S. Hedwig, N. 23° 27′ W. 64° 55′	30.08	764.0	82.0	27.8	81	ene.			5		6		var.	2 h'r	2 h'r	3	ne.	light rain.
Bk. Heinrich & Tonio, N. 47° 50′, W. 14° 45′†	29.47	748.5	59	15.0		w.			6		5		w.	8 h'r	8 h'r		var.	clearing.
Schr. Isabel Alberto, N. 25° 04′, W. 79° 54′						e.			4		8		e.	h'vy	h'vy	mod.	n.	squally.
Bk. Ibis, New York, N. Y.*	30.33	770.4	60	15.6		nw.			8		6		nw.	0	0			
Schr. Jennie N. Huddell, Wilmington, N. C.†	30.13	765.3	73	22.8	81	n.			1		0			0	0			clear.
Bk. John H. Pearson, N. 32° 15′, W. 15° 13′						nne.			3				nne.	0	0	long	n.	cloudy.
Schr. John Bracewell, East River, N. Y.						nne.			3		4		nw.	0	0			fair.
Bg. Josefa, Little Glace Bay, N. S.†	29.99	761.7				n.			7		8		n.	4 h'r	4 h'r			clearing.
Bk. Lady Hincks, N. 41° 38′, W. 68° 50′ *†	30.20	767.1												0	0			clear.
Bg. Lilian, N. 31° 42′, W. 72° 40′ †	30.15	765.8	79	26.1		ssw.			4		2		sw.	0	0	mod.	var.	fair.
S. S. Madrid, Constantinople, Turkey †	30.16	766.1	71	21.7	85	e.			8		7		e.	0	0			fair.
Bk. Matilda C. Smith, N. 47° 14′, W. 18° 00′*†	29.55	750.6				w.			7		6		w.	24 h'r	24 h'r	hv'y	wnw.	threatening.
Bk. Matthias, N. 38° 02′, W. 46° 23′ *†	30.28	769.1	75.0	23.9		sw.			2					0	0	2	var.	fair.
Schr. Norena, N. 33° 30′, W. 65° 00′						s.			1		0			0	0	long	wsw.	fine.
Bk. National Eagle, N. 36° 43′, E. 12° 03′						nw.			6		8		nw.	6 h'r	6 h'r	mod.	nw.	cloudy.
S. S. Radnorshire, N. 33° 06′, E. 27° 14′						se.			1		5		se.	0	0	mod.	se.	fair.
Schr. Rollin Sanford, Milton, Florida†	30.14	765.5				w.			2					0	0			foggy.
Bg. Rising Sun, Barbadoes, W. I †	30.01	762.2	82	27.8		e.			4		10		e.	h'vy	h'vy			squally.
Bk. Rosalie, N. 7° 49′, W. 26° 50′*†	29.93	760.2				s.			2		4		s.	7 h'r	7 h'r	light	s.	showery.
Bk. Saga, N. 52° 43′, E. 3° 00′*†	29.64	752.9	60	15.6		sw.			6		7		ssw.	8 h'r	8 h'r	r'gh	ssw.	fair.
S. Salisbury, N. 36° 07′, W. 9° 08′	30.09	764.2	64.2	17.9	85	nne.			5	5 ck	0			½h'r	½h'r	long	var.	fair.
Bk. Samuel B. Hale, N. 32° 39′, W. 31° 53′*†	30.32	770.1				ese.			4				ese.	0	0	high	n.	clear.
Bk. Sunbeam, N. 49° 33′, W. 5° 59′ †.	29.73	755.1	57	13.9	88	sw.			7		9		wsw.	1 h'r	1 h'r	r'gh	wsw.	cloudy.
S. St. Francis, N. 35° 20′, W. 40° 41′			72	22.2		ssw.			2		2		s.	0	0	mod.	nne.	fair.
Bk. Southern Belle, off Gibraltar, Med						e.			4									
Schr. Walter L. Plummer, N. 24° 19′, W. 39° 58′*†	30.10	764.5				ese.			3		10		se			sm'h	se.	rainy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 31° 48′, W. 49° 55′	30.11	764.8	69	20.6	77	nne.			5		7	nne.				3	ne.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.94	760.5	68	20.0	95	ese.			3		0							blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.06	763.5	66	18.9	77	nne.			3–5		1	calm						squally.
H. M. S. Tyne, S. 31° 55′, E. 13° 55′	30.08	764.0	60	15.6	76	se.			3		8	s.				2	ssw.	d. clouds.
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.91	759.7	78.4	25.8	77	wsw.			3		7		wsw.	0	0	1		d. clouds.
U. S. S. Brooklyn, S. 37° 02′, W. 21° 13′*	30.12	765.0	55	12.8	93	ese.	14	6.3			10		se.	0	0	mod.	se.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	29.95	760.7	65	18.3	83	ne.			3		2					sm'h		clear.
S. S. Tenlers, S. 32° 32′ W. 50° 50′	30.13	765.3	68.5	20.3	78	ne.			6		2 k			0	0	4	ne.	blue sky.
S. S. Sirius, S. 21° 30′, W. 40° 10′	30.11	764.8				ese.			3		8		se.	0	0	long	ese.	cloudy.
Bk Alpheus Marshall, S. 4° 23′, W. 23° 28′*†	29.89	759.2	78	25.6	91	ese.			3		5		ese.	0	0	mod.	se.	fair.
Bk. Aureola, Rio de Janeiro, Brazil †	30.06	763.5	82	27.8		se.			3		5		se.	0	0			fair.
Bk. Adelaide, S. 17° 01′, W. 36° 35′*†	30.11	764.8	77	25.0		se.			6		5		sse.	7 h'r	7 h'r	r'gh	sse.	fair.
S. David Crockett, S. 33° 44′, W. 29° 04′*	30.13	765.3	60.5	15.8	65	ese.			5		6		ese.	0	0	mod.	se.	d. clouds.
Bk. E. L. Pettingill, S. 53° 39′, W. 66° 03′*†	29.25	742.9	52	11.1		nw.			6		0			0	0	mod.	n.	clear.
Bk. Grey Eagle, S. 20° 57′, W. 37° 45′*†	29.95	760.7				sse.			6		4		se.	1 h'r	1 h'r	h'vy	se.	fair.
Bg. John Wesley, Natal, Brazil *†	29.88	758.9	81	27.2		ene.			2		4		e.	0	0			fair.
Bkt. Louise Adelaide, Buenos Ayres, La Plata †	30.15	765.8				nnw.			3		0			0	0			clear.
S. S. Mendoza, S. 14° 40′, W. 32° 04′ †	30.05	763.3				calm			0		0			0	0	sm'h	ene.	
Bk. Mohican, S. 39 40′, E. 9° 20′	29.70	754.4	56.5	13.6		sse.			4		10			24 h'r	24 h'r	mod.	ne.	foggy.
Bk. Pilgrim, S. 4° 45′, W. 24° 30′ *†	30.00	762.0				e.			3		1		e.	0	0	mod.	e.	clear.
Bgt. Willie, Montevideo, Uruguay *†	30.02	762.5	66	18.9		ne.			5		0			0	0	sm'h		clear
Bk. Childwall, S. 19° 05′, W. 32° 50′	29.96	761.0	72	22.2		sse.			5		7		se.	0	0	light	se.	cloudy.
Bk. Achille F, S. 15° —′, W. 33° 45′ †	30.00	762.0	74	23.3		se.			5		8		s.	2 h'r	2 h'r		sse.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.09?	764.3?	66	18.9	94	nw.			2		10	n.						raining.
H. M. S. Champion, Singapore, Malay Peninsula	29.92	760.0	82	27.8	87	nnw.			2		3	ne.						blue sky
H. M. S. Flying Fish, N. 32° 45′, E. 129° 52′	30.06	763.5	69.5	20.8	82	calm			0		0							blue sky.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.11	764.8	74	23.3		e.			1		5							d. clouds.
H. P. M. S. Tamega, Canton, China	30.07	763.7	81.5	27.5	81	s.			2		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.22?	767.6?	61.5	16.4	100	nw.			3		10		n.	0.32	8.1			raining.
U. S. S. Essex, Nagasaki, Japan	30.07	763.8	71	21.7	95	ne.			1		2							clear.
U. S. S. Hartford, Corinto, Nicaragua*	29.86	758.4	77	25.0	95	e.			2		8			0	0			cloudy.
U. S. S. Juniata, Canton, China	30.07	763.8	82	27.8	87	se.			1		2			0	0			clear.
U. S. S. Monocacy, Ross Island, Corea	30.13	765.3	68	20.0	84	w.			2		8		sw.					fair.
U. S. S. Pensacola, Yokohama, Japan*			64	17.8	100	nw.			5		10			light	light			cloudy.
U. S. S. Ranger, Mare Island, Cal	29.91	759.7	55	12.8	81	wsw.			1		10			0	0			overcast.
U. S. S. Richmond, Yokohama, Japan	30.16	766.1	64	17.8	100	nnw.			3		10			0.50	12.7			raining.
S. S. Oceanic, N. 36° 54′, E. 153° 39′	30.38	771.6	68	20.0	89	var.			3		4		se.	0	0	4	ne.	fair.
S. S. Oregon, San Francisco, Cal †	29.91	759.7	54	12.2	94	calm			0		10		nnw.					cloudy.
S. S. Orizaba, N. 34° 52′, W. 120° 43′ *†	29.92	760.0	58	14.4	82	w.			1		10		wsw.	0	0	sm'h	wnw.	cloudy.
S. S. State of California, Portland, Oregon †	30.11	764.8	39	3.9		n.			1		10							foggy.
S. S. Victoria, off Trinidad, Cal.†	29.88	758.9	51	10.6	88	ne.			6		0					high	n.	fair.
S. S. City of Pekin, N. 26° 32′, E. 122° 53′†	30.18	766.6	74	23.3	72	ene.			4		0			0	0	sm'h		clear.
S. S. City of Tokio, N. 41° 01′, W. 158° 28′			58	14.4	75	ne.			3		10		ne.	0	0	small	se.	cloudy.
S. S. Colima, San Jose, Guatemala†	29.99	761.7	76	24.4	86	wnw.			3		10		w.	0	0	mod.	se.	overcast.
S. S. Grenada, N. 24° 00′, W. 111° 37′ †	29.92	760.9	81	27.2	83	calm			0		0			0	0	mod.	w.	clear.
S. S. San Blas, N. 8° 40′, W. 84° 43′ †	29.91	759.7	72	22.2		wsw.			6		10		sw.	19 h'r	19h'r	rg'h		overcast.
S. Parker M. Whitmore, N. 35° 12′, W. 124° 00′*†	29.90	759.4	55	12.8		nw.			3		10		w.	0	0	long	nw.	cloudy.
S. S. Strathleven, N. 25° 05′, E. 119° 58′	30.13	765.3	78.5	25.8	76	ne.			4		6		nne.	0	0	3	ne.	d. clouds.
U. S. S. Palos, Hong Kong, China	30.16	766.1	76	24.4	86	s.			1		2		calm					clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.96	761.0	80.3	26.8	87	calm			0		10					sm'h		misty.
H. M. S. Magpie, S. 6° 05′, E. 106° 48′	29.90	759.4	83.5	28.6	79	n.			1		0					1	n.	misty.
H. M. S. Mutine, S. 27° 46′, W. 71° 41′	30.08	764.0	57	13.9		s.			1		10					1	s.	drizzling.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
H. M. S. Nelson, Sydney, N. S. W	29.97	761.2	55	12.8	87	sw.			2		6	sw.						d. clouds.
U. S. S. Iroquois, Callao, Peru	30.00	762.0	62	16.7	88	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	29.99	761.7	58	14.4	76	calm			0		10							overcast.
U. S. S. Onward. Callao, Peru *†	30.11	764.8	62	16.7	88	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili*	30.06	763.5	57	13.9	94	nnw.			1		10		calm			sm'h		overcast.
S. S. Australia, Sydney, N. S W	29.93	760.2	67	19.4	94	ne.			4		4		nnw.	8 h'r	8 h'r			clear.
S. S. City of New York, S. 35° 05′, E. 176° 06′†	30.18	766.6	59	15.0	88	ssw.			5		10		ssw.	3 h'r	3 h'r	h'vy	sw.	squally.
S. S. City of Sydney, S. 10° 40′, W. 169° 22′ *†	29.88	758.9	82	27.8	67	e.			2	2 cs		e.				light	ene.	clear.
S. E. B. Sutton, S. 1° 30′, W. 127° 00′*†	29.98	761.5	75	23.9	90	ese.			3		2		se.	0	0	mod.	var.	clear.
S. Sovereign of the Seas, S. 3° 03′, W. 110° 54′*†	30.14	765.5	75	23.9	86	ese.			3		4		se.	0	0	mod.	sse.	fair.
S. Armenia, S. 35° 10′, W. 121° 35′*	30.32	770.1	57	13.9	87	ene.			4		7			0	0	mod.	s	cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.06	763.5	66	18.9		se.			3		10		se.			long	se.	overcast.
S. Storm King, S. 8° 45′, W. 123° 35′*†	30.04	763.0				ese.			4		3		ese.	¼ hr	¼ h'r	h'vy	s.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.93	760.2	80	26.7	82	ese.			2		3	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.92	760.0	80	26.7	91	ese.			3		2	sse.				2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab River, Turkey	30.02	762.5	92.5	33.6	45	nw.			2		2	nnw.						blue sky.
Bk. Bore, S. 35° 11′ E. 22° 51′*†	30.37	771.4	70	21.1		e.			2		0			0	0	sm'h	s.	clear.
S. Frank N. Thayer, S. 32° 32′, E. 32° 30′*†	30.16	766.1	68	20.0	74	ese.			1		0			0	0	sm'h		blue sky.
Bk. Great Surgeon, S. 36° 27′, E. 85° 51′ *†	29.94	760.5	58	14.4		nw.			6		10		w.	½ h'r	½ h'r	r'gh	sw.	misty.
S. S. Galatia, N. 9° 15′, E. 72° 01′†	29.76	755.9	80	26.7	96	sw.			5		6		sw.	8 h'r	8 h'r	r'gh	wsw.	stormy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 16, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.1	69.4	20.8	82	se.			1		0			0	0	clear	Roziere.
Algiers			30.11	764.9	72.0	22.2	51	w.			6		4			0	0	cloudy	Thève.
La Galle			30.11	764.8	70.9	21.6	62	ne.			1		2			0	0	fair	Fonfrède.
Tunis			30.17	766.3	69.8	21.0	52	e.			2		1			0	0	very fair	Delord.
Saida			30.16	766.1															Pérès.
Tebessa			30.20	767.1	60.8	16.0	69	se.					3			0	0	pretty fair	St. Martin.
Geriville					68.4	20.2	31	nw.			2		3			inap.	inap.	pretty fair	Forfert.
Laghouat			30.23	767.8	73.0	22.8	38	ssw.			3		0			0	0	clear	Abraham.
Biskra			30.18	766.6	77.0	25.0	20	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.81	757.2	68.7	20.4	48	nnw.	3	1.3			10 ks		nnw.	0	0	threatening	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.75	755.6	29.84	757.9	58.0	14.4	80	se.	4	1.8			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.65	753.2	30.21	767.2	55.8	13.2	74	ne.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.44	747.8	30.21	767.2	61.2	16.2	67	ne.	2.5	1.1			8			0	0		Dr. Wierzbiski
Eperies	29.39	746.6	30.27	768.9	57.9	14.4	48	s.			1	9 cs				0	0		Julius Mikolik.
Gratz	28.94	735.1	30.21	767.2	52.2	11.2	90	se.			1		10			0.669	17.0		Andreas Rospini.
Hermannstadt	28.87	733.3	30.32	770.2	54.5	12.5	89	se.			1		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.70	728.9	30.03	762.8	55.8	13.1	89	ne.			1		3			0	0	fair	The Staff.
Lemberg	29.33	745.0	30.33	770.4	51.6	10.9	50	s.			5		6			0	0		Dr. T. Stanecki.
Pola	30.02	762.5	30.13	765.3	63.3	17.4	76	wnw.			3		6			0	0		I. R. Hydrographic Office.
Szathmar	29.80	756.8	30.26	768.6	58.8	14.9	44	s.			3		4			0	0		Joseph Midlinszky, S. J
Szegedin																			Karl Stancel.
Trieste	30.08	764.0	30.18	766.5	67.3	19.6	60	w.			1		6			0	0		Royal Academy.
Vienna	29.47	748.6	30.20	767.0	51.3	10.7	85	se.			4		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	28.75	730.2	28.85	732.8	49.0	9.4	78	s.	26	11.6			7			0.020	0.5	showery	W. Boswell.
Armagh, Observatory	28.75	730.2	28.99	736.3	48.3	9.1	89	s.	15	6.7			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.16	740.7	53.8	12.1	69	ssw.	21	9.4			10					overcast	John Hartnup.
Bolton, Sharples	28.64	727.4	29.16	740.7	51.3	10.7	76	ssw.	18	8.0			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	28 78	731.0	29.18	741.2	52.7	11.5	68	sw.			3		6			0.51	13.0	d. clouds	McLandsborough & Preston.
Cardington	29.27	743.4	29.38	746.2	56.4	13.6	81	sw.			7.0		4					d. clouds	John McLaren.
Chatham, School M. E.	29.27	743.4	29.44	747.8	58.5	14.7	73	sw.			4		7			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.23	742.4	29.45	748.0	57.1	13.9	79	sw.			5		7					d. clouds	The Staff.
Fort Napier, Natal	27.70	703 6	29.82	757.4	86.0	30.0	30	ne.			1							blue sky	C. Stares, A.H.O.
Freetown, Sierra Leone	29.78	756.4	30.01	762.2	80	26.7	96	e.			6		5					raining	J. W. Smith.
Galway, Queen's College	28.98	736.1	29.01	736.8	54	12.2	87	sw.			5		8			0.48	12.2	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.13	765.3	30.19	766 8	70.0	21.1	95	e.			1		0					blue sky	Sgt. F. Norris, A.H.O.
Glasgow, Observatory	28.72	729.5	28.93	734.8	46.2	7.9	90	wsw.			4		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.25	742.9	29.42	747.3	58.7	14.8	68	ssw.			6		9					d. clouds	The Staff.
Guernsey	29.26	743.2	29.56	750.8	58.0	14.4	79	sw.			5		8					d. clouds	A. Collenette, F. M. S
Kew, Observatory	29.38	746.2	29.42	747.3	59.1	15.1	69	sw.	28	12.5			8					d. clouds	The Staff.
Leicester, Museum	29.03	737.3	29.28	743.7	53.0	11.7	93	sw.			3		10					raining	J. C. Smith.
Malta, Mediterranean	30.06	763.5	30.14	765.5	72.6	22.6	72	ne.			2		4			0	0	d. clouds	Corpl. Keene, A. H. O.
Nassau, Bahamas	30.02	762 5	30.06	763.5	81.5	27.5	77	e.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.77	730 7	29.30	744.2	54.4	12.4	87	ssw.			4		9					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.13	739.9	29.36	745.7	58.0	14.4	74	ssw.			6		9					overcast	The Staff.
Plymouth	29.36	745.7	29.43	747.5	58.0	14.4	87	sw.			6		9					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	28.70	729.0	28.80	731.5	50.8	10.4	88						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.02	762.5	30.08	764.0	66.6	19.2	75	ne.			2		9					showery	W. H. Lyne.
Sheffield	29.13	739.9	29.40	746.7	55.8?	13.2?		sw.			3		1			0.44	11.2	blue sky	W. F. Cooper.
Silloth Rectory	29.01	736.8	29.04	737.6	54.1	12.3	74	sw.			6		2			0.230	5.8	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.18	741.2	52.9	11.6	56	sw.	23	10.3			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					58.1	14.5	82	sw.			1.5		6					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.40	746 7	29 48	748.8	60	15.0	82	sw.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.23	742.4	29.25	742.9	54.4	12.4	77	wsw.	26	11.6			10					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.82	757.4	30.21	767 3	70.2	21.2	62	Le.	0.6	0.3		0	6 n		ne.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.57	776.5	30.61	777.5	32.0	0.0		calm	0	0		0	0			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.41	772.4	30.45	773.4	38	3.3	59	nnw.	11	4.9			10 n			0.050	1.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.49	774.4	30.55	776.0	29	— 1.7	96	nw.	10	4.5		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.50	774.7	30.71	780.0	23.3	— 4.8	100	n.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.48	774.2	30.53	775.4	32.5	0.3		w.			1	0	0			0	0	blue sky	H A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.57	776.5	30.60	777.2	34	1.1	64	nnw.	15	6.7		0	8 k		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.43	747.5	30.30	769.6	34	1.1	100	se.	10	4.5		0	8 ks		w.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.53	775.4	30.60	777.2	31.0	— 0.6	79	nw.	5	2.2		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.51	774.9	30.57	776.5	35	1.7	89	n.	16	7.2		5 k	0		n.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.59	751.6	30.78	781.8	27.0	— 2.8	100	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.35	770.9	30.49	774.4	35	1.7	45	w.	7	3.1		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	30.30	769 6	30.71	780.0	32.9	0.5	86	nw.			1	2 c	0		nw.	0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.41	772.4	30.77	781.5	29	— 1.7	88	n.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A
Little Glace Bay, N. S	30.32	770.1	30.36	771.1	42.0	5.6	93	n.			6	8	k		n.	0	0		C. H. Rigby.
London, Ontario	29.77	756.1	30.74	780.8	26.3	— 3.2	94	calm			0	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.62	701.5	29.93	760.2	38	3.3	92	e.	5	2.2			10 s			0	0	cloudy	John Ewart.
Minnedosa, N. W. T	28.21	716 5	30.17	766.3	34	1.1	92	e.	12	5.4			fg			0.10	2.5	dense fog	Rev. J. M. Wellwood.
Montreal, Quebec*	30.50	774.7	30.72	780.3	32	0.0	68	n.	5	2.2		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.51	774 9	30.75	781 0	23.8	— 4.6	97	nw.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	30.03	762.7	30.79	782.1	23	— 5.0	84	e.	5	2.2		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.97	761.2	30.76	781.3	31.7	— 0.2	66	n.			1	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.83	757.7	30.56	776 2	40	4.4	92	n.	2	0.9			10 s			0.03	0.8	light rain	W. P. Cooke.
Port Dover, Ontario	29.97	761.2	30.71	780 0	33	0.6	89	ne.	9	4.0		0	0			0	0	clear	G. Morgan
Port Stanley, Ontario	29.99	761.7	30.68	779.3	31	— 0.6	78	ne.	10	4.5		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.71	703.8	30.02	762.5	35	1.7	92	se.	6	2.7			10 s		sw.	0	0	foggy	Leslie Gordon.
Quebec, Quebec*	30.23	767.8	30.61	777.5	30	— 1.1	100	w.	10	4.5		2 k	0	w.		0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	30.28	769.1	30.78	781.8	23	— 5.0	88	nw.	6	2.7		0	fg.			0	0	foggy	W. H. McIntyre.
St. Andrews, N. B	30.52	775.2	30.57	776.5	32	0.0	79	nw.	4	1.8		0	0			0	0	clear	
St. John, N. B	30.42	772.7	30.57	776.5	31.4	— 0.3	84	nw.	8	3.6		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.87	758.7	30.13	765.3	36	2.2	80	ne.			2	0	0			0.04	1.0	clear	J. Higgins.
St. Pierre, N. F			30.20	767.0	40.3	4.6		n.			7					0.169	4.3		The Commandant.
Saugeen, Ontario*	29.97	761.2	30.74	780.8	25	— 3.9	88	n.	2	0.9		0	0			0	0	clear	
Stratford, Ontario	29.37	746.0	30.75	781.0	25.0	— 3.9	90	ne.	1.5	0.7		0	0			0	0	blue sky	O. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN—Continued.																			
S. W. Point, Anticosti	30.37	771.4	30.40	772.1	35	1.7	79	nw.			4	0	0			0	0	clear	
Sydney, C. B.	30.30	769.6	30.36	771.1	38	3.3	55	nw.	16	7.2		0	2 k			0	0	clear	Miss Grace Pope.
Toronto, Ontario*	30.36	771.1	30.77	781.5	31	— 0.6	74	ne.	8	3.6		0	2 ks			0	0	clear	A. C. Hill, C. E.
Woodstock, Ontario	29.48	748.8	30.62	777.7	27.7	— 2.4	95	n.	6	2.7		0	0			0	0	blue sky	Magnetic Observatory.
Yarmouth, N. S*	30.47	773.9	30.54	775.7	34	1.1	82	n.	3	1.3		0	0			0	0	clear	Prof. N Wolverton, M.A.
CAPE COLONY.																			Lt. F. E. Wilmot, R. N.
Cape St. Francis Lt.House	29.88	758.9	29.91	759.8	65.5	18.6	78	sw.	15.1	6.8		0	8 n			0	0	cloudy	
Cape Town	29.85	758.2			66.8	19.3	74					8 ck	n			0	0		I. Garfelt.
Springbok Fontein	27.86	707.6			78	25.6	34									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	30.04	763.0	30.12	765.0	55.0	12.8	87	e.			1	0						clear	Samuel Redolez.
Iquique	30.03	762.7	30.06	763.4	63.1	17.3	70	sw.			3							cloudy	Rafael Moreno.
Niebla	29.47	748.6	29.58	751.3	50.4	10.2	89	nw.			4	0	5		nw.	0.953	24.2	raining	Federico Köhling.
Punta Caldera	29.99	761.7	30.08	763.9	56.1	13.4	84	ne.			1	8 c	s	ne.	ne.			fair	Manuel Tobar.
Punta Corona	29.69	754.2	29.88	759.0				nw.			5	2 k?	0	s.		0.323	8.2	cloudy?	Francisco Alvarado.
Valparaiso	29.97	761.2	30.06	763.4	56.1	13.4	91	se.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.32	643.0																	A. Gueluy.
Zi-Ka-Wei, near Shanghai.	30.15	765.9	30.18	766.5	63.5	17.5	79	ese.	1.8	0.8		7 ck	k			0	0	cloudy	M. Marc Dechevreus, S. J
DANISH.																			
Copenhagen	29.78	756.5	29.83	757.7	54.9	12.7	83	sse.	20	9			8						Oversergent Fischer.
Fanoe	29.58	751.3	29.60	751.8	52.1	11.1	93	s.			7		9					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.29	743.9	29.33	745.0	19.6	— 6.9	65	ne.			4		9						S. Kleinschmidt.
Jacobshavn, Greenland	29.30	744.2	29.35	745.4	13.6	—10.2		e.			2		8						
Stykkisholm, Iceland	28.91	734.3	28.95	735.4	41.7	5.4	83	se.			6		8						A. O. Thorlacius.
Thorshavn	28.80	731.5	28.82	732.1	50.5	10.3	95	s.	13	6			7						Overloerer Bergh.
Vestervig	29.45	748.0	29.54	750.3	51.3	10.7	93	sse.			6		10					raining	Loerer Oesterhol.
EGYPTIAN.																			
Cairo	29.92	760.0			74.7	23.7		ne.	5.4	2.4			1 k			0	0		Albert Ismaïun.
FRENCH.																			
Agen, Normal School	29.43	747.4	30.06	763.4	66.2	19	76	s.			1		10	sw.	sw.			raining	M. Labrouc, Director.
Alençon, Normal School	29.20	741.7	29.73	755.1	55.8	13.2	98	se.			1				nw.	0.362	9.2		M. Nicot, Director.
Avignon, Normal School	30.05	763.2	30.13	765.2	66.2	19	70	se.			2		8		se.	0.067	1.7	very cloudy	M. Giraud, Direc
Bar-sur-Seine	29.32	744.6	29.86	758.4	62.2	16.8	58	sw.			2		10 kn		wsw.	0	0	covered	M. Saillard, Direc
Beauvais, Normal School	29.43	747.4	29.69	754.1	55.8	13.2	88	ssw.			4		10		sw.	0.335	8.5	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.21	741.9	30.10	764.4	62.8	17.1	59	se.			1		2		nw.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.66	753.4	29.92	760.0	61.9	16.6	70	ssw.			1		10					raining	M. Rayet, Director.
Bourges, Normal School	29.31	744.5	29.85	758.3	61.7	16.5	64	wsw.			2		kn		wsw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.41	746.9	29.65	753.1	61.9	16.6	83	sw.			2		9		sw.	0.433	11.0		M. de Kermarée, Dir.
Caen, Normal School	29.57	751.1	29.68	753.9	60.4	15.8	75	sw.			2		10		ssw.	0.24	6.	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.45	747.9	29.76	755.9	58.8	14.9	74	sw.			6		10			0.551	14.0	covered	M. Ladot, Director.
Charleville, Normal School	29.28	743.7	29.78	756.5	56.1	13.4	75	s.			2		10					raining	M. Noel, Director.
Clermont-Ferrand Obs'y	28.59	726.1	29.91	759.7	64.4	18.0	55	sse.			2		10		s.	0	0		M. Alluard, Director.
Cluny, Normal School	29.12	739.3	29.94	760.5	67.1	19.5	64	se.			6					0.043	1.1		M. de Villemontée, Dir.
Commercy, Normal School	29.01	736.9	29.85	758.2	61.2	16.2	72	sw.			4		5 kn	sw.	sw.	0.12	3.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	30.04	763.1	54.9	12.7	70	s.			1		10 n			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.03	737.4	30.13	765.4	69.1	20.6	53	s.			2		5		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.28	743.8	30.03	762.7	69.8	21	44	sw.			4		kn		n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.34	719.7	29.89	759.3	60.8	16	72	sw.			6		10 kn		sw.	0.04	1.	covered	M. Delorme, Dir.
Lamballe, Normal School	29.32	744.7	29.60	751.7	61.2	16.2	77	w.			4		10		w.	0.39	10.	covered	M. Ollitrault, Director
Lescar, Normal School	29.37	745.9	29.91	759.7	73.9	23.3	43	wnw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.57	751.0	29.67	753.6	59.4	15.2	83	sw.			3		10		s.	0.213	5.4	covered	Lt. T. Carré, Director
Lyon, St. Genis-Laval	28.96	735.6	30.00	762.1	61.9	16.6	67	s.			3	ck	8 n	w.	s.	0	0	very cloudy	M. André, Director
Mans, Normal School	29.43	747.5	29.74	755.4	54.0	12.2	94	wsw.			6		5		sw.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.89	759.3	30.16	766.1	65.3	18.5	80	se.			3		9		sse.	0	0		M. Stephan, Director.
Montlouis	24.87	631.8	29.72	754.8	51.8	11.0	55	sw.	20.6	9.2			7		w.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.04	763.0	63.0	17.2	98	s.			4		10					light rain	M. Guizin, Director.
Nancy	29.15	740.3	29.92	759.9	61.9	16.6	75	s.			2	ck	n		sw.	0.122	3.1		M. Hasse, Director.
Nantes, Observatory	29.59	751.6	29.75	755.7	57.0	13.9	94	sw.			1		10			0.472	12.0	light rain	M. Laroque, Director.
Perpignan, Observatory	29.87	758.8	29.99	761.7	69.3	20.7	70	se.	7.4	3.3			4	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.1			32.0	0.0		sw.			4–6		8		w;ne	0.079	2.0	very cloudy	M. Vaussenat, Director.
Privas, Normal School	29.03	737.3	30.10	764.6	59.9	15.5	76	n.			4		5	n.	n.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.11	637.9			47.8	8.8	79	ssw.			6		8		ssw.	0.012	0.3	foggy	M. Alluard.
Rochefort, Naval Obs'y	29.82	757.5	29.85	758.3	56.5	13.6	89	s.			4		10			0.295	7.5	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.58	751.4	29.80	756.8	57.6	14.2	91	s.			6		10			0.75	19.	covered	M. Brotier, Director.
Rodez, Normal School	27.87	707.9	30.03	762.8	50.2	10.1	92	ne.			1.6		10 n		sw.			raining	M. Seger, Director.
Rouen, Normal School	29.61	752.0	29.65	753.2	55.4	13	95	ne.			1		10	ne.		0.051	1.3	covered	M. Mouillot, Dir.
St Lô	29.47	748.6	29.63	752.5	60.4	15.8	72	sw.			2		5		sw.	0.268	6.8	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.60	751.7	29.76	755.9	54.3	12.4	92	sw.			4		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.29	743.9	30.02	762.4	69.4	20.8	71	sse.			2		5	w.		0	0	cloudy	M. Baillaud, Director.
Tours	29.62	752.3	29.80	756.8	57.2	14.0	86	sw.			4		10		sw.	0.146	3.7	raining	M. de Tastes.
Versailles, Observatory	29.24	742.6	29.73	755.1	54.0	12.2	90	s.			10		8			0.433	11.0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.85	758.3	30.00	762.1	66.0	18.9	60	sw.	11.9	5.3			10 kn		sw.	0	0	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.56	725.4	29.98	761.5	62.6	17.0	53	ssw.			4		3	ssw.		0	0		Prof. Inedt.
Bamberg	29.25	742.9	30.09	764.3	64.8	18.2	52	s.			2		4 ks		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.85	758.1	29.99	761.7	62.6	17.0	64	se.			2		0			0	0		Dr. Lensch.
Breslau	29.62	752.3	30.15	765.8	62.6	17.0	53	s.			3		2	s.		0	0		Royal University Obs'y.
Carlsruhe	29.48	748.7	29.93	760.1	66.2	19.0	57	sw.			2		5	sw.		0.421	10.7		Albert Senz.
Cassel	29.14	740.1	29.85	758.2	64.8	18.2	58	s.			7		5	s.		0.374	9.5		Dr. H. Möhl.
Frankfort-on-the-Main	29.52	749.8	29.87	758.8	64.4	18.0	53	s.			2		4			0.055	1.4		Physical Society.
Friedrichshafen	28.60	726.5	30.02	762.5	54.3	12.4	85	sw.			1		7	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.71	754.5	29.80	756.8	59.4	15.2	72	sse.			6		9			0.012	0.3		E. Preller.
Kiel	29.73	755.2	29.75	755.6	56.7	13.7	70	s.			4		10			0.047	1.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.56	750.8	29.97	761.3	65.1	18.4	48	ssw.			3		1			0.024	0.6		H. Leppig, Asst.
Magdeburg	29.72	755.0	29.91	759.7	64.4	18.0	66	sse.			3		4	wsw.		0.039	1.0		Weather Observatory.
Memel	30.17	766.3	30.22	767.5	51.6	10.9	74	s.			5		0					clear	Issermann.
Munich	28.20	716.3	30.06	763.6	60.1	15.6	53	calm			0		1			0	0		Central Station.
Neufahrwasser	30.11	764.8	30.13	765.2	59.5	15.3	73	s.			3		4	ssw.		0	0		A. Lothes.
Neustadt, Palatinate	29.37	746.1	29.91	759.6	62.8	17.1	65	s.			4		4	s.		0	0		Dicknether.
Stuttgart	29.01	736.9	29.88	759.0	66.2	19.0	46	sw.			2		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.83	757.7	29.86	758.4	58.5	14.7	70	sse.			4		8 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.72	754.9	30.10	764.5	72.5	22.5		nw.			1.0		5 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.86	758.4	29.91	759.7	93.3	34.1	51	wsw.	22.0	9.8			4	wsw.		0	0	d. clouds	
Deesa	29.43	747.5	29.89	759.3	92.4	33.6	21	e.	13.0	5.8			0			0	0	blue sky	
Bombay	29.84	758.0	29.88	759.0	84.9	29.4	77	nne.	14.0	6.3			6		ne.	0	0	d. clouds	
Poona, Yarrowda	28.05	712.4	29.91	759.6	78.1	25.6	70	ne.	6.0	2.7			8			0.14	3.6	d. clouds	
Trichinopoly	29.59	751.6	29.88	758.9	73.2	22.9	93	ene.	0.1	0.04			10			0.56	14.2	overcast	
Bellary	28.40	721.5	29.89	759.2	74.5	23.6	91	ne.	8.0	3.6			10			0	0	gloomy	
Belgaum	27.36	694.9	29.93	760.2	70.4	21.3	93	ene.	2.0	0.9			10	e.		0.17	4.3	d. clouds	
Lahore	29.19	741.5	29.93	760.3	84.0	28.9	37	calm	0	0			0			0	0	blue sky	
Roorkee	28.97	735.8	29.86	758.5	83.8	28.8	37	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather	Observers.
INDIAN.—Continued.																			
Agra	29.34	745.1	29.89	759.3	89.7	32.1	22	nw.	6.0	2.7			0			0	0	blue sky	
Nagpur	28.88	733.6	29.92	760.0	81.3	27.4	63	ne.	8.0	3.6			8		ne.	0.04	1.0	d. clouds	
Vubbulpore	28.59	726.3	29.94	760.6	83.8	28.8	49	calm	2.0	0.9			1			0	0	blue sky	
Lucknow	29.53	750.1	29.90	759.6	85.1	29.5	28	calm	0	0			0			0	0	blue sky	
Allahabad	29.58	751.3	29.89	759.2	80.7	27.1	51	calm	0	0			0			0	0	blue sky	
Patna	29.69	754.0	29.87	758.7	84.4	29.1	45	nw.	2.1	0.9			2	nw.	nw.	0	0		
Hazaribagh	27.91	709.0	29.92	759.9	81.0	27.2	45	nw.	3.9	1.7			1			0	0	d. clouds	
Cuttack	29.87	758.7	29.95	760.8	83.8	28.8	72	calm	0	0			2			0	0	d. clouds	
Calcutta, Alipore	29.90	759.4	29.92	760.0	81.9	27.7	83	ssw.	3.0	1.3			0			0	0	blue sky	
Dhubri	29.78	756.3	29.89	759.3	82.0	27.8	77	calm	0	0			0			0	0	blue sky	
Chittagong	29.86	758.4	29.95	760.7	82.7	28.2	83	w.	1.8	0.8			0			0	0	blue sky	
Sibsagar	29.58	751.3	29.92	759.9	78.1	25.6	92	ne.	2.0	0.9			8	w.	w.	0.75	19.0	d. clouds	
Jeypore	28.50	723.8	29.92	760.0	88.7	31.5	23	ne.	2.3	1.0			0			0	0	blue sky	
Zanzibar	29.95	760.7			82.2	27.9	56	nw.	3.3	1.5			1	sse.		0	0	d. clouds	
ITALIAN.																			
Udine	29.75	755.7	30.16	766.0	66.6	19.2	50	sw.	0.7	0.3			4			0	0		Prof. Giovanni Clodig.
Milan	29.68	753.8	30.19	766.9	62.6	17.0	54	ssw.	2.5	1.1			0			0	0		Prof. G. V. Schiapparelli
Padua	30.01	762.3	30.12	765.1	64.6	18.1	53	nne.	0.7	0.3			5	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.27	743.4	30.17	766.3	60.4	15.8	57	s.	1.8	0.8			2	se.		0	0		Prof. F. F. Denza.
Genoa	30.00	762.1	30.19	766.9	66.2	19.0	56	sw.	3.8	1.7			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.26	717.9	30.17	766.3	57.0	13.9	59	nw.			4		0			0	0		Prof. D. O. Bruno.
Pesaro	30.14	765.5	30.19	766.7	61.9	16.6	76	n.	10.5	4.7			1			0	0		Prof. Luigi Guidi.
Florence	29.91	759.7	30.17	766.2	64.0	17.8	46	w.			2		1			0	0		Prof. Costantino Pittei
Leghorn	30.04	763.0	30.13	765.2	65.8	18.8	58	nw.	3.1	1.4			2			0	0		Prof. P. Monte.
Rome	29.98	761.5	30.15	765.9	68.5	20.3	48	ssw.	1.3	0.6			2			0	0		Prof. P. Tacchini.
Lecce	29.90	759.5	30.15	765.9	67.1	19.4	76	nnw.	12.5	5.6			6	n.		0.004	0.1		Prof. C. de Giorgi.
Cosenza	29.29	743.9	30.17	766.4	65.8	18.8	63	wnw.	3.1	1.4			1	w.		0	0		Prof. D. Conti.
Cagliari	29.95	760.8	30.14	765.6	68.0	20.0	67	se.			2		3			0	0		Prof. A. Pacinotti.
Palermo	29.93	760.3	30.18	766.6	68.7	20.4	65	ne.	3.8	1.7			1			0	0		Prof. G. Caccatore.
Syracuse	30.09	764.2	30.13	765.3	71.4	21.9	55	calm	0	0			6	nne.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.65	753.0	30.16	766.1	68.7	20.4	67	se.	0	0			0	nnw.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.96	761.0	29.99	761.7	61.1	16.2	96	calm			0	1 ck	2 k	nw.	nw.	0	0	clear	H. Hattori.
Awomori	29.95	760.7	29.99	761.7	54.9	12.7	87	s.	3.7	1.7		3 cs	0			0.040	1.0	fair	K. Ogawa.
Hamamatsu	29.89	759.2	29.99	761.7	65.2	18.4	92	calm			0	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.11	764.8	30.12	765.1	59.9	15.5	89	nw.			2	0	0			0	0	clear	G. Miyanohaza.
Kanazawa	29.93	760.2	30.03	762.8	61.1	16.2	93	se.	0.4	0.2		1 ck	2 s;ks			0.260	6.6	fair	S. Endo.
Kioto	29.87	758.7	30.04	763.1	61.1	16.2	95	nne.	0.3	0.1		1 cs	2 ck			0.068	1.7	fair	M. Tojima.
Kochi	30.04	763.0	30.06	763.5	66.0	18.9	90	nw.	6.7	2.9		4 ck	0	w.		0.26	6.6	fair	K. Kusunose.
Miasaka	30.08	764.0	30.11	764.7	65.2	18.4	95	ese.			2	0	0			0	0	clear	K. Masusaki
Miyako	29.89	759.3	30.00	762.1	58.7	14.8	99	w.	2.1	0.9			10 n			0.422	10.7	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.94	760.5	30.14	765.5	64.3	17.9	79	calm	0	0		0	0			0	0	clear	S. Takenayasu.
Niigata	29.97	761.2	30.01	762.2	62.2	16.8	95	se.	6.8	3.0		1c;cs	1ks;s	sw.	sw.	0.300	7.6	fair	Satoo & Tomikawa.
Nohiru	29.96	761.0	29.98	761.4	61.6	16.4	96	calm	2.0	0.9		2 ck	2 ks	n.		0.020	0.5	fair	Yoslino & Midzushina.
Numazu	29.93	760.2	29.97	761.2	63.1	17.3	88	e.			2	4 ck	0	w.		0	0	clear	K. Kaneda.
Osaka	30.03	762.7	30.05	763.1	62.8	17.1	90	nne.	2.3	1.0		0	2ck;s		w.	0	0	clear	H. Omura.
Sakai	30.08	764.0	30.09	764.2	55.6	13.1	94	w.			2	0	3 ks		w.	0.098	2.5	fair	Yamawchi & Sakamoto.
Shimonoseki	29.97	761.3	30.12	765.0	62.3	16.8	86	calm			0		10 s			0.083	2.1	cloudy	S. Sakaro.
Tokei Obs'y, Yeddo	29.91	759.7	29.98	761.6	62.6	17.0	99	s.	3.0	1.3		0	0			0	0	clear	The Staff.
Wakayama	29.98	761.6	30.04	762.9	64.7	18.2	85	calm	0	0		1 ck	0	nw.		0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	74.7	23.7	62	ene.	12.0	5.4			10k;ks			0.04	1.0	overcast	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.06	763.5	54.5	12.5	89	n.	0.9	0.4		1 c	1 s			0	0	clear	Prof. M. Leal.
Mazatlan	29.61	752.2	29.87	758.7	77.5	25.3	88	e.	0.9	0.4		0	0			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.58	751.4	29.58	751.4	56.1	13.4		s.			5					0.059	1.5		
Groningen	29.57	751.0	29.62	752.4	52.0	11.1		s.			5					0.280	7.1		
Helder	29.54	750.2	29.54	750.2	52.5	11.4		s.			5					0.181	4.6		
Hellevoetsluis	29.61	752.2	29.61	752.2	54.5	12.5	89	s.			5					0.201	5.1		
Utrecht	29.58	751.4	29.63	752.6	53.8	12.1	93	s.			5		8			0.295	7.5	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.87	758.8			81.3	27.4	81	nne.	0	0			6			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.27	743.4	29.33	745.0	55.8	13.2	45	sse.	20	9			10			0	0		
Brono	29.51	749.6	29.55	750.6	52.5	11.4	58	se.			4		4			0	0		
Christiania	29.50	749.4	29.65	753.1	52.5	11.4	88	s.	9	4			9			0.031	0.8		
Gjæsvær	29.50	749.2	29.52	749.8	43.2	6.2													
Lodingen	29.54	750.2	29.58	751.4	47.1	8.4	66	calm			0		10			0.020	0.5		
PORTUGUESE.																			
Angra, Azores					69.3	20.7	75	wnw.	14.3	6.4			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.22	767.5	30.30	769.7	72.7	22.6	51	sw.	4.9	2.2			2		n.	0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.91	759.7	30.24	768.2	63.0	17.2	71	ssw.	13.7	6.1			8			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.2	30.32	770.0	72.7	22.6	55	w.	6.3	2.8			4			0	0		
Saint Paul de Loando	29.70	754.3	29.90	759.4	75.2	24.0	91	w.	1.3	0.6			3			0	0		
San Salvador, Congo	28.09	713.5	29.91	759.7	81.1	27.3	62	se.			1		10			0	0		
Serra da Estrella	25.39	645.0	30.19	766.8	44.1	6.7	100	wsw.	35.3	15.8			10			0.547	13.9	raining	
RUSSIAN.																			
Akmolinski	28.60	726.4	29.70	754.4	34.7	1.5	80	w.	18	8			10 n			0.008	0.2		Major K. Lasarew.
Archangel	30.09	764.3	30.11	764.8	39.2	4.0	90	sw.	9	4		1 cs	0			0	0		Capt. Sseliwerstow
Ashurada	30.68	779.3	30.59	776.9	54.3	12.4	77	ene.	7	3			10 kn			blank	blank		
Astrakhan	30.68	779.2	30.60	777.3	47.5	8.6	27	nw.	11	5			10 s;n			0	0		Capt. Wisganow.
Baku	30.67	779.0	30.62	777.8	51.6	10.9	55	n.	22	10			9 ks			0.012	0.3		
Barnaul	29.35	745.4	29.85	758.1	47.1	8.4	45	calm	0	0			9			0	0	light clouds	Meteorological Obs'y
Bielosersk	29.91	759.6	30.39	771.8	40.9	8.3	56	wsw.	4	2		0	0			0	0		
Dorpat	30.00	762.0	30.25	768.3	47.1	8.4	73	sse.	11	5		8 ck	0			0	0		Observatory.
Ekaterinburg	29.07	738.4	30.08	763.9	29.5	— 1.4	73	nnw.	4	2		2 cs	0			0	0		Meteorological Obs'y.
Elissawetgrad	30.19	766.7	30.65	778.4	51.8	11.0	25	ese.	16	7		0	0			0	0		
Irkutsk	28.55	725.1	30.24	768.1	37.6	3.1	58	calm			0		1			0	0		
Kasalinsk					43.2	6.2	72	nnw.	9	4		c	6 n						
Kasan	30.02	762.5	30.30	769.6	40.3	4.6	71	w.	7	3			10			0	0		Observatory.
Kem	30.01	762.2	30.06	763.5	43.0	6.1	66	w.	18	8		0	7 ks			0	0		
Kertch	30.39	771.8	30.41	772.4	53.1	11.7	34	ene.	18	8		0	0			0	0		Lagorio & Sastyres.
Kieff	29.97	761.2	30.63	778.0	45.5	7.5	40	se.	7	3		c;cs	1 ks			0	0		Observatory.
Koslov	30.07	763.7	30.59	776.9	45.3	7.4	48	wnw.	4	2		1 c	0			0	0		
Libau	30.12	765.0	30.14	765.6	52.2	11.2	73	sse.	16	7			0			0	0	light clouds	E. Quaas.
Lugan	30.43	772.9	30.64	778.2	48.4	9.1	33	ne.	9	4			4			0	0		Meteorological Obs'y.
Moscow	30.08	764.0	30.58	776.6	46.6	8.1	47	nw.	3.4	1.5		4 c	0			0	0		Meteorological Obs'y
Nikolaiev	30.44	773.2	30.51	775.0	55.4	13.0	32	ene.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk-on-the-Amoor	30.01	762.2	30.10	764.4	28.0	— 2.2	73	calm	0	0		2 c	0						Iwanow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Pekin, China	30.07	763.7	30.21	767.5	62.6	17.0	93	calm	0	0		0	6 k			0.004	0.1		Physical Observatory.
Petro-Alexandrovsk	30.03	762.8	30.40	772 2	39.0	3.9	77	wnw.	5.6	2.5			10 k;n			0	0		
Petrozavodsk	30.03	762.8	30.23	767.9	42.3	5.7	68	sw	9	4		3 ck	0			0.039	1.0		Dr. Bergmann.
Pinsk	29.96	761.0	30.47	773.9	50.7	10.4	39	sse.	22	10		5 cs	0			0	0	light clouds	
Poti	30.17?	766.2?	30.20?	767.0?	70.9	21.6	80	e.	13	6		0	0			0.850	21.6		
St. Petersburg	30.23	767.9	30.26	768.5	42.3	5.7	60	s.	11	5		0	8 s;n			0	0		Central Physical Obs'y.
Samarkand	27.65	702.3	30.06	763.4	69.3	20.7	29	w.	3.4	1.5			9 n			0.528	13.4		
Semipalatinsk	29.24	742.6	29.89	759.2	54.1	12.3	17	s.	20	9			6			0	0		Major Lasarew
Sevastopol	30.08	763.9	30.29	769.3	66.9	19.4	32	sw.	16	7		1 cs	0			0	0		
Staroi Bykhov	30.00	761.9	30.57	776.5	49.6	9.8	40	se.	13	6		3 cs	0			0	0	light clouds	
Tashkend Laboratory	28.40	721.4	30.03	762.7	69.4	20.8	34	calm	0	0			9 kn			0	0		Torch, A. M
Tiflis	29.13	739.8	30.58	776.8	51.1	10.6	65	se.	9	4			10			inap.	inap.		Physical Observatory.
Vernoe	27.39	695.7	29.82	757.4	64.4	18.0	29	calm	0	0		1 ck	0			0	0		
Viatka	29.56	750.7	30.21	767.3	36.5	2.5	98	w.	4	2			10			0.024	0.6		
Warsaw	29.83	757.7	30.26	768.6	54.1	12.3	67	sse.	9	4		3 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	29.87	758.6	30.17	766.2	32.7	0.4	79	n.	2	1			10			0	0		M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.99	761.7	30.09	764 3	70.2	21.2	77	sw.	11.9	5.3			6			0.421	10.7		Antonio Molins.
Bilbao, Met. Obs'y	29.94	760.4	30.00	761.9	59.5	15.3	74	sw.	4.0	1.8			10			0.020	0.5	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.0	30.21	767.2	47.3	8.5	89	s.	8.7	3.9			10			0.118	3.0	covered	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.9	30.17	766.2	62.1	16.7	53	sw.	12.5	5.6			10			0	0		The Staff.
Murcia, Met. Obs'y	30.00	762.0	30.14	765.6	73.8	23.2	61	s.	2.7	1.2		2	3	ese.		0	0	clouds	Olayo Diaz, Director.
Oviedo	29.09	738.9	29.85	758.2	59.0	15.0	81	se.	9.2	4.1		8 n	4 k	n.	n.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.02	737.1	29.91	759.7	58.8	14.9	100	ssw.	9.4	4.2			10			0.921	23.4	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.91	760.6	30.01	762.2	76.3	24.6	85	e.	18.3	8.2		6cp;cs	1 ks	wsw.	s.	0.03	0.7	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	758.9	29.94	760 4	78.0	25.6	78	n.	6.6	3.0		0	6 ks		ne.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.12	764.9	30.21	767.4	68.0	20.0	77	w.	8.2	3.7		0	3		nw.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.90	759.5	29.99	761.8	80.6	27.0	86	calm	0	0		1 c	2 k	se.	se.	0.098	2.5	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.84	757.9	29.88	758.9	41.7	5.4	91	s.			4		10			0	0		
Umea	29.81	757.1	29.86	758.4	43.5	6.4	100	sw.			4		10			0.157	4.0		
Hernosand	29.76	756.0	29.82	757.3	46.4	8.0	100	calm			0		10			0	0	foggy	
Stockholm	29.73	755.1	29.91	759.6	53.2	11.8	85	sw.			4		10			0.031	0.8		
Wisby	29.95	760.8	30.01	762.3	53.2	11.8	88	ssw.			4		7			0.024	0.6		
Sub-series.																			
Upsala	30.13?	765.3?	30.22?	767.5?	50.5	10.3	99	s.	11.9	5.3			10		s.	0.189	4.8		H.H.Hildebrandsesson
Swiss.																			
Geneva	28.62	726.9	30.01	762.2	66.9	19.4	55	ssw.			2		7			0	0	cloudy	The Observatory.
Turkish.																			
Constantinople			30.13	765.2	64.4	18.0	74	ne.	19	8.5			10		ne.	0.268	6.8		The Observatory.
Valona			30.22?	767.6?	71.8	22.1		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.08	764.0	79.2	26.2	69	ne.			1		2 k		nw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.95	684.5			46	7.8	93	calm			0		10 n		calm	2.58	65.5	threatening.	Fred L. Kingsbury.
United States.																			
Albany, New York	30.64	778.2	30.72	780.3	36	2.2	61	n.	4	1.8		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	30.02	762.5	30.69	779.5	28	— 2.2	88	nw.	4	1.8		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.79	629.7	29.69	754.1	53.5	11.9	80	se.	11	4.9			10 ks		sw.	0.31	7.9	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.13	689.1	30.05	763.3	33	0.6	71	sw.	6	2.7			10 s		sw.	0.03	0.7	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.14	740.1	30.33	770.4	57.0	13.9	84	e.	18	8.0			10 s		e.	0	0	cloudy	Edward A. Beale.
Atlantic City, New Jersey	30.54	775.7	30.55	776.0	41.7	5.4	70	n.	14	6.3		2 k	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.20	767.1	30.39	771.9	59.6	15.3	73	ne.	10	4.5			10 s		ne.	inap.	inap.	cloudy	Louis Duane.
Baltimore, Maryland	30.59	777.0	30.64	778.2	41.5	5.3	54	n.	9	4.0		0	0			0	0	clear	Geo. W. Felger.
Barnegat City, New Jersey	30.56	776.2	30.58	776.7	45.0	7.2	60	n.	24	10.7		5 k	0	ne.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.47	723.1	30.09	764 3	47.0	8.3	86	se.	20	8.9			10 s		se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.15	689 6	30.06	763.5	31	— 0.6	81	calm	0	0			10 s			0.04	1.0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.22	716.8	30.10	764.5	47	8.3	77	se.	11	4.9			10 s			0.16	4.1	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.56	776.2	30.59	777.0	40.5	4.7	82	ne.	34	15.2		0	2 s		ne.	0	0	clear	J. T. Eiker.
Boise City, Idaho	27.13	689.1	29.99	761.7	37	2.8	92	calm	0	0			10 s			0.35	8.9	cloudy	B. E. Light.
Boston, Massachusetts	30.47	773.9	30.63	778.0	33.0	0.6	68	nw.	15	6.7		0	1 s;hz			0	0	clear	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.03	762.7	73.0	22.8	97	calm	0	0		0	5 ks		s.	0.33	8.4	fair	John McGlone.
Buffalo, New York	29.93	760.2	30.69	779.5	33.8	1.0	75	ne.	2	0.9		0	sk.			0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.94	709.7	30.04	763.0	41	5.0	92	ne.	8	3.6			10 s		ne.	0.16	4.1	cloudy	A. Schneider.
Cairo, Illinois	30.02	762.5	30.42	772.7	43.8	6.6	85	ne.	4	1.8		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.74	755.4	29.94	760.5	50.0	10.0	93	nw.	2	0.9			10 s		nw.	0	0	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.47	773.9	30.49	774.4	54.0	12.2	80	ne.	25	11.2		0	3 ks		n.	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.52	775.2	30.56	776.2	41.0	5.0	40	n.	16	7.2		0	0			0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.26	743 2	29.95	760.7	48	8.9	93	nw.	19	8.5			10 ks		nw.	0	0	cloudy	J. J. McLean.
Cedar Keys, Florida	30.14	765.5	30.10	766.1	74.0	23.3	84	ne.	3	1.3		4 c	0	sw.		0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.27	768.8	30.33	770.4	61.0	16.1	84	ne.	16	7.2			10 s		ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.60	751.8	30.46	773.7	51.0	10.6	66	ne.	12	5.4			10 s		ne.	0.02	0.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.52	749.8	30.34	770.6	55.0	12.8	80	ne.	9	4.0			10 s		n.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.94	608.1	29.96	761.0	38.4	3.6	62	s.	1	0.4			fg.			0	0	dense fog	E. McGovern.
Chicago, Illinois	29.87	758.7	30.58	776.7	46.0	7.8	68	e.	16	7.2		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.48	774.2	30.50	774.7	49	9.4	86	n.	21	9.4		0	7 ks		e.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.86	758.4	30.52	775.2	39.6	4.2	79	ne.	7	3.1		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.87	758.7	30.61	777.5	37.3	2.9	52	e.	4	1.8		4 k	0	ne.		0.08	2.0	fair	J. B. Newlin.
Columbus, Ohio	29.67	753.6	30.53	775.4	36	2.2	61	ne.	10	4.5		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.12	714.2	30.07	763.8	66.5	19.2	90	e.	7	3.1			10 s		calm	inap.	inap.	cloudy	C. E. King.
Custer, Fort, M. T	26.78	680.2	30.02	762.5	36	2.2	92	nw.	3	1.5			10 s			0	0	threatening.	T. Gibson.
Davenport, Iowa	29.86	758.4	30.52	775.2	37	2.8	82	se.	13	5.8		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	30.04	763 0	61.3	16.3	84	s.	8	3.6			10 ks		s.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.21	716 5	30.00	762.0	32.5	0.3	88	ne.	6	2.7		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.26	641.6	29.94	760.5	44.7	7.1	75	calm	0	0			10 s			0	0	cloudy	F. Des Willson.
Delaware Breakwater, Del	30.48	774.2	30.50	774.7	47.5	8.6	82	ne.	36	16.1		0	1 k			0	0	clear	F. W. Mixer.
Denver, Colorado	24.62	625.3	29.88	758.9	43.0	6.1	81	calm	0	0			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.55	750.6	30.47	773.9	37	2.8	89	se.	3	1.3		0	sk			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.93	760.2	30.64	778.2	35.0	1.7	69	n.	9	4.0		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.50	698.5	30.14	765 5	48	8.9	71	se.	20	8.9			10 s		se.	0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.85	758.2	30.57	776.5	37.5	3.1	80	e.	2	0.9		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.74	755.4	30.50	774 7	46	7.8	68	e.	4	1.8			10 s			0	0	cloudy	N. B. Conger.
Eastport, Maine	30.50	774.7	30.57	776.5	34.5	1.4	70	n.	10	4.5		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.29	693 2	30.08	764.0	56	13.3	93	se.	16	7.2			10 s			0.17	4.3	cloudy	J. C. Rickli.
El Paso, Texas	26.16	664.5	29.90	759.4	62.2	16.8	78	se.	4	1.8		0	7 s		se.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.94	760.5	30.67	779.0	38	3.3	72	se.	5	2.2		0	1 k		se.	0.01	0.3	clear	C. A. Shaw.
Escanaba, Michigan	29.95	760.7	30.62	777.7	40.5	4.7	78	calm	0	0		4 ck	6 s	nw.	se.	0	0	cloudy	George Heathcote.
Galveston, Texas	30.07	763.8	30.11	764.8	67	19.4	84	ne.	12	5.4		2 cs	4 ks		e.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.94	760.5	30.61	777.5	34.0	1.1	78	ne.	4	1.8		0	0			0	0	clear	Wm. H. Fallon.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.05	636.3	29.75	755.6	56.7	13.7	64	se.	6	2.7		0	7 ks		s.	0.09	2.3	fair	Chas. A. Read.
Hatteras, North Carolina	30.38	771.6	30.39	771.9	60.0	15.6	70	ne.	18	8.0		hz.	3 k		e.	0	0	clear	R. M. Crawford.
Helena, Montana	25.73	653.5	30.03	762.7	23	— 5.0	73	ne.	4	1.8		0	0			blank	blank	clear	I. H. Jones.
Huron, Dakota	28.80	731.5	30.23	767.8	43.5	6.4	85	se.	17	7.6			10 ks		se.	0.12	3.0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.69	754.1	30.49	774.4	36.6	2.6	69	e.	2	0.9		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.03	762.7	30.06	763.5	71.4	21.9	96	ne.	26	11.6		2 ck	4 ks	se.		0	0	fair	I. A. Reed.
Jacksonville, Florida	30.15	765.8	30.19	766.8	74.3	23.5	83	ne.	12	5.4		2 cs	7 s		ne.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.83	757.7	30.50	774.7	36.0	2.2	79	e.	10	4.5		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	78	25.6	90	ne.	10	4.5		4 k	4 ks	ne		0.21	5.3	cloudy	A. W. Browne.
Kittyhawk, North Carolina	30.42	772.7	30.44	773.2	58.5	14.7	85	ne.	20	8.9		1 k	5 ks	ne.	ne.	0	0	fair	Wesley Blake.
Knoxville, Tennessee	29.32	744.7	30.36	771.4	53.3	11.8	84	ne.	5	2.2			10 s			0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.76	755.9	30.54	775.7	40.2	4.6	73	s.	3	1.3		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.47	748.5	30.37	771.4	41	5.0	82	e.	4	1.8		5 c	0	nw.		0	0	fair	T. S. Outram.
Lewiston, Idaho	29.14	740.1	30.00	762.0	43.0	6.7	74	calm	0	0		0	6 s			0	0	fair	C. E. Butler.
Little Rock, Arkansas	29.98	761.5	30.30	769.6	49.0	9.4	86	ne.	5	2.2		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.50	749.3	29.90	759.4	55	12.8	86	nw.	4	1.8			10 s		n.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.87	758.7	30.44	773.2	41.1	5.1	73	n.	10	4.5		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.85	758.2	30.54	775.7	47.0	8.3	56	ne.	4	1.8			10 s		ne.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.98	761.5	30.65	778.5	38.8	3.8	67	sw.	0	2.7		0	8 s			0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.39	771.9	30.40	772.1	59.0	15.0	75	n.	22	9.8		0	9 s		w.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.46	646.7	30.00	762.0	29	— 1.7	67	nw	2	0.9			10 s		nw.	0.75	19.0	cloudy	F. Burke.
Marquette, Michigan	29.87	758.7	30.61	777.5	42.7	5.9	47	sw.	10	4.5			10 s		sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.96	761.0	30.30	769.6	48	8.9	93	ne.	8	3.6		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.86	758.4	30.62	777.7	45.5	7.5	57	e.	16	7.2		0	0			0	0	clear	W. Lins.
Mobile, Alabama	30.13	765.3	30.17	766.3	63	17.2	84	n.	10	4.5		7c;ck	3s;sk	nw.		0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.99	761.7	30.22	767.6	62	16.7	87	ne.	2	0.9			10 s		e.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.28	743.7	30.30	769.6	40	4.4	89	se.	18	8.0			10 s		se.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	24.07	611.4	30.41	772.4	9.2	—12.7	100	ne.	11	4.9		0	0			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.77	756.1	30.35	770.9	46.0	7.8	93	ne.	7	3.1			10 s		s.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.51	774.9	30.63	778.0	33.2	0.7	62	n.	15	6.7		0	0			0	0	clear	J. H. Sherman.
New London, Connecticut	30.62	777.7	30.68	779.3	38.5	3.6	61	n.	10	4.5		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.14	765.5	67.0	19.4	76	ne.	10	4.5		7 c;ok	hz.	nw.		0	0	fair	M. Herman.
New York, New York	30.47	773.9	30.65	778.5	37.3	2.9	51	ne.	12	5.4		0	0			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.44	773.2	30.47	773.9	54.0	12.2	77	ne.	12	5.4		0	2 k		ne.	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.16	689.9	30.12	765.0	44.6	7.0	94	se.	20	8.9			10 n			0.06	1.5	light rain	E. F. Brady.
Olympia, Washington T'y	29.90	759.4	29.94	760.5	41.0	5.0	92	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.19	741.4	30.39	771.9	40.0	4.4	82	se.	6	2.7		0	8 s		se.	0	0	cloudy	A. Pollak
Oswego, New York	30.36	771.1	30.69	779.5	30.0	2.2	61	se.	4	1.8		0	1 k			0	0	clear	J. G. Lansley
Palestine, Texas	29.62	752.3	30.18	766.6	56.5	13.6	90	ne.	8	3.6		4 cs	0			0	0	fair	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	67.2	19.6	76	n.	4	1.8		7c;cs	hz.	w.		0	0	fair	M. McGauran.
Philadelphia, Pa.	30.54	775.7	30.64	778.2	38	3.3	54	n.	13	5.8		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.75	450.8	30.03	762.7	20	— 6.7	100	sw.	5	2.2			10 ks		sw.	inap.	inap.	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.78	756.4	30.60	777.2	35.5	1.9	65	ne.	6	2.7		0	0			0	0	clear	G. C. Schaeffer.
Port Huron, Michigan	29.95	760.7	30.64	778.2	34.4	1.3	78	e.	8	3.6		0	0			0	0	clear	M. H. Perry
Portland, Maine	30.59	777.0	30.64	778.2	37.0	2.8	61	ne.	7	3.1		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.89	759.2	29.96	761.0	44.0	6.7	93	calm	0	0		0	2 s			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.54	623.3	29.70	754.4	50.3	10.2	91	sw.	2	0.9			10 s		sw.	0.19	4.8	cloudy	N. D. Lane.
Provincetown, Mass.	30.56	776.2	30.59	777.0	42	5.6	45	ne.	14	6.3			10 ks		ne.	0	0	cloudy	C. N. Kitchel.
Red Bluff, California	29.58	751.3	29.94	760.5	45	7.2	70	nw.	6	2.7		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	71.0	21.7	93	se.	1	0.4		0	2 s		se.	0	0	clear	Fred. Belford.
Rochester, N. Y.	30.03	762.7	30.70	779.8	33	0.6	71	se.	10	4.5		5 k	0	ne.		0	0	fair	
Roseburg, Oregon	29.45	748.0	30.01	762.2	39.8	4.3	84	n.	1	0.4		0	4k;s		n.	0	0	fair	J. J. Nanry.
Sacramento, California	29.85	758.2	29.93	760.2	47.9	8.8	88	se.	3	1.3		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.84	757.9	30.46	773.7	39.5	4.2	84	ne.	10	4.5		0	0			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.44	747.8	29.47	748.5	41.5	5.3	96	se.	4	1.8			10 s		se.	0.03	0.8	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.62	752.3	30.49	774.4	38.0	3.3	82	se.	12	5.4		3 cs	0			inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.37	746.0	30.27	768.8	41	5.0	92	se.	5	2.2			10 n			inap.	inap.	light rain	C. B. Dilley
Salt Lake City, Utah	25.49	647.4	29.89	759.2	46	7.8	71	calm	0	0			10 s			0.12	3.0	threatening	J. Craig.
San Diego, California	29.82	757.4	29.89	759.2	59.5	13.6	90	nw.	3	1.3			10 n		nw.	0.01	0.3	light rain	F. R. Day.
Sanford, Florida	30.06	763.5	30.11	764.8	73.0	22.8	90	ne.	9	4.0			10 ks		e.	inap.	inap.	cloudy	J. B. Marbury.
Sandusky, Ohio	29.93	760.2	30.62	777.7	38.5	3.6	64	s.	6	2.7		0	3 ks		s.	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.61	777.5	30.64	778.2	40.0	4.4	65	ne.	31	13.9		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.88	758.9	29.95	760.7	51.5	10.8	86	w.	8	3.6		0	fg.		w	0	0	clear	N. Gorom.
Savannah, Georgia	30.20	767.1	30.29	769.4	65	18.3	81	ne.	21	9.4			10 s		ne.	0.28	7.1	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	30.03	762.7	7	—13.9	80	calm	0	0		0	0			0.17	4.3	clear	S. W. Morrison.
Shreveport, Louisiana	29.92	760.0	30.16	766.1	53.4	11.9	88	se.	5	2.2		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly
Sitka, Alaska	29.90	759.4	29.97	761.2	44.2	6.8	93	se.	6	2.7			10 n		se.	0.85	21.6	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.79	756.7	30.27	768.8	51.0	10.6	80	e.	6	2.7		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.34	770.6	30.38	771.6	56.3	13.5	73	ne.	13	5.8			10 s			0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.93	760.2	31.8	— 0.1	52	n.	1	0.4		3 c	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.82	757.4	30.51	774.9	37.5	3.1	66	e.	8	3.6		0	0			0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	26.96	684.8	29.98	761.5	65.0	18.3	90	se.	14	6.3		0	6 s		sw.	0.01	0.3	fair	Louis Dorman.
Tatoosh Id., Wash. Ter.	29.93	757.7			47.0	8.3	93	se.	4	1.8			10 s		s.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.04	686.8	29.75	755.6	51	10.6	61	calm			0	0	5 s			0.05	1.3	fair	R. O. Lord.
Toledo, Ohio	29.90	759.4	30.60	777.2	42.8	6.0	44	ne.	2	0.9			5 k		ne.	0	0	fair	A. Buell.
Unalaska, Alaska	29.59	751.6	29.61	752.1	40	4.4	82	s	8	3.6			10 n		s.	1.02	25.9	light rain	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.96	761.0	30.22	767.6	55.3	12.9	90	n.	4	1.8		0	1 s		n.	0	0	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.50	774.7	30.62	777.7	39.0	3.9	63	n.	8	3.6		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.97	659.6	29.50	759.4	53.5	11.9	76	e.	8	3.6			10 s		s	0	0	cloudy	F. H. Brandenburg.
Wilmington, N. Carolina	30.36	771.1	30.42	772.7	56.0	13.3	74	ne.	7	3.1			10 s			0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	28.95	735.3	30.28	769.1	43.7	6.5	78	s.	15	6.7			10 s		s.	inap.	inap.	cloudy	E. H. Thompson.
Yuma, Arizona	29.59	751.6	29.74	755.4	62.4	16.9	50	sw.	3	1.3		0	8 s		se.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					75	23.9		nw.			1	1 c	4 ck		ne.	0	0	fair	W. H. Jackson.
Bogota, U. S. C.	22.03	559.5			54.5	12.5	85	calm	0	0			5ks;s		nw.	0.012	0.3		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.00	762.0	75.4	24.1	87	n.	1	0.4		1 cs	4 s			0.80	20.3	fair	Robert Johnstone.
Paramaribo, S. A.	29.96	761.0	29.96	761.0	79	26.1	87	e.			2	4 c	0			0.120	3.0	clear	Dr. C. J. Herint.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	77	25.0	89	calm			0		10 ks		s	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	90	w.			1	10 ck		w.		1.04	26.4	cloudy	Earl Flint.
York Factory, B. A.	30.34	770.6	30.40	772.1	30.5	— 0.8	95	sw.	9	4.0		3 k	2 s	sw.	sw.	0.10	2.5	raining	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 51′, E. 25° 12′	30.12	765.0	66	18.9	79	ne.			4		8	nne.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	76.5	24.7	84	ssw.			1–2		4	ssw.						d. clouds.
H. M. S. Iris, Alexandria, Egypt	30.11	764.8	78	25.0	73	wnw.			2		3							d. clouds.
H. M. S. Inflexible, N. 37° 28′, W. 20° 50′	30.18	766.6	74	23.3	100	var.			1		4	wnw.				1	wnw.	d. clouds.
H. M. S. Orontes, N. 3° 49′, W. 10° 29′	30.00	762.0	78	25.6	91	s.			1		10					4	sse.	overcast.
H. M. S. Opal, Niger river, W. Africa	29.92	760.0	80	26.7	82	wsw.			1		4	calm						d. clouds
H. M. S. Superb, N. 37° 56′, E. 23° 39′*	30.14	765.5	69	20.6	?	nw.			2		7	sse.				1	sse.	d. clouds.
H. P. M. S. Douro, N. 1° 38′, E. 7° 27′	29.95	760.6	81.5	27.5	80	sse.			1		9			6 h'r	6 h'r	1	se.	d. clouds
U. S. Navy Yard, Portsmouth, N. H*	30.62	777.7	33	0.6	70	n.	8	3.6			0			0	0			clear.
U. S. S. Alliance, New York, N. Y	30.61	777.5	40	4.4	82	nne.			5		0			0	0			clear.
U. S. S. Jamestown, N. 32° 16′, W. 66° 54′	29.99	761.7	75	23.9	95	nne.			6		8		ne.			rg'h	nne.	cloudy.
U. S. S. Kearsarge, Malaga, Spain	30.19	766.8	70	21.1	70	sse.			2		2		calm					fair.
U. S. S. Lancaster, Malaga, Spain	30.14	765.3	67	19.4	89	calm			0		5		ne.			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I			41	5.0	65	nne.			4		2					sm'h		fair.
U. S. S. Portsmouth, New York, N. Y	30.61	777.5	44	6.7	52	nne.			4		0							clear.
U. S. S. Powhatan, N. 42° 43′ W 65° 10′	30.47	773.9	42	5.0	91	ne.			5		5		ne.			sm'h	n.	fair
U. S. S. Quinnebaug, Leghorn, Italy	30.23	767.8	67	19.4	60	nw			1		2		w.			sm'h		fair.
U. S. S. Saratoga, Cold Spring, N. Y	30.68	779.3	37	2.8	62	nnw.			3–4		0			0	0	sm'h		clear.
U. S. S. Swatara, N. 31° 26′, W. 70° 27′	30.11	764.8	76	24.4	86	n.			4		5		n.	light	light		n.;w.	fair.
U. S. S. Vandalia, New York, N. Y†	30.60	777.2	41	5.0	65	ne.			4		0							clear.
S. S. British Crown, N. 41° 41′, W. 65° 02′†	30.41	772.4	49	9.4		nne.			4		5		n.	0	0	sm'h		fine.
S. S. British Prince, N. 51° 25′, W. 16° 07′*†	29.35	745.5	57	13.9		w.			3		8		sw.	sh'rs	sh'rs	mod.	nnw.	cloudy
S. S. Lord Clive, N. 40° 18′, W. 66° 41′						nne.			6		9		nne.	0	0	str'ng	nne.	cloudy.
S. S. Ohio, Liverpool, Eng			55	12.8	93	w.			3		3		w.	6 h'r	6 h'r			clear
S. S. Circassian, N. 56° 04′, W. 33° 30′	29.23	742.4	42	5.6	83	w.			4		6		w.			4	con.	d. clouds.
S. S. Nova Scotian, N. 50° 42′, W. 39° 54′	29.52	749.8	45	7.2		nw.			5		5		nw.			high	wnw.	squally.
S. S. Prussian, N. 44° 59′, W. 56° 10′	30.34	770.6	45	7.2		nne			4		8		ne.	0	0	mod.	ne.	cloudy.
S. S. Scandinavian, Glasgow, Scotland	28.97	735.8	50	10.0		ssw.			5		10		ssw.	2 h'r	2 h'r			hy. showers.
S. S. Andes, N. 27° 45′, W. 74° 00′*†	30.15	765.8				ne.			3		2		ne.			mod.		clear.
S. S. Ailsa, Savanilla bay, U. S. C			84	28.9	?	sse.			2		8		se.	1 h'r	1 h'r			cloudy.
S. S. Assyria, N. 45° 36′ W. 45° 45′	29.96	761.0	45	7.2	92	n.			5		8	w.	n.	10 h'r	10 h'r	mod.	n.	fine.
S. S. Devonia, N. 51° 57′, W. 32° 30′*†	29.33	745.0	49	9.4		wnw.			5		5		wnw.			mod.	wnw.	squally.
S. S. Dorian, N. 40° 16′, W. 26° 30′	30.19	766.8	70	21.1		wsw.			6		2		w.	0	0	long	nnw	fine.
S. S. Furnessia N. 41° 37′, W. 62° 02′†	30.28	769.1	54	12.2	74	nne.			6		10		ne.	0	0	r'gh	ne.	hazy.
S. S. Llandaff City, N. 40° 28′, W. 66° 00′ †	30.34	770.6	50	10.0		nne.			6		8		n.	0	0	high	nne.	cloudy.
S. S. Gallia, N. 49° 07′, W. 29° 30′	29.49	749.0	60	15.6	76	n.			4		8		nw.	3 h'r	3 h'r	mod.	nw.	squally.
S. S. Pavonia, N. 40° 42′, W. 71° 28′*	30.53	775.4	56	13.3	75	nnw.			3		7		nw.	0	0	sli't	nne.	cloudy.
S. S. Canada, N. 41° 32′, W. 68° 39			48.2	9		n.			4		k		n.	0	0	sm'h	n	cloudy.
S. S. Arizona, off Sandy Hook, N. J			44	6.7		n.			4		2		n.	0	0	sm'h		clear.
S. S. Wisconsin, N. 50° 41′, W. 26° 17′*	29.37	746.0	55	12.8		nw.			3		8		nw.	8 h'r	8 h'r	long	nnw.	cloudy
S. S. Wyoming, N. 50° 55′, W. 20° 14′	29.35	745.5	49	9.4		wnw.			6		7		wnw.	4 h'r	4 h'r	long	nw.	cloudy.
S. S. Bohemia, N. 50° 37′, 0° 00′						sw.			6		8		sw.	5 h'r	5 h'r	long	ssw.	overcast.
S. S. Gellert, Hamburg, Germany			54	12.2	87	se.			3		8		ssw.	4 h'r	4 h'r			cloudy.
S. S. Silesia, N. 41° 50′, W. 60° 30′	30.35	770.9	50	10.0		nne.			6		10		nne.	0	0	mod.	ne.	squally.
S. S. Westphalia, N. 49° 49′, W. 26° 05′			58	14.4	100	w.			6		7		w.	3 h'r	3 h'r	mod	w.	squally.
S. S. Nessmore, N. 50° 14′, W. 15° 15′	29.30	744.2	57	13.9	94	w.			5		8		wsw.	0	0	h'vy	wnw.	cloudy.
S. S. Bulgarian, N. 50° 27′, W. 32° 49′						wnw.			4		10		wnw.	1 h'r	1 h'r	high	nw.	overcast.
S. S. Archimedes, N. 39° 18′, W. 9° 35′	30.19	766.8				ssw.			2		10		s.	0	0	light	var.	misty.
S. S. Hevelius, Liverpool, Eng†	29.18	741.2	55	12.8		wnw.			8				nw.	6 h'r	6 h'r			cloudy.
S. S. Rosse, N. 27° 30′, W. 19° 38′*	30.24	768.1	76	24.4		nne.			6				nne.	0	0	mod.	n.	clear.
S. S. Lampassas, N. 34° 20′, W. 76° 05′			78	25.6		nne.			7		7		ne.	0	0	r'gh	nne.	cloudy.
S. S. Chalmette, N. 32° 00′, W. 79° 56′†	30.23	767.8	72	22.2		ne.			6		10		ne.	1 h'r	1 h'r	long	ne.	cloudy.
S. S. Lone Star, N. 25° 18′, W. 84° 03′*†	30.00	762.0	82	27.8		ese.			3		7		ese.	6 h'r	6 h'r	mod	e.	squally.
S. S. Alleghany, Norfolk, Va†	30.55?	776.0?	60	15.6		ne.			2		2		ne.	0	0	long	e.	cloudy?
S. S. Archimede, New York, N. Y†	30.54?	775.7?	54	12.2		ene.			4		0			0	0			clear.
S. S. City of Washington, N. 27° 27, W. 80° 01′*†	30.10	764.5	83	28.3		e.			2		8		e.	light	light	sm'h		light rain.
S. S. Cienfuegos, N. 20° 00′, W. 74° 15′			86	30.0		ne.			3		1		n.	2 h'r	2 h'r	g'ntle	ene.	clear.
S. S. Denmark, London, Eng†	29.39	746.5	63	17.2		sw.			8		8		sw.	4 h'r	4 h'r			fair.
S. S. Egypt, N. 48° 01′, W. 37° 16′	29.64	752.8	54	12.2		wnw.			5		10		wnw.	0	0	h'vy	wnw.	cloudy.
S. S. Grecian, N. 56° 25′, W. 18° 10′	28.95	735.3	57	13.9	94	sw.			3		10		wnw.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Erin, N. 49° 46′, W. 6° 52′			56	13.3		wsw.			8		7		wsw.	6 h'r	6 h'r	h'vy	w.	fair.
S. S. Holland, N. 40° 30′ W. 71° 11′	30.53	775.4	49	9.4		ne.			6		7		ne.	3 h'r	3 h'r	mod.	nne.	fair.
S. S. Elpe, N. 49° 06′, W. 39° 39′	29.63	752.7	49.1	9.5	100	wnw.			6		8		wnw.	3 h'r	3 h'r	high	wnw.	squally.
S. S. Habsburg, N. 41° 47′, W. 62° 26′	30.31	769.9				n.			6		10		nne.	2 h'r	2 h'r	rg'h	n.	cloudy.
S. S. Orinoco, New York, N. Y			46	7.8		ene.			3		0			0	0			clear.
S. S. Neckar, N. 45° 45′, W. 50° 01′	30.07	763.8	50.0	10.0	58	nne.			5		7		n.	0	0	r'gh	nne.	fair.
S. S. Oder, Southampton, Eng	29.43	747.5	55.4	13.0		wsw.			6		6		wsw.	5 h'r	5 h'r			squally.
S. S. Ohio, N. 34° 54′, W. 60° 04′	30.13	765.3				wsw.			3		3		wsw.	0	0	light	sw.	clear.
S. S. Rhein, N. 50° 05′, W. 4° 25′	29.50	749.3				sw.			6		7		sw.	3 h'r	3 h'r	cross	sw.	fair.
S. S. Salier, N. 43° 08′, W. 56° 51′			50.0	10.0		nne.			6		10		nne.	2 h'r	2 h'r	cross	nne.	covered.
S. S. Strassburg, N. 42° 07′, W. 57° 49′	30.24	768.1	54	12.2	64	n.			6		10		n.	16 h'r	16 h'r	5	nnw.	squally.
S. S. Weser, N. 28° 22′, W. 92° 48′	30.14	765.5	78.8	26.0		ne.			5		2		ne.	0	0	mod.	ne.	clear.
S. S. City of Augusta, N. 38° 11′, W. 74° 47′†	30.53	775.4				nne.			6		8		nne.			h'vy		threatening.
S. S. Muriel, N. 27° 40′ W. 67° 27′	30.02	762.5	79	26.1		ne.			3		0			0	0	mod.	e.	clear.
S. S. Belgenland, N. 46° 45′, W. 62° 15′			61	16.1	71	n.			7		9		n.	1 h'r	1 h'r	mod.	nne.	cloudy.
S. S. Rhynland, Antwerp, Belgium	29.65	753.1	54	12.2		sse.			6		6		s.					fair.
S. S. Pennland, N. 49° 53′, W. 7° 46′			57	13.9	81	nw.			6		4?		w.	6 h'r	6 h'r	hv'y	w.	cloudy?
S. S. Vaderland, N. 39° 58′, W. 70° 40′	30.50	774.7	56	13.3		ne.			5		6		ne.	0	0	mod	ne.	fair.
S. S. Waesland, N. 41° 50′, W. 61° 00′	30.28	769.1	52	11.1		nne.			6		9		nne.	0	0	mod	nne.	cloudy.
S. S. Leerdam, N. 47° 26′, W. 45° 58′*	29.99	761.8	47.1	8.4	89	nw.			6		6		nw.	1 h'r	1 h'r	6	nw.	
S. S. Zaandam, N. 45° 36′, W. 45° —′	29.97	761.2	51.1	10.6	86	w;ne.			6–7		10		wnw.	3 h'r	3 h'r	long	wnw.	cloudy
S. S. Caracas, N. 19° 02′ W. 67° 58′ *†	30.01	762.2	83.5	28.6	81	e.			4		5		ese.	0	0	mod.	ne.	fair.
S. S. W. A. Scholten, New York, N. Y	30.60	777.2	43.5	6.4	67	ne.			4		1		ne.	0	0			
S. S. Valencia, N. 25° 49′, W. 69° 41′*†	30.09	764.3	81.5	27.6	83	ne.			3		4		ne.	2 h'r	2 h'r	mod.	ne.	squally.
S. S. State of Indiana, N. 41° 34′ A′ 64° 30′ *†	30.35	770.9	48	8.9		ne.			6		5		ne.	0	0	mod.	ne.	fair.
S. S. State of Nebraska, N. 47° 23′, W. 46° 34′*†	29.92	760.0	41	5.0		nnw.			6		3		n.	0	0	mod	nnw.	fair.
S. S. Thingvalla, N. 41° 44′, 64° 45′†	34.44?	773.2?	47.3	8.5		nne.			3		5		nne.	2 h'r	2 h'r	h'vy	nne.	fair.
S. S. Otranto, N. 40° 23′, W. 67° 32′			51	10.6		n.			6		8		n.	0	0	long	n.	cloudy.
S. S. Romano, N. 39° 33′, W. 67° 58′			54	12.2		nne.			7		8		nne.	rain	rain	high	nne.	
S. S. Salerno, N. 49° 40′, W. 36° 20′*†	29.55	750.6	49	9.4		w.			5		7		w.	0.5	13.	h'vy	wnw.	raining.
S. S. Ontario, N. 55° 56′ W. 30° 50′	29.18	741.2	37	2.8		wnw.			6		4		nw.	2 h'r	2 h'r	mod.	var.	squally.
S. S. Quebec, N. 49° 21′, W. 65° 34′	30.44	773.2	34	1.1		wnw			3		3		ene.	0	0	sm'h		clear.
S. S. Lake Huron, N. 55° 36′, W. 36° 57′	29.25	742.9	34	1.1		wnw.			4		5		wnw.	6 h'r	6 h'r	long	n;nw.	squally.
S. S. Lake Manitoba, N. 55° 04′, W. 36° 30′	29.33	745.0	42	5.6		nw.			5		5		nw.	3 h'r	3 h'r	mod	nw.	fair.
S. S. Daniel Steinmann, Boston, Mass			46	7.8		nw.			4		0			0	0			
S. S. Britannic, N. 49° 12′, W. 37° 31′†	29.56	750.8	49	9.4		nw.			6		4		w.	2 h'r	2 h'r	high	nw.	d. clouds
S. S. Celtic, Liverpool, Eng	29.22	742.2	57	13.9		sw.			5		2?		sw.	10 h'r	10 h'r	sm'h		heavy rain.
S. S. Germanic, N. 40° 52′, W. 58° 48′*†	30.22	767.6	60	15.6		n			6		10		ne.	5 h'r	5 h'r	r'gh	nne.	gloomy
Bk. Arda, N. 22° 38′, W. 40° 30′						se.			2		5?		se.	shr's	shr's	mod.	se.	cloudy?
Bk. Ariadne, N. 59° 42′, W. 2° 16′			51	10.6	93	se.			6		7		se.	0	0	high	e.	fair.
Bg. Abbie Clifford, N. 15° 40′, W. 60° 25′†	30.02	762.5	83	28.3		ene.			4		4		ese.	0	0	mod.	ne.	fair.
Schr. Arthur Burton, Charleston, S. C. †	30.35	770.9				ne.			7		10		ne.	0	0	chop	ne.	cloudy.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.65	778.5	52	11.1		ne.			3									clear.
S. S. Antonio Lopez, Cadiz, Spain*	30.19	766.8	69.5	20.8	100	nw.			2		4			0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Alcira N. 36° 09′, W. 72° 53′	30.34	770.6	61	16.1	.....	nne.	.....	.....	6	.....	10	.....	nne.	0	0	cross	var.	cloudy.
Schr. Adda Doane, N. 6° 55′, W. 57° 50′ *†	29.96	761.0	.....	.....	.....	n.	.....	.....	2	.....	3	.....	e.	0	0	sm'h	.....	clear.
Bg. Belle of the Bay, N. 27° 14°, W. 91° 59′ †..	30.03	762.7	.....	.....	.....	ene.	.....	.....	5	.....	6	.....	ese.	0	0	short	se.	fair.
S. S. Benledi, N. 37° —′, W. 9° —′*	30.19	766.8	65	18.3	76	nw.	.....	.....	3-4	.....	0	.....	.....	0	0	long	nw.	fine.
S. S. Burswell, N. 36° 28′, E. 13° 13*†	30.21	767.3	82	27.8	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
Bk. Ceylon, N. 7° 07′, W. 28° 51′†	29.95	760.7	85	29.4	87	ese.	.....	.....	3	.....	5	.....	sse.	light	light	long	sse.	clear.
Schr. Clotilde, N. 24° 57′, W. 79° 05 †	30.06	763.5	82	27.8	.....	e.	.....	.....	4	.....	5	.....	e.	3 h'r	3 h'r	sm'h	.....	fair.
Schr. C. R. Flint, Demerara, British Guiana †...	30.01	762.2	82	27.8	.....	.....	.....	.....	.....	.....	3	.....	e.	0	0	.....	.....	clear.
S. S. D. J. Foley, Port Maria, Jamaica, W. I.*†	29.95	760.7	80	20.7	87	w.	.....	.....	1	.....	2	.....	e.	1 h'r	1 h'r	.....	.....	clear.
Bk. Diamant, N. 52° 15′, E. 2° 45′	29.51	749.5	58.3	14.6	84	ssw.	.....	.....	8	.....	8	.....	sw.	5½h'r	5½h'r	6	sw.	cloudy.
S. Dynomene, N. 7° 18′, W. 22° 12′	29.96	761.0	85	29.4	79	ese.	.....	.....	1	.....	5	.....	.....	mod.	mod.	mod.	se.	d. clouds
S. E. J. Spicer, N. 43° 52′, W. 42° 05′	29.87	758.7	66	18.9	89	nnw.	.....	.....	6	.....	10	.....	nw.	12 h'r	12 h'r	h'vy	nw.	heavy rain.
Bk. E. D. Bigelow, Galveston, Texas	.....	.....	77	25.0	.....	ene.	.....	.....	4	.....	.....	.....	.....	0	0	.....	.....	fair.
S. Festina Lente, N. 51° 04′, W. 28° 20′	29.40	746.7	49	9.4	.....	nw.	.....	.....	3	.....	3	.....	nw.	6 h'r	6 h'r	mod.	var.	clear.
U. S. Fish. Com. S. S. Fish Hawk, Woods Holl, Mass†	30.50†	774.7†	43	6.1	79	nne.	.....	.....	3	.....	9	.....	ne.	0.01	0.3	.....	.....	cloudy.
Bg. George, N. 39° 10′, W. 73° 20′ *†	30.50	774.7	57	13.9	.....	nne.	.....	.....	3	.....	10	.....	ne.	0	0	r'gh	nne.	cloudy.
Bk. Galeon, N. 22° 11′, W. 59° 50′†	30.09	764.3	82	27.8	.....	ese.	.....	.....	2	.....	3	.....	.....	0	0	sm'h	ne.	blue sky.
Bk. Hattie G. McFarland, N. 34° 16′, W. 67° 43′†	30.25	768.3	70	21.1	.....	ne.	.....	.....	7	.....	8	.....	ne.	8 h'r	8 h'r	rg'h	ne.	
S Hedwig, N. 24° 48′, W. 67° 03′	30.10	764.4	79.5	26.4	90	ne.	.....	.....	4	.....	7	.....	ne; e.	½h'r	½h'r	3	ne	
Bk. Heinrich & Tonio, N. 48° 47′, W. 14° 45′ †	29.48	748.8	60	15.6	.....	wnw.	.....	.....	3	.....	6	.....	sw.	0	0	high	nw.	fair.
Schr. Isabel Alberto, N. 26° 42′, W. 79° 41′†	30.11	764.8	.....	.....	.....	ene.	.....	.....	6	.....	10	.....	e.	h'vy	h'vy	high	n.	stormy.
Schr. Jennie N. Huddell, Wilmington, N. C.†	30.37	771.4	63	17.2	83	n	.....	.....	3	.....	8	.....	nne.	0	0	.....	.....	cloudy.
Bk. John H. Pearson, N. 30° 47′, W. 17° 16′	.....	.....	.....	.....	.....	ne.	.....	.....	4	.....	.....	.....	ne.	0	0	h'vy	nnw.	clear.
Schr. John Bracewell, New London, Conn.	.....	.....	.....	.....	.....	nne.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. Josefa, Little Glace Bay, N. S.†	30.55	776.0	.....	.....	.....	nnw.	.....	.....	6	.....	8	.....	n.	0	0	.....	.....	cloudy.
Bk. Lady Hincks, N. 42° 00′, W. 68° 40′*†	30.50	774.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	clear.
Bg. Lillian, N. 32° 38′. W. 73° 22′ †..	30.22	767.6	74	23.3	.....	ne.	.....	.....	6	.....	10	.....	ne.	½ h'r	½ h'r	r'gh	ne.	cloudy.
S. S. Madrid, N. 39° 57′, E. 26° 09′ †	30.10	764.5	68	20.0	84	ne.	.....	.....	5	.....	5	.....	ne.	2 h'r	2 h'r	sm'h	.....	fair.
Bk. Matilda C. Smith, N. 47° 49′, W. 14° 27′*†	29.52	749.8	.....	.....	.....	wsw.	.....	.....	6	.....	7	.....	wsw.	sh'rs	sh'rs	r'gh	wnw.	threatening.
Bk. Matthias, N. 39° 28′, W. 44° 29′ *†	30.14	765.5	72.0	22.2	.....	sw.	.....	.....	6	.....	4	.....	sw.	0	0	3	sw.	fair.
Schr. Norena, N. 32° 07′, W. 63° 54′	.....	.....	.....	.....	.....	sse.	.....	.....	3	.....	3	.....	s.	0	0	mod.	wnw.	fine.
Bk. National Eagle, N. 36° 54′, E. 11° 59′.	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	2	.....	n.	0	0	sm'h	.....	fair.
S. S. Radnorshire, N. 32° 06′, E. 31° 50′*†.	30.10	764.5	.....	.....	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	nw.	clear.
Schr. Rollin Sanford, Milton, Fla.†	30.15	765.8	.....	.....	.....	n.	.....	.....	2	.....	8	.....	nw.	0	0	.....	.....	cloudy
Bg. Rising Sun, Barbadoes, W. I.†	30.00	762.0	82	27.8	.....	e.	.....	.....	4	.....	10	.....	e.	h'vy	h'vy	.....	.....	squally.
Bk. Rosalie, N. 6° 59′, W. 27° 26′*†	29.93	760.2	.....	.....	.....	ne.	.....	.....	3	.....	10	.....	ene.	4 h'r	4 h'r	light	se.	raining.
Bk. Saga, N. 53° 11′, E. 3° 22′ *†	29.43	747.5	58	14.4	.....	wsw.	.....	.....	7-8	.....	7	.....	sw.	6 h'r	6 h'r	r'gh	ssw.	cloudy.
S. Salisbury, N. 35° 09′, W. 6° 02′	30.13	765.4	70.7	21.5	83	calm	.....	.....	0	2 c	0	ne.	.....	0	0	mod.	ne.	clear.
Bgt. Sunlight, N. 38° 25′, W 71° 25′ †	30.33	770.4	.....	.....	.....	ene.	.....	.....	6	.....	8	.....	ene.	4 h'r	4 h'r	r'gh	ene.	cloudy.
Bk. Samuel B. Hale, N. 31° 08′, W. 32° 30′*†	30.35	770.9	.....	.....	.....	se.	.....	.....	4	.....	.....	.....	se.	0	0	long	n.	clear.
Bk. Sunbeam, N. 50° 28′, W. 1° 10′ †	29.40	748.3	59	15.0	88	sw.	.....	.....	8	.....	9	.....	sw.	6 h'r	6 h'r	r'gh	sw.	cloudy.
S. St. Francis, N. 35° 07′, W. 45° 00′ *†	30.36	771.1	78	25.6	.....	ssw.	.....	.....	3	.....	1	.....	sw.	0	0	mod.	ne.	fair
Schr. Walter L. Plummer, N. 23° 55′, W. 42° 12′*†	30.13	765.3	.....	.....	.....	ese.	.....	.....	3	.....	10	.....	se.	.....	.....	mod	se.	rainy.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, S. 34° 15′, W. 52° 42′	30.04	763.0	67.2	19.6	87	ne.	.....	.....	5	.....	7	nne.	.....	.....	.....	3	ne.	squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.97	761.2	65	18.3	94	sw.	.....	.....	1-3	.....	7	w.	.....	.....	.....	.....	.....	d clouds.
H. M. S. Sylvia, Montevideo, Uruguay...	29.96	761.0	66	18.9	94	nne.	.....	.....	3-5	.....	7	calm	.....	.....	.....	.....	.....	squally.
H. P. M. S. Rainha de Portugal, Banana, Guinea ..	29.93	760.2	79.7	26.5	75	s.	.....	.....	3	.....	9	.....	s.	0	0	.....	.....	overcast.
U. S. S. Brooklyn, S. 36° 00′, W. 19° 49′*	30.08	764.0	54	12 2	80	ese.	24	10.7	.....	.....	10	.....	se.	0	0	r'gh	se.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.05	763.3	65	18.3	89	nne.	.....	.....	3	.....	2	.....	ne.	.....	.....	sm'h	.....	fair.
S. S. Teniers, S. 30° 27′, W. 49° 30′	30.15	765.8	69.1	20.6	77	nne.	.....	.....	7	.....	2 k	.....	.....	0	0	4	ne.	blue sky.
S. S. Sirius, S. 17° 42′, W. 38° 22′	30.07	763.8	.....	.....	.....	ese.	.....	.....	3	.....	10	.....	ese.	0	0	mod.	ese.	cloudy.
Bk. Alpheus Marshall, S. 7° 18′, W. 23° 26′*†	29.88	758.9	78	25.6	91	ese.	.....	.....	4	.....	8	.....	ese.	c	0	light	ese.	fair
Bk. Adelaide, S. 19° 21′, W. 37° 57′ *†	30.19	760.8	75	23.9	.....	ese.	.....	.....	6	.....	5	.....	se.	3 h'r	3 h'r	r'gh	se.	fair.
S. David Crockett, S. 30° 05′, W. 27° 28′*	30.07	763.8	64	17.8	73	se.	.....	.....	6	.....	5	.....	se.	8 h'r	8 h'r	r'gh	se.	raining.
Bk. E. L. Pettingill, S. 55° 22′. W. 64° 28 *†	29.30	744.2	50	10.0	.....	nw.	.....	.....	5	.....	3	.....	.....	0	0	sm'h	.....	hazy.
Bk. Grey Eagle, S. 23° 06′, W. 40° 45′ *†	30.00	762.0	.....	.....	.....	e.	.....	.....	2	.....	4	.....	ese.	1 h'r	1 h'r	short	se.	fair.
Bg. John Wesley, Natal, Brazil.*†	29.86	758.4	81	27.2	.....	ene.	.....	.....	3	.....	2	.....	ene.	½h'r	½h'r	.....	.....	clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	30.09	764.3	.....	.....	.....	nnw.	.....	.....	2	.....	2	.....	.....	0	0	.....	.....	clear
S. S. Mendoza, S. 12° 00′, W. 32° 19′ †	30.10	764.5	.....	.....	.....	s	.....	.....	2	.....	5	.....	se.	0	0	sm'h	s.	
Bk. Mohican, S. 39° 45′, E 11° 15′	29.86	758.4	55	12.8	.....	sw.	.....	.....	5	.....	4	.....	wsw.	12 h'r	12 h'r	mod.	sw.	fair.
Bk. Pilgrim, S. 4° 03′, W. 26° 40′*†	30.00	762.0	.....	.....	.....	e.	.....	.....	3	.....	1	.....	e.	0	0	mod.	e.	clear.
Bgt. Willie, Montevideo, Uruguay*†	29.92	760.0	70	21.1	.....	nne.	.....	.....	5	.....	2	.....	nne.	0	0	sm'h	.....	clear.
Bk. Childwall, S. 21° 11′, W. 34° 51′*	30.06	763.5	75	23.9	.....	se.	.....	.....	4	.....	7	.....	se.	0	0	light	se.	cloudy.
Bk. Achille F, S. 12° —′, W. 33° 45′ †	29.99	761.7	77	25.0	.....	nne.	.....	.....	3	.....	9	.....	se.	4 h'r	4 h'r	long	s.	cloudy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.93	760.2	70	21.1	90	calm	.....	.....	0	.....	1	ne.	.....	.....	.....	.....	.....	blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.94	760.5	81	27.2	87	calm	.....	.....	0	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Flying Fish, N. 32° 45′, E. 129° 52′	30.10	764.5	70	21.1	75	nne.	.....	.....	1	.....	4	nne.	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.15	765.8	73	22.8	.....	ne.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
H. P. M. S. Tamega, Canton, China	30.05	763.2	80.6	27.0	84	s.	.....	.....	2	.....	0	.....	.....	¼ h'r	¼ h'r	.....	.....	blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.08?	764.0?	65.5	18.6	97	calm	.....	.....	0	.....	8	.....	e.	0.09	2.3	.....	.....	cloudy.
U. S. S. Essex, Nagasaki, Japan	30.08	764.0	72	22.2	85	ene.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	clear.
U. S. S. Hartford, Corinto, Nicaragua*	29.86	758.4	74	23.3	.....	var.	.....	.....	2	.....	8	.....	.....	5 h'r	5 h'r	sm'h	.....	cloudy
U. S. S. Juniata, Canton, China	30.06	763.5	81	27.2	96	ese.	.....	.....	2	.....	0	.....	.....	light	light	.....	.....	clear.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.14	765.5	66	18.9	89	calm	.....	.....	0	.....	5	.....	calm	.....	.....	.....	.....	fair.
U. S. S. Pensacola, Yokohama, Japan *	29.93	760.2	70	21.1	90	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	.....	cloudy.
U. S. S. Ranger, Mare Island, Cal	29.98	761.5	54	12.2	80	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Richmond, Yokohama, Japan	29.96	761.0	68	20.0	95	calm	.....	.....	0	.....	2	.....	sse.	0	0	.....	.....	clear.
S. S. Oceanic, N. 36° 19′, E. 148° 32′	29.98	761.5	70	21.1	90	sw.	.....	.....	4	.....	6	.....	s.	0	0	3	.....	fair.
S. S. Columbia, N. 40° 48′, W. 124° 30′†	29.96	761.0	52	11.1	89	nnw.	.....	.....	4	.....	8?	.....	nnw.	.....	.....	mod.	n.	clear.?
S. S. Ancon, Point Buchon, Cal.†	29.94	760.5	57	13.9	81	nw.	.....	.....	2	.....	0	.....	.....	0	0	light	nw.	fair.
S. S. Dakota, N. 40° 37′, W. 124° 36′†	29.95	760.7	57	13.9	94	nw.	.....	.....	1	.....	1c?	.....	nw.	0	0	mod.	nnw.	clear ?
S. S. Orizaba, N. 37° 12′, W. (119 ?) 40′*†	29.93	760.2	56	13.3	75	w.	.....	.....	1	.....	0	.....	.....	0	0	mod.	nw.	clear.
S. S. Queen of the Pacific, Astoria, Oregon†	29.97	761.2	51	10.6	94	se.	.....	.....	2	.....	9	.....	.....	1 h'r	1 h'r	.....	.....	cloudy.
S. S. Victoria, N. 44° 12′, W. 124° 51′ †	29.98	761.5	57	13.9	76	nne.	.....	.....	5	.....	8	.....	nne.	.....	.....	mod.	n.	cloudy.
S. S. City of Pekin, N. 28° 27′, E. 127° 26′†	30.15	765.8	78	25.6	78	ne.	.....	.....	4	.....	5	.....	.....	0	0	sm'h	.....	fair.
S. S. City of Tokio, N. 40° 58′, W. 152° 54′	.....	.....	63	17.2	83	ese.	.....	.....	2	.....	10	.....	ese.	4 h'r	4 h'r	mod.	nw.	fair.
S. S. Colima, Acajutla, San Salvador†	29.92	760.0	73	22.8	100	sse.	.....	.....	4	.....	10	.....	sse.	2.38	60.5	r'gh	sse.	raining.
S. S. Granada, N. 27° 13′, W. 114° 30′†	29.94	760.5	79	26.1	83	nw.	.....	.....	2	.....	0	.....	.....	0	0	mod.	wnw.	clear.
S. S. San Blas, N. 11° 16′, W. 87° 39′†	29.91	759.7	74	23.3	.....	w.	.....	.....	5	.....	10	.....	wsw.	3 h'r	3 h'r	.....	wsw.	overcast.
S. S. San Juan, N. 35° 20′, W. 121° 25′	.....	.....	58	14.4	.....	nw.	.....	.....	4	2 c	.....	nw.	.....	0	0	light	wnw.	fine.
S.S. Alameda, N. 36° 21′, W. 125° 30′ †	30.00	762.0	57	13.9	.....	nnw.	.....	.....	4	.....	5	.....	nw.	0	0	light	nw.	fine.
S. Parker M. Whitmore, N. 32° 09′, W. 124° 00′ *†	29.91	759.7	61	16.1	.....	nne.	.....	.....	5	.....	10	.....	nw.	0	0	long	nnw.	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.90	759.4	83.3	28.5	83	se.	.....	.....	4	.....	9	.....	.....	.....	.....	sm'h	.....	misty.
H. M. S. Magpie, S. 6° 05′, E. 106° 48′	29.87	758.7	83.6	28.7	75	wnw.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Nelson, Sydney, N.S. W	29.95	760.7	63	17.2	?	sw.	.....	.....	1	.....	4	sw.	.....	.....	.....	.....	.....	d. clouds.
U. S. S. Iroquois, Callao, Peru	30.09	764.3	63	17.2	89	calm	.....	.....	0	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.03	762.7	56	13.3	81	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	overcast.
U. S. S. Onward, Callao, Peru*†	30.13	765.3	61	16.1	94	s.	.....	.....	1	.....	10	.....	s.	.....	.....	sm'h	.....	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Wachusetts, Coquimbo, Chili*	30.04	763.0	56	13.3	94	calm	.....	.....	0	.....	8	.....	.....	.....	.....	sm'h	.....	cloudy.
S. S. Australia, Sydney, S. S. W.	29.82	757.4	68	20.0	90	ne.	.....	.....	2	.....	3?	.....	ne.	0	0	.....	.....	cloudy.†
S. S. City of New York, S. 36° 12′, E. 174° 55′†	30.11	764.8	56	13.3	75	nw.	.....	.....	4	.....	10	.....	nw.	1 h'r	1 h'r	sm'h	.....	cloudy.
S. S. City of Sydney, S. 5° 45′, W. 168° 52′*†	29.87	758.7	80	26.7	78	ene.	.....	.....	3	8 ck	.....	ene.	.....	.....	.....	light	ese.	cloudy.
S. E. B. Sutton, S. 3° 40′, W. 127° 40′ *†	29.95	760.7	76	24.4	91	e	.....	.....	3	.....	5	.....	se.	0	0	mod.	ese.	fair.
S. Sovereign of the Seas, S. 2° 06′. W. 112° 18′ *†	30.12	765.0	75	23.9	90	se.	.....	.....	3	.....	3	.....	se	0	0	mod.	sse.	fair.
S. Armenia, S. 36° 46′ W. 121° 20′ *	30.33	770.4	56	13.3	81	e.	.....	.....	3	.....	8	.....	.....	0	0	sm'h	s.	cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.13	765.3	65	18.3	.....	se.	.....	.....	5	.....	10	.....	se.	.....	.....	long	se.	overcast.
S. Storm King, S. 10° 46′, W. 123° 43′ *†	30.03	762.7	.....	.....	.....	ese.	.....	.....	5	.....	5	.....	ese.	1 h'r	1 h'r	h'vy	s;se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.91	759.7	79	26.1	82	calm	.....	.....	0	.....	2	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.98	761.5	80	26.7	96	s.	.....	.....	1	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab river, Turkey	30.04	763.0	88.5	31.4	52	nnw.	.....	.....	1	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Bore, S. 34° 56′, E. 21° 22′ *†	30.32	770.1	68	20.0	.....	ssw.	.....	.....	3	.....	5	.....	sw.	0	0	sm'h	sw.	fair.
S. Frank N. Thayer, S. 33° 51′, E. 28° 50′*†	29.82	757.4	71.5	21.9	90	nne.	.....	.....	6	.....	0	.....	.....	0	0	r'gh	nne.	blue sky.
Bk. Great Surgeon, S. 25° 26′, E. 89° 53′ *†	30.04	763.0	58	14.4	.....	sw.	.....	.....	4	.....	8	.....	sw.	1 h'r	1 h'r	mod.	sw.	cloudy.
S. S. Galatia, N. 10° 28′, E. 68° 42′†	29.75	755.6	80	26.7	96	ssw.	.....	.....	6	.....	6	.....	sw.	6 h'r	6 h'r	r'gh	sw.	stormy.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 17, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.20	767.0	70.5	21.4	87	e.			1		0			0	0	clear	Roziere.
Algiers			30.19	766.8	70.5	21.4	67	nw.			2		0			0	0	clear	Thève.
La Calle			30.20	767.1	74.1	23.4	72	nw.			3		2			0	0	fair	Fonfrède.
Tunis			30.23	767.8	73.4	23.0	59	n.			2		1			0	0	very fair	Delord.
Saida			30.23	767.8															Pérés.
Tebessa			30.26	768.5	68.0	20.0	81	sw.			1		1			0	0	very fair	St. Martin.
Geriville					69.8	21.0	20	n.			1		3			inap.	inap.	pretty fair	Forfert.
Laghouat			30.26	768.5	74.8	23.8	36	n.			1		0			0	0	clear	Abraham.
Biskra			30.25	768.4	72.3	22.4	65	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.07	763.8	54.6	12.6	71	se.	7	3.1			1			0.042	1.1	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.96	761.0	30.05	763.3	49.8	9.9	86	s.	6	2.7			2			0.07	1.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.4	30.05	763.2	62.2	16.8	51	sw.			5		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.7	29.96	761.0	58.3	14.6	61	sw.	1.3	0.6			7			0	0		Dr. Wierzbiski
Eperies	29.20	741.7	30.08	763.9	57.6	14.2	72	s.			4		6 ks		n	0	0		Julius Mikolik.
Gratz	28.74	730.0	29.98	761.4	58.1	14.5	76	e.			1		0			0.433	11.0		Andreas Rospini.
Hermannstadt	28.69	728.7	30.12	765.0	56.8	13.8	50	se.			1		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.7	29.96	760.9	50.2	10.1	91	ene.			1		8			0	0		The Staff.
Lemberg	29.10	739.2	30.10	764.5	52.0	11.1	57	s.			5		0			0	0		Dr. T. Stanecki.
Pola	30.04	763.0	30.15	765.8	64.9	18.3	87	wsw.			3		2			0	0		I. R. Hydrographic Office.
Szathmar	29.66	753.3	30.12	765.0	58.6	14.8	59	w.			3		1			0	0		Joseph Midlinszky, S. J
Szegedin	29.82	757.3	30.10	764.4	60.1	15.6	62	s.			2		4			0	0		Karl Stancel.
Trieste	30.08	764.0	30.18	766.5	67.1	19.5	64	sw.			1		10			0	0		Royal Academy.
Vienna	29.29	744.0	30.01	762.3	52.2	11.2	90	se.			2		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	28.92	734.6	29.02	737.1	50.4	10.2	51	wsw.	22	9.8			4			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.04	737.6	29.28	743.7	50.5	10.3	70	sw.	20	8.9			5					d. clouds	S. Gall.
Bidston, Liverpool Obs'y			29.38	746.2	52.0	11.1	53	wsw.	37	16.5			3					blue sky	John Hartnup.
Bolton, Sharples	28.85	732.8	29.38	746.2	50.3	10.2	68	sw.	30	13.4			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	28.98	736.1	29.38	746.2	48.7	9.3	68	nw.			4		6			0.71	18.0	raining	McLandsborough & Preston.
Cardington	29.32	744.7	29.43	747.5	58.0	14.4	77	W.			6.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.38	746.2	29.55	750.6	57.5	14.2	89	s.			3		7			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.42	747.3	29.64	752.8	56.3	13.5	82	sw.			5		6					d. clouds	The Staff.
Fort Napier, Natal	27.44	697.0	29.66	753.4	80.5	26.9	48	e.			3		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.73	755.1	29.96	761.0	83	28.3	71	e.			3		6					raining	J. W. Smith.
Galway, Queen's College	29.26	743.2	29.30	744.2	50	10.0	79	sw.			4		8			0.65	16.5	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.19	766.8	30.24	768.1	71.0	21.7	90	e.			2		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	28.95	735.3	29.16	740.7	46.1	7.8	73	sw.			5		5					squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.39	746.5	29.56	750.8	53.6	12.0	74	wsw.			4		6					d. clouds	The Staff.
Guernsey	29.42	747.3	29.72	754.9	57.0	13.9	85	wsw.			3		10					overcast	A. Collenette, F. M. S
Kew, Observatory	29.54	750.3	29.57	751.1	54.6	12.6	64	W.	14	6.3			6					d. clouds	The Staff.
Leicester, Museum	29.22	742.2	29.47	748.5	53.0	11.7	55	W.			4		4					d. clouds	J. C. Smith.
Malta, Mediterranean	30.14	765.5	30.22	767.6	73.2	22.9	68	nw.			3		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	81.0	27.2	77	e.			2		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	28.96	735.0	29.47	748.5	50.2	10.1	70	sw.			6		2					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.31	744.5	29.54	750.3	55.0	12.8	57	sw.			6		6					d. clouds	The Staff.
Plymouth	29.56	750.8	29.63	752.6	55.6	13.1	90	wsw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	28.76	730.5	28.86	733.0	47.8	8.8	67						3					hailing	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.05	763.3	30.11	764.8	60.2	15.7	83	n.			2		10					misty	W. H. Lyne.
Sheffield	29.15	740.4	29.43	747.5	53.7	12.1	69	wsw.			4		1			0.63	16.0	blue sky	W. F. Cooper.
Silloth Rectory	29.22	742.2	29.25	742.9	50.2	10.1	78	w.			5		3			0.260	6.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.38	746.2	48.5	9.2	67	w.	25	11.2			10			blank	blank	overcast	Rev. S. J. Perry.
Strathfield Turgiss					55.3	12.9	68	W.			1.6		7					squally	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.53	750.0	29.60	751.8	60	15.6	82	sw.			7		10					gloomy	W. Newcombe.
Valencia, Observatory	29.22	742.2	29.24	742.7	52.9	11.6	90	s.	31	13.9			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.85	758.2	30.25	768.3	70.9	21.6	65	nw.	6.2	2.8		0	3 n		nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.54	775.7	30.57	776.5	34.0	1.1		calm	0	0		10 ck	0	n.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.46	773.7	30.51	774.9	34	1.1	71	w.	6	2.7		0	8 s		nw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.50	774.7	30.57	776.5	27	— 2.8	77	sw.	2	0.9		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.45	773.4	30.66	778.7	26.5	— 3.1	95	n.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.50	774.7	30.55	776.0	31.0	— 0.6		W.			2		10 s			0	0	overcast	H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.54	775.7	30.56	776.2	34	1.1	79	wsw.	25	11.2		2 cs	2 k	sw.	sw.	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.0	29.88	758.9	41	5.0	100	se.	20	8.9			10 n		s.	0.43	10.9	raining	James Stewart.
Fredericton, N. B.	30.57	776.5	30.64	778.2	26.3	— 3.2	84	nw.	4	1.8		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.54	775.7	30.60	777.2	34	1.1	69	n.	13	5.8		5 k	0		n.	0	0	fair	J. Chipman Seeley
Granton, Ontario	29.44	747.8	30.61	777.5	31.0	— 0.6	79	e.	5	2.2		1 c	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.41	772.4	30.55	776.0	33	0.6	85	W.	7	3.1		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	30.17	766.3	30.58	776.7	34.7	1.5	89	ne.			2	0	0			0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.30	771.1	30.71	780.0	30	— 1.1	96	n.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.37	771.4	30.41	772.4	39.0	3.9	78	nw.			5	7 k	0		nw.	0	0		C. H. Rigby.
London, Ontario	29.65	753.1	30.61	777.5	32.3	0.2	63	ne.			2	0	0			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T.	27.35	694.7	29.64	752.8	37	2.8	96	calm	0	0			10 n			0.08	2.0	light rain	John Ewart.
Minnedosa, N. W. T	27.84	707.1	29.75	755.6	39	3.9	96	se.	20	8.9			10 n		se.	0.39	9.9	light rain	Rev. J. M. Wellwood.
Montreal, Quebec*	30.44	773.2	30.66	778.7	31	— 0.6	85	sw.	7	3.1		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.45	773.4	30.70	779.8	20.8	— 6.2	96	s.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.93	760.2	30.67	779.0	26	— 3.3	88	calm	0	0		0	0			0	0	clear	Rev. E. Mosley.
Peterboro, Ontario	29.90	759.4	30.68	779.3	52.7	0.4	67	ne.			1	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.61	752.1	30.33	770.4	44	6.7	80	se.	8	3.6			10 s			0.12	3.0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.86	758.4	30.59	777.0	34	1.1	89	ne.	10	4.5		0	0			0	0	clear	B. Morgan
Port Stanley, Ontario	29.88	758.9	30.56	776.2	34	1.1	79	ne.	12	5.4		0	0			0	0	clear	M. Payne.
Qu Appelle, N. W. T	27.35	694.7	29.60	751.8	41	5.0	96	e.	12	5.4			10 n		calm	0.03	0.8	foggy	Leslie Gordon.
Quebec, Quebec*	30.26	768.6	30.64	778.2	29	— 1.7	100	calm	0	0		2 k	0	calm		0	0	fair	Capt. Asne, R. N.
Rockliffe, Ontario*	30.17	766.3	30.67	779.0	24	— 4.4	70	calm	0	0			10 ks		nw.	0	0	cloudy	N. H. McIntyre.
St. Andrews, N. B	30.50	776.2	30.61	777.5	30	— 1.1	77	n.	4	1.8		0	0			0	0	clear	
St. John, N. B	30.45	773.4	30.60	777.2	30.0	— 1.1	81	nw.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F.	30.07	763.8	30.33	770.4	34	1.1	90	n.			1	0	2 ks			0	0	fair	J. Higgins.
St. Pierre, N. F.			30.28	769.0	38.5	3.6		calm			2								The Commandant.
Saugeen, Ontario*	29.84	757.9	30.60	777.2	30	— 1.1	77	e.	9	4.0		0	0			0	0	clear	
Stratford, Ontario	29.25	742.9	30.61	777.5	30.8	— 0.7	84	se.	9.0	4.0		0	0			0	0	blue sky	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CANADIAN.—Continued.																			
S. W. Point, Anticosti	30.36	771.1	30.39	771.9	37	2.8	89	nw.			5	2 k	5 s	w.	w.	0	0	cloudy	Miss Grace Pope.
Sydney, C. B.	30.39	771.9	30.46	773.7	39	3.9	82	sw.	4	1.8			10 ks		nw.	0	0	cloudy	[illegible], C. E.
Toronto, Ontario*	30.26	768.6	30.66	778.7	33	0.6	81	ne.	5	2.2		0	2 ks			0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.53	750.0	30.67	779.0	29.7	— 1.3	86	ne.	7	3.1		2 cs	0	nw.		0	0	blue sky	Prof. N Wolverton, M.A.
Yarmouth, N.S.*	30.52	775.2	30.59	777.0	35	1.7	85	ne.	4	1.8		0	2 k		ne.	0	0	fair	Lt. F. E. Wilmot, R. N.
CAPE OF GOOD HOPE.																			
Cape St. Francis Lt.House	29.92	760.0	29.95	760.7	64.0	17.8	78	sw.	16.7	7.5			10 n			0.050	1.3	cloudy	I. Garfelt.
Cape Town	30.04	763.0			64.0	17.8	59	se.					2 k			0	0		J. T. Eustace.
Springbok Fontein	27.88	708.1			65	18.3	52									0	0		
CHILIAN.																			
Coquimbo	29.99	761.7	30.07	763.7	55.4	13.0	88	e.			1	6 cs	0					fair	Samuel Redolez.
Iquique	30.02	762.4	30.04	763.1	63.5	17.5	66	sw.			3							cloudy	Rafael Moreno.
Niebla	29.47	748.6	29.58	751.3	48.9	9.4	86	w.			1	0	2		w.	1.024	26.0	raining	Federico Kühling.
Punta Caldera	30.02	762.5	30.11	764.7	56.7	13.7	84	nw.			6	c	8 n	nw.	nw.			fair	Manuel Tobar.
Punta Corona	29.71	754.7	29.90	759.5				nw.			5	3 ck?	0	n.		0.063	1.6	cloudy?	Francisco Alvarado.
Valparaiso	29.93	760.3	30.02	762.5	54.3	12.4	80	s.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.38	644.6										2 ck	0	wsw.		0	0	clear	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.11	764.7	30.13	765.4	65.8	18.8	91	se.	7.8	3.5									M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.27	743.4	29.32	744.6	56.5	13.6	92	s.	18	8			9						Oversergent Fischer.
Fanoe	29.05	737.8	29.07	738.3	53.8	12.1	98	sw.			7		9					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.45	747.9	29.49	749.0	21.9	— 5.6	73	ne.			4		8						S. Kleinschmidt.
Jacobshavn, Greenland	29.50	749.3	29.55	750.5	7.3	—13.7		calm			0		8						
Stykkisholm, Iceland	28.64	727.5	28.69	728.6	40.5	4.7	87	ne.			9		10						A. O. Thorlacius.
Thorshavn	28.47	723.0	28.49	723.6	47.8	8.8	86	ssw.	29	13			7					raining	Overloerer Bergh.
Vestervig	28.86	733.1	28.95	735.4	52.0	11.1	95	se.			6		10					raining	Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.93	760.2			78.8	26.0		n.	4.3	1.9			6 ks			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.56	750.9	30.10	767.1	64.4	18	80	w.			1		10	w.	w.	0.055	1.4	raining	M. Labroue, Director.
Alençon, Normal School	29.39	746.5	29.94	760.5	60.8	16	98	sw.			1				ne	0.504	12.8		M. Nicot, Director.
Avignon, Normal School	30.10	764.4	30.17	766.4	69.4	20.8	78	se.			1		8		s.	0	0	very cloudy	M. Giraud, Director.
Bar-sur-Seine	29.34	745.3	29.90	759.1	61.7	16.5	76	sw.			1		10		w.	0.236	6.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.49	749.1	29.75	755.7	60.6	15.9	77	w.			2		10		w.	0.323	8.2	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.11	739.5	30.00	762.0	62.6	17	84	sw.			4		10		ne.	0.354	9.0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.8	30.10	764.4	62.8	17.1	98	sw.			1		10		w.	0.138	3.5	covered	M. Malet, Director.
Bourges, Normal School	29.40	746.7	29.94	760.4	62.6	17	88	sw.			6		kn		sw.	0.51	13.		M. de Kermarée, Dir.
Brest, Naval Observatory	29.60	751.8	29.84	758.0	61.5	16.4	87	sw.			4		10		sw.	0.047	1.2	misty	M. Berson, Director.
Caen, Normal School	29.66	753.3	29.73	755.1	60.4	15.8	73	w.			1					0.08	2.		M. Jadot, Director.
Châlons-sur-Marne, N.Sch	29.43	747.5	29.74	755.4	60.4	15.8	91	sw.			6		8	w.	sw.	0.555	14.1	very cloudy	M. Noel, Director.
Charleville, Normal School	29.20	741.7	29.70	754.4	61.5	16.4	67	sw.			8		10	ne.		1.240	31.5	covered	M. Alluard, Director.
Clermont-Ferrand Obs'y	28.69	728.6	30.01	762.2	65.5	18.6	66	sw.			2		10		wsw.	0	0		M. de Villemontée, Dir.
Cluny, Normal School	29.18	741.1	30.01	762.3	61.7	16.5	86	s.			2					0.350	8.9		Dr. Coulet, Director.
Commercy, Normal School	28.96	735.6	29.81	757.1	59.7	15.4	84	w.			6		10			1.004	25.5	raining	M. Jarach, Director.
Gap, Normal School	27.66	702.5	30.21	767.3	54.5	12.5	93	calm			0		9			0.098	2.5	foggy	M. Kina, Director.
Gréasque, du Rhone	29.06	738.0	30.16	766.0	68.4	20.2	64	s.			2		9		s.	0.059	1.5		M. Ablard, Director.
Grenoble, Normal School	29.37	746.1	30.14	765.5	60.8	16	89	ene.			2		n		e.	0	0		M. Delorme, Dir.
Guéret, Normal School	28.45	722.7	30.01	762.3	59.0	15	96	wsw.			2		10 n		sw.	0.256	6.5	raining	M. Ollitrault, Director
Lamballe, Normal School.	29.43	747.5	29.71	754.5	63.0	17.2	68	w.			4		5		w.	0	0	cloudy	M. Chauvin, Director.
Lescar, Normal School	29.59	751.6	30.15	765.7	69.8	21.0	80	se.			1		10			0.154	3.9	covered	Lt. T. Carre, Director
Lorient, Naval Observatory	29.76	755.8	29.86	758.4	61.2	16.2	81	sw.			3		10		sw.	0.299	7.6	covered	M. André, Director.
Lyon, St. Genis-Laval	29.04	737.6	30.10	764.4	58.8	14.9	97	s.			2		10 n					raining	M. Richard, Director
Mans, Normal School	29.56	750.8	29.86	758.4	61.3	16.3	82	wsw.			4		5		w.	0.63	16.	cloudy	M. Stephan, Director.
Marseille, Observatory	29.89	759.3	30.16	766.1	70.0	21.1	82	sw.			1		9		wsse.	0	0		M. Cave for Dr. Fines.
Montlouis	25.03	635.8	29.87	758.8	54.5	12.5	60	e.	11.2	5.0			8		se.	0	0		M. Gaizin, Director.
Montpellier, Normal School	30.02	762.5	30.15	765.8	68.7	20.4	94	ese.			2		10	nw.				light rain	M. Hasse, Director.
Nancy	29.15	740.3	29.92	759.9	61.9	16.6	75	s.			2	ck		sw.		0.425	10.8		M. Larocque, Director.
Nantes, Observatory	29.76	756.0	29.93	760.1	63.1	17.3	81	wsw.			1		10 n		wsw.	1.358	34.5	raining	Dr. Fines, Director.
Perpignan, Observatory	30.07	763.7	30.18	766.5	69.1	20.6	71	s.	3.8	1.7			10		wnw	0	0		M. Vaussenat, Director.
Pic-du-Midi, Summit	21.46	545.0			38.1	3.4		nw.			1		fg		nw.	0.307	7.8	foggy	M. Tailleu.
Privas, Normal School	29.09	738.8	30.14	765.6	61.2	16.2	87	n.			4		5	n.	n.	inap.	inap.	cloudy	M. Alluard.
Puy de Dôme Obs'y, Summit	25.16	639.1			48.2	9.0	100	wsw.			10		10			0.110	2.8	foggy	Lt. E. Decante, Director.
Rochefort, Naval Obs'y	29.94	760.5	29.97	761.3	63.3	17.4	96	sw.			8		10		w.	0.75	19.	covered	M. Brotier, Director.
Roche-sur-Yon, N. School	29.74	755.4	29.95	760.8	62.6	17	92	sw.			4		10			0.47	12.	covered	M. Siger, Director.
Rodez, Normal School	28.06	712.6	30.23	767.9	50.7	10.4	93	nw.			1.5		10 n		ne.	1.06	27.	raining	M. Moulliot, Dir.
Rouen, Normal School	29.71	754.5	29.75	755.7	60.8	16	79	w.			1		10	e.		0.386	9.8	covered	M. Delaplanche, Dir.
St Lô	29.64	752.9	29.78	756.3	51.8	11	80	w.			2		10		w.	0.008	0.2	covered	M. Renou, Director.
Saint Maur, Observatory	29.65	753.0	29.81	757.2	63.3	17.4	70	sw.			2		10		wsw.	0.413	10.5		M. Bailland, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	64.8	18.2	86	ssw.			1		10	w.		0.071	1.8	covered	M. de Tastes.
Tours	29.73	755.1	29.91	759.6	63.7	17.6	74	sw.			4		10		sw.	0.433	11.0	raining	Dr. A. Berigny, Director.
Versailles, Observatory	29.32	744.7	29.81	757.2	61.5	16.4	72	sw.			2		10			0.154	3.9	covered	M. Cartier, Director.
Sub-series.																			
St. Martin du Hinx	30.04	763.0	30.19	766.8	69.1	20.6	85	s.	5.8	2.6			10 k		w.	0.075	1.9	covered	Prof. Jnedt.
GERMAN.																			
Ansbach	28.40	721.3	29.82	757.4	60.4	15.8	79	sw.			4		9	sw.		0	0		Prof. Dr. Hoh.
Bamberg	28.96	735.6	29.80	756.9	60.1	15.6	77	sw.			2		10 n		sw.	0.071	1.8	raining	Dr. Lensch.
Berlin	29.47	748.5	29.61	752.1	61.5	16.4	72	s.			6		10			0.024	0.6		Royal University Obs'y.
Breslau	29.35	745.5	29.88	758.9	58.3	14.6	61	s.			4		3	wsw.		0	0		Albert Senz.
Carlsruhe	29.36	745.8	29.82	757.4	63.1	17.3	81	sw.			10		10	sw.		0.996	25.3	raining	Dr. H. Möhl.
Cassel	28.89	733.7	29.60	751.8	60.1	15.6	79	sw.			8		8	sw.		0.197	5.0		Physical Society.
Frankfort-on-the-Main	29.32	744.6	29.74	755.4	63.0	17.2	73	sw.			4		9			0.303	7.7		Wilhelm, Chief Tel.
Friedrichshafen	28.95	735.4	29.96	761.0	57.2	14.0	82	sw.			2		10	w.		0.598	15.2		E. Preiler.
Hamburg	29.30	744.3	29.39	746.6	57.4	14.1	90	sw.			8		10			0.240	6.1		Prof. Dr. G. Karsten.
Kiel	29.29	743.9	29.30	744.3	56.5	13.6	93	sw.			5		10			0.457	11.6		H. Leppig, Asst.
Leipsic, Astrom'l Obs'y	29.25	743.3	29.67	753.7	62.6	17.0	64	ssw.			5		10	sw.		0	0	stormy	Weather Observatory.
Magdeburg	29.38	746.2	29.56	750.9	60.1	15.6	84	s.			4		10	sw.		0.051	1.3		Isermann.
Memel	29.78	756.5	29.83	757.7	54.1	12.3	69	sse.			5	4 c							Central Station.
Munich	28.11	713.9	29.97	761.1	61.0	16.1	57	sw.			1		9	sw.		0	0		A. Lothes.
Neufahrwasser	29.73	755.2	29.75	755.6	56.3	13.5	70	se.			3		7			0	0		Dicknether.
Neustadt, Palatinate	29.23	742.4	29.75	755.7	63.7	17.6	67	ssw.			6		10			0	0		Prof. Dr. Schoder.
Stuttgart	28.89	733.7	29.76	755.8	63.5	17.5	70	w.			5		10			0.287	7.3		Profs. Brandes & Reimer.
Wustrow	29.41	747.1	29.44	747.8	54.9	12.7	93	s.			5		10 s			0.213	5.4		Schmidt & Wourlisch.
GREEK.																			
Athens	29.80	756.9	30.18	766.6	68.2	20.1		e.			1.0		9 k			0	0		
INDIAN.																			
Kurrachee	29.82	757.4	29.87	758.7	93.0	33.9	43	wsw.	19.0	8.5			3			0	0	d. clouds	
Deesa	29.39	746.5	29.86	758.4	90.0	32.2	23	se.	14.0	6.3			8	se.	se.	0	0	d. clouds	
Bombay	29.82	757.5	29.86	758.5	84.3	29.1	82	w.	7.0	3.1			10		w.	0.02	0.5	overcast	
Poona, Yarrowda	28.02	711.8	29.88	759.0	78.3	25.7	76	se.	9.0	4.0			9			0.57	14.5	d. clouds	
Trichinopoly	29.58	751.3	29.86	758.4	82.1	27.8	71	nw.	0.1	0.04			5			0.07	1.8	d. clouds	
Bellary	28.37	720.6	29.86	758.3	74.0	23.3	90	ne.	6.0	2.7			10			0.02	0.5	overcast	
Belgaum	27.33	694.1	29.90	759.4	69.6	20.9	89	ene.	4.0	1.8			10	e.		0.18	4.6	d. clouds	
Lahore	29.10	739.3	29.84	758.0	84.0	28.9	37	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.92	734.7	29.82	757.4	82.8	28.2	25	calm	0	0			0			0	0	blue sky	
Agra	29.31	744.4	29.86	758.5	90.2	32.3	19	w.	2.0	0.9			6		w.	0	0	d. clouds	
Nagpur	28.85	732.9	29.89	759.2	84.7	29.3	40	ne.	5.0	2.2			3	e.		0	0	d. clouds	
Jubbulpore	28.58	725.8	29.94	760.4	79.0	26.1	52	se.	6.0	2.7			6	se.		0	0	d. clouds	
Lucknow	29.49	749.1	29.87	758.6	83.2	28.4	24	calm	0	0			5	ene.		0	0	d. clouds	
Allahabad	29.55	750.6	29.87	758.6	78.8	26.0	52	calm	0	0			6			0	0	blue sky	
Patna	29.67	753.6	29.85	758.3	84.4	29.1	44	calm	1.1	0.5			0			0	0	blue sky	
Hazaribagh	27.88	708.0	29.88	759.1	79.3	26.3	44	wnw.	5.7	2.6			0			0	0	blue sky	
Cuttack	29.82	757.5	29.90	759.6	85.0	29.4	67	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.87	758.7	29.89	759.2	82.8	28.2	81	sw.	4.0	1.8			0			0	0	blue sky	
Dhubri	29.75	755.6	29.87	758.6	79.3	26.3	89	calm	0.5	0.2			0			0	0	d. clouds	
Chittagong	29.84	757.9	29.93	760.2	85.7	29.8	69	w.	1.3	0.6			2			0	0	blue sky	
Sibsagar	29.56	750.8	29.90	759.4	80.1	26.7	85	se.	2.0	0.9			0			0	0	d. clouds	
Jeypore	28.46	722.8	29.88	758.9	88.8	31.6	24	nnw.	2.3	1.0			8		n.	0	0	d. clouds	
Zanzibar	29.91	759.7			79.9	26.6	66	nnw.	3.4	1.5			2	s.		0	0		
ITALIAN.																			
Udine	29.72	755.0	30.13	765.3	63.3	17.4	56	sw.	0.7	0.3			8			0	0		Prof. Giovanni Clodig.
Milan	29.64	752.9	30.16	766.0	60.6	15.9	69	sw.	0.7	0.3			10	sw.		0	0		Prof. G. V. Schiapparelli
Padua	30.00	762.1	30.11	764.9	64.0	17.8	62	w.	11.9	5.3			9	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.23	742.5	30.13	765.4	59.9	15.5	55	nnw.	0.7	0.3			8	n.		0	0		Prof. F. F. Denza.
Genoa	29.98	761.4	30.17	766.2	62.6	17.0	88	se.	9.4	4.2			10	s.		0.004	0.1		Prof. G. M. Garibaldi.
Mondovi	28.24	717.4	30.15	765.8	58.1	14.5	58	nw.			4		10			0	0		Prof. D. C. Bruno.
Pesaro	30.11	764.8	30.16	766.0	67.1	19.4	50	sw.	12.5	5.6			1			0	0		Prof. Luigi Guidi.
Florence	29.93	760.3	30.19	766.8	66.6	19.2	57	ssw.			2		10	w.		0	0		Prof. Costantino Pittei
Leghorn	30.06	763.6	30.15	765.8	66.0	18.9	73	s.	1.8	0.8			10			0	0		Prof. P. Monte.
Rome	30.04	763.1	30.22	767.5	68.0	20.0	46	w.	0.7	0.3			2			0	0		Prof. P. Tacchini.
Lecce	29.95	760.6	30.20	767.0	69.4	20.8	65	ene.	6.3	2.8			4	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.31	744.5	30.20	767.0	67.3	19.6	63	ese.	1.8	0.8			2	se.		0	0		Prof. D. Conti.
Cagliari	30.00	762.0	30.19	766.8	68.4	20.2	69	s.			2		0			0	0		Prof. A. Pacinotti.
Palermo	30.01	762.3	30.26	768.6	67.8	19.9	66	ne.	4.3	1.9			3	wsw.		0	0		Prof. G. Cacciatore.
Syracuse	30.14	765.6	30.19	766.7	72.9	22.7	58	sw.	3.8	1.7			0	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.70	754.4	30.22	767.5	66.6	19.2	54	sw.	3.8	1.7			4	nne.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.01	762.2	30.04	763.1	55.0	12.8	91	calm			0	0	0			0	0	foggy	H. Hattori.
Awomori	29.95	760.7	29.99	761.7	56.0	13.3	88	s.	4.9	2.2		5 cs	5 s			0	0	cloudy	K. Ogawa.
Hamamatsu	29.96	761.0	30.06	763.5	60.4	15.8	87	nw.			2	1 cs	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.14	765.5	30.15	765.8	63.0	17.2	77	nw.			2	0	0			0	0	clear	G. Miyanohaza.
Kanazawa	30.06	763.5	30.16	766.0	57.9	14.4	85	se.	4.8	2.1		1 ck	9 s			0	0	cloudy	S. Endo.
Kioto	29.99	761.7	30.16	766.1	55.3	12.9	92	nnw.	1.2	0.5			10 s			0	0	cloudy	M. Tojima.
Kochi	30.14	765.6	30.16	766.1	63.0	17.2	78	wnw.	6.1	2.7		5cs;ck	0	w.		0	0	fair	K. Kusunose.
Miasaka	30.15	765.8	30.18	766.5	62.8	17.1	90	n.			2	4 cs	3 ks	w.	w.	0	0	fair	K. Masusaki
Miyako	29.87	758.8	29.98	761.6	54.3	12.4	98	wsw.	1.0	0.4			10 s		nw.	0.410	10.4	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.98	761.5	30.18	766.6	63.9	17.7	72	ne.	3.0	1.3		4ck;cs	0	w.		0	0	fair	S. Takebayasi.
Niigata	30.05	763.3	30.09	764.3	64.3	17.9	70	w.	6.6	2.9		0	5 ks			0	0	½ cloudy	Satoo & Tomikawa.
Nobiru	29.98	761.6	30.00	762.0	58.3	14.6	81	nnw.	10.2	4.6			10 ks			0.015	0.4	covered	Yoslino & Midzushina.
Numazu	30.03	762.7	30.07	763.7	54.5	12.5	96	ne.			2	2 c	0			0.512	13.0	clear	R. Kaneda.
Osaka	30.13	765.4	30.15	765.8	60.1	15.6	86	n.	2.4	1.1			fg			0	0	foggy	H. Omura.
Sakai	30.17	766.4	30.18	766.6	65.1	18.4	76	nnw.			2	0	0			0	0	clear	Yamawchi&Sakamoto.
Shimonoseki	30.07	763.7	30.21	767.4	63.5	17.5	72	calm			0	0	6ck;s		w.	0	0	fair	S. Sakano.
Tokei Obs'y, Yeddo	29.96	761.1	30.04	763.0	60.5	15.8	57	nw.	9.2	4.1		0	0			0.005	0.1	clear	The Staff.
Wakayama	30.09	764.3	30.14	765.6	65.3	18.5	66	nenne.	4.4	2.0		10 cs	0			0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	74.3	23.5	63	e.	15.5	6.9			10 ks		e.	0.01	0.3	overcast	The Staff.
MEXICAN.																			
Leon	24.29	617.0	29.97	761.2	56.3	13.5	88	nnw.	0.9	0.4		9 c	1 s			0	0	covered	Prof. M. Leal.
Mazatlan	29.57	751.2	29.83	757.7	77.0	25.0	91	nw.	5.3	2.3		0	1 ks			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.56	750.7	29.56	750.7	57.7	14.3		w.			5					0.091	2.3		
Groningen	29.28	743.8	29.34	745.2	52.2	11.2		nw.			6					0.087	2.2		
Helder	29.37	746.1	29.37	746.1	54.0	12.2		w.			6					0.224	5.7		
Hellevoetsluis	29.49	749.0	29.49	749.0	55.4	13.0	99	w.			4					0.035	0.9		
Utrecht	29.45	748.0	29.50	749.2	57.4	14.1	67	w.			6		2			0.063	1.6	lightly cl'dy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.89	759.2			81.1	27.3	78	ne.	3.5	1.6			0			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	28.84	732.4	28.90	734.0	50.0	10.0	76	sse.	22	10			10			0.567	14.4	raining	
Brono	29.03	737.4	29.07	738.4	56.8	13.8	52	se.			7		3			0	0		
Christiania	29.02	737.2	29.17	740.8	52.7	11.5	92	sse.	13	6			10			0.311	7.9	light fog	
Gjæsvær	29.35	745.4	29.37	746.0	41.9	5.5		s			6		5						
Lodingen	29.18	741.1	29.22	742.3	48.7	9.3	58	calm			0		5			0	0		
PORTUGUESE.																			
Angra, Azores					69.8	21.0	89	w.	4.9	2.2			3			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.25	768.4	30.34	770.0	71.8	22.1	61	sw.	4.3	1.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	30.00	762.1	30.34	770.6	67.3	19.6	84	ssw.	4.9	2.2			8			0	0		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	74.1	23.4	77	w.	4.3	1.9			3			0	0		
Saint Paul de Loundo	29.71	754.7	29.91	759.8	75.2	24.0	92	w.	1.3	0.6			10			0	0		
San Salvador, Congo	28.09	713.6	29.93	760.3	75.7	24.3	73	sw.			2		10			0	0		
Serra da Estrella	25.58	649.6	30.32	770.0	52.7	11.5	98	w.	21.7	9.7			10			3.618	91.9		
RUSSIAN.																			
Akmolinski	29.00	737.7	30.15	765.9	21.7	— 5.7	55	w.	16	7		0	1 ks			0	0		Major K. Lasarew.
Archangel	29.95	760.8	29.97	761.3	39.2	4.0	93	sw.	9	4			10			0	0		Capt. Sseliwerstow
Ashurada	30.61	777.4	30.51	775.0	61.3	16.3	55	ene.	18	8		0	1 k			0	0		
Astrakhan	30.55	776.0	30.48	774.1	53.8	12.1	43	se.	2	1		0	0			0.260	6.6		Capt. Wisganow.
Baku	30.56	776.3	30.52	775.1	58.8	14.9	66	ssw.	13	6		0	5 k			0.004	0.1		
Barnaul	29.48	748.9	30.00	762.0	33.3	0.7	87	sw.	13	6			10			0	0		Meteorological Obs'y
Bielosersk	29.72	754.9	30.20	767.1	42.3	5.7	80	calm	0	0			10 s			0.028	0.7		
Dorpat	29.72	755.0	29.97	761.3	47.1	8.4	67	sse.	9	4		0	0			0.004	0.1		Observatory.
Ekaterinburg	29.26	743.2	30.27	768.9	31.8	— 0.1	71	sw.	9	4			10			0	0		Meteorological Obs'y.
Elisawetgrad	29.88	759.0	30.34	770.5	59.5	15.3	18	ese.	16	7		0	0			0	0		
Irkutsk	28.34	719.9	30.01	762.2	41.2	5.1	69	se.			2		0						
Kasalinsk					47.5	8.6	50	nw.	0	0		0	2 s						
Kasan	30.04	763.0	30.32	770.0	45.9	7.7	55	wsw.	13	6			9 k			0	0		Observatory.
Kem	29.83	757.6	29.88	758.9	40.8	8.2	83	sw.	9	4			10 ks			0	0	h'vy clouds	
Kertch	30.13	765.3	30.15	765.9	59.5	15.3	32	e.	13	6		0	0			0	0		Lagorio & Sustyrea.
Kieff	29.68	753.8	30.32	770.2	51.6	10.9	34	se.	11	5		c; cs	1 ks			0	0		Observatory.
Koslov	29.96	760.9	30.48	774.1	47.8	8.8	39	calm	0	0		0	1 s			0	0		
Libau	29.76	756.0	29.79	756.6	54.3	12.4	68	sse.	18	8			9			0	0		E. Quaas.
Lugan	30.19	766.7	30.39	771.9	55.0	12.8	26	ene.	22	10			0			0	0		Meteorological Obs'y.
Moscow	29.90	759.4	30.39	771.8	50.7	10.4	33	wsw.	3.4	1.5		0	2 s			0	0		Meteorological Obs'y
Nikolaiev	30.19	766.8	30.26	768.6	62.1	16.7	33	ese.	18	8		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiewsk-on-the-Amoor	29.63	752.6	29.72	754.8	36.0	2.2	80	wnw.	2	1		0	8 n					snowing	Iwanow.
Pekin, China	30.06	763.6	30.21	767.2	59.7	15.4	93	se.	2.2	1.0			9 n			0.012	0.3		Physical Observatory.
Petro-Alexandrovsk	30.21	767.4	30.58	776.7	45.3	7.4	45	calm	0	0		0	3 ks			0.311	7.9		
Petrozavodsk	29.84	757.8	30.03	762.8	45.5	7.5	83	sw.	11	5		5 ck	0			0	0		Dr. Bergmann.
Pinsk	29.66	753.3	30.16	766.0	52.9	11.6	44	sse.	22	10		3 cs	0			0	0	light clouds	
Poti	30.08	764.1	30.11	764.9	66.6	19.2	64	e.	13	6		0	2 ks			0.028	0.7		
St. Petersburg	30.00	761.9	30.02	762.5	47.1	8.4	51	s.	16	7		3ck;cs	0			0	0		Central Physical Obs'y.
Samarkand	27.97	710.4	30.59	776.9	33.1	0.6	98	calm	0	0			10 n			0.791	20.3	snowing	
Semipalatinsk	29.52	749.9	30.21	767.3	34.0	1.1	67	w.	18	8			10			0.079	2.0		Major Lasarew
Sevastopol	29.91	759.8	30.12	765.1	64.6	18.1	50	nw.	7	3		5 cs	0			0	0		
Starol Bykhov	29.73	755.1	30.28	769.2	56.1	13.4	28	se	9	4		8 cs	0			0	0	light clouds	
Tashkend Laboratory	28.75	730.3	30.52	775.3	34.5	1.5	93	calm	0	0			10 n			0.185	4.7	light clouds	Terch, A. M
Tiflis	29.06	738.1	30.51	775.0	50.9	10.5	58	s.	2	1			10 n			0	0		Physical Observatory.
Vernoe	27.80	706.0	30.41	772.3	36.5	2.5	84	n.	2	1			10 n			0.386	9.8		
Viatka	29.51	749.6	30.16	766.0	40.6	4.8	67	wsw.	4	2			2			0	0		
Warsaw	29.53	750.1	29.95	760.7	57.0	13.9	67	s.	11	5		4 ck	0			0	0		Astronomical Obs'y.
Yeniseisk	29.56	750.7	29.85	758.2	34.0	1.1	89	w.	7	3			10			0.028	0.7	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.10	764.5	30.21	767.2	73.4	23.0	64	sw.	2.2	1.0		1 c	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.12	765.0	30.18	766.5	77.5	25.3	62	nw.	4.5	2.0		2	6	nw.		0.154	3.9	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.32	693.9	30.27	768.9	58.5	14.7	92	s.	11.2	5.0			10			0.142	3.6	covered	Domingo Martin.
Madrid, Royal Obs'y	28.09	713.5	30.34	770.5	59.9	15.5	84	s.	3.8	1.7			10			0.142	3.6	covered	The Staff.
Murcia, Met. Obs'y	30.13	765.2	30.24	768.0	71.8	22.1	48	nw.	3.8	1.7		2	0	se.		0	0	almost clear	Olayo Diaz, Director.
Oviedo	29.33	744.9	30.09	764.2	65.3	18.5	79	s.	8.1	3.6		8 s	8 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.30	744.3	30.20	767.0	61.7	16.5	100	sw.	6.5	2.8			10			0.488	12.4	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.96	760.9	30.02	762.5	76.4	24.7	79	ne.	7.6	3.4		2cs;ck	3 sk;k	sw.	e.	0.16	4.2	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.8	29.93	760.3	73.0	22.8	95	une.	11.0	4.9			10 n			0.819	20.8	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.6	30.28	769.0	77.0	25.0	47	nw.	4.5	2.0		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.94	760.4	30.03	762.7	78.4	25.8	86	calm	0	0		1 s	3 k	e.	e.	0.165	4.2	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.60	751.9	29.64	752.9	41.7	5.4	94	s			4		10			0.071	1.8		
Umea	29.47	748.5	29.52	749.8	45.3	7.4	100	s.			6		10			0.827	21.0		
Hernosand	29.40	746.7	29.45	748.0	47.1	8.4	94	sse.			7		10			0.130	3.3		
Stockholm	29.35	745.5	29.53	750.0	50.2	10.1	96	s.			6		10			0.028	0.7		
Wisby																0.024	0.6		
Sub-series.																			
Upsala	29.36	745.8	29.45	748.0	50.7	10.4	98	s.	19.0	8.5			10		s.	0.547	13.9	raining	H.H. Hildebrandesson
Swiss.																			
Geneva	28.69	728.7	30.10	764.5	58.8	14.9	82	ssw.			2		10			0.189	4.8	raining.	The Observatory.
Turkish.																			
Constantinople			30.17	766.3	60.4	15.8	83	nnw.	19	8.5			10		nw.	0.055	1.4		The Observatory.
Valona			30.30?	769.6?	71.2	21.8		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.07	763.7	79.3	26.3	59	nw.			2		6 k		nw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.89	683.0			51	10.6	93	calm			0		10 k		sw.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.64	778.2	30.72	780.3	35.5	1.9	65	n.	3	1.3		3 cs	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.87	758.7	30.54	775.7	43	6.1	83	se.	24	10.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.91	632.7	29.81	757.2	43.0	6.1	93	calm	0	0			10 ks		ne.	0.50	12.7	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.84	681.7	29.76	755.9	30	— 1.1	71	sw.	4	1.8			10 s		w.	0.12	3.0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.22	742.2	30.41	772.4	49.0	9.4	93	e.	15	6.7			10 s		e.	0.01	0.3	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.59	777.0	30.60	777.2	45.1	7.3	68	n.	9	4.0		2 k	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.27	768.8	30.46	773.7	53	11.7	72	ne.	5	2.2			10 s		ne.	0.02	0.5	cloudy	Louis Duane.
Baltimore, Maryland	30.59	777.0	30.64	778.2	44	6.7	60	n.	5	2.2		0	8 k		sw.	0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.59	777.0	30.61	777.5	46.0	7.8	64	n.	20	8.9		3 k	0	e.		0	0	clear.	G. A. Hill.
Bennett, Fort, Dakota	28.02	711.7	29.64	752.8	46.0	7.8	100	se.	14	6.3			10 n		se.	0.46	11.7	light rain	A. Pritchard.
Benton, Fort, Montana	26.89	683.0	29.80	756.9	34	1.1	82	calm	0	0		2 ck	3 s	w.		0	0	fair	Thomas Morgan.
Bismarck, Dakota	27.82	706.6	29.70	754.4	45	7.2	76	se.	9	4.0			10 s			0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.61	777.5	30.64	778.2	41.3	5.2	81	ne.	25	11.2		0	0			0	0	clear	J. T. Eiker.
Boise City, Idaho	27.12	689.8	29.98	761.5	36	2.2	89	n.	4	1.8			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.49	774.4	30.65	778.5	34.0	1.1	60	n.	13	5.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.83	757.7	29.89	759.2	76.0	24.4	90	se.	6	2.7		0	0			0.14	3.6	clear	John McGlone.
Buffalo, New York	29.84	757.9	30.60	777.2	32	0.0	70	ne.	11	4.9		0	sk.			0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.56	700.0	29.66	753.4	43	6.1	100	w.	6	2.7			10 n		w.	0.11	2.8	light rain	A. Schneider.
Cairo, Illinois	29.78	756.4	30.18	766.6	56.6	13.7	89	se.	7	3.1			10 s		se.	0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.73	755.1	29.93	760.2	49.5	9.7	80	nw.	15	6.7		0	2 k		nw.	0.10	2.5	clear	O. D. Stewart.
Cape Henry, Virginia	30.51	774.9	30.53	775.4	56.0	13.3	69	ne.	23	10.3			10 k s		ne.	0	0	cloudy.	A. K. Alderson.
Cape May, New Jersey	30.56	776.2	30.59	777.0	44.0	6.7	68	ne.	10	4.5		6 ck	2 k	ne.		0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.34	745.2	30.03	762.7	50	10.0	86	nw.	16	7.2		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	70.0	21.1	90	n.	12	5.4		0	2 s		ne.	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.32	770.1	30.38	771.6	57.0	13.9	93	ne.	12	5.4		3 ck	4 s	ne.	ne.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.64	752.8	30.50	774.7	49.5	9.7	74	ne.	6	2.7			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.53	750.0	30.36	771.1	56.0	13.3	77	s.	3	1.3		0	9 s		s.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.69	601.7	29.71	754.6	36.0	2.2	53	n.	20	8.9		0	4 s			0.30	7.6	fair	E. McGovern.
Chicago, Illinois	29.59	751.6	30.30	769.6	46.0	7.8	68	se.	12	5.4		3 ck	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	30.54	775.7	30.56	776.2	51	10.6	80	ne.	8	3.6			9 ks		ne.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.71	754.6	30.37	771.4	51.2	10.7	72	e.	5	2.2			10 s		e.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.72	754.9	30.46	773.7	36.0	2.2	59	se.	8	3.6		7 c	0	w.		0	0	fair	J. B. Newlin.
Columbus, Ohio	29.54	750.3	30.40	772.1	44	6.7	65	ne.	5	2.2		0	9 ks		sw.	0	0	cloudy	D. Outhbertson.
Concho, Fort, Texas	27.84	707.1	29.79	756.7	70.0	21.1	84	s.	24	10.7			10 s		s.	inap.	inap.	cloudy	C. E. King.
Custer, Fort, M. T	26.53	673.8	29.77	756.1	31	— 0.6	88	w.	3	1.3		0	0			0.16	4.1	clear	T. Gibson.
Davenport, Iowa	29.49	749.0	30.15	765.8	44.2	6.8	68	e.	15	6.7			10 s		se.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.06	636.5	29.91	759.7	54.0	12.2	83	nw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.08	713.2	29.87	758.7	38.5	3.6	100	s.	10	4.5			10 n			0.22	5.6	heavy rain	D. Moore.
Deadwood, Dakota	24.99	634.7	29.67	753.6	37.5	3.1	100	s.	4	1.8			10 n			0.08	2.0	light snow	F. Des Willson.
Delaware Breakwater, Del.	30.57	776.5	30.59	777.0	51	10.6	80	ne.	26	11.6		3 k	0	ne.		0	0	clear	F. W. Mixer.
Denver, Colorado	24.36	618.7	29.62	752.3	47.0	8.3	82	nw.	2	0.9		1 c	3 s	nw.		0.03	0.8	fair	F. M. Nett.
Des Moines, Iowa	29.05	737.9	29.97	761.2	45	7.2	83	se.	8	3.6			10 n		se.	0.11	2.8	light rain	F. W. Conrad.
Detroit, Michigan	29.77	756.1	30.48	774.2	42.0	5.6	93	ne.	12	5.4		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	26.99	685.5	29.62	752.3	55	12.8	86	se.	20	8.9			10 s		se.	1.48	37.6	thnd'r str'm	J. H. Bryce.
Dubuque, Iowa	29.49	749.0	30.21	767.3	43.3	6.3	57	e.	10	4.5			10 s		e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.19	766.8	46	7.7	77	se.	10	4.5			10 n		se.	0.02	0.8	light rain	N. B. Conger.
Eastport, Maine	30.54	775.7	30.61	777.5	32.5	0.3	73	n.	10	4.5		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	26.88	682.7	29.68	753.9	55.5	13.1	94	s.	12	5.4		0	8 s		s.	2.62	66.5	cloudy	J. C. Rickli.
El Paso, Texas	26.20	665.5	29.94	760.5	48.0	8.9	80	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.81	757.2	30.54	775.7	37	2.8	72	se.	3	1.3		0	0			0	0	clear	C. A. Shaw.
Escanaba, Michigan	29.74	755.4	30.41	772.4	45.0	7.2	60	se.	22	9.8		3 cs	0	se.		0	0	clear	George Heathcote.
Galveston, Texas	29.90	759.4	29.94	760.5	78	25.6	74	se.	18	8.0		3 cs	4 ks		s.	0.23	5.8	fair	E. O'C. MacInerney
Grand Haven, Michigan	29.69	754.1	30.36	771.1	35.5	1.9	79	e.	12	5.4		6 cs	0	e.		0	0	fair	Wm. H. Fallon.

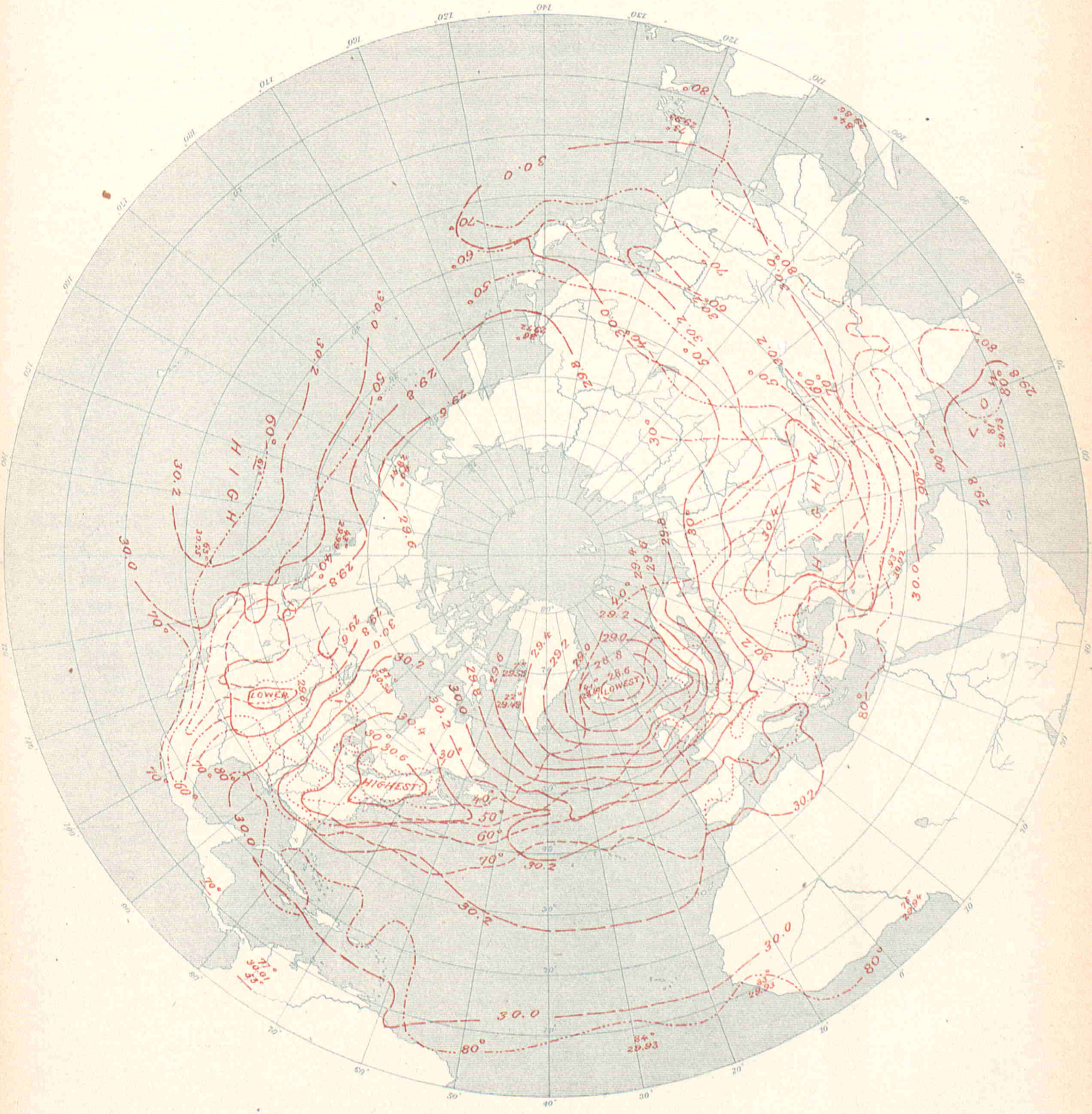
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.14	638.5	29.84	757.9	41.3	5.2	72	nw.	2	0.9	.....	0	0	.....	.....	0.04	1.0	clear	Chas. A. Read.
Hatteras, North Carolina	30.44	773.2	30.45	773.4	59.0	15.0	74	ne.	15	6.7	.....	3 k	0	sw.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.50	647.7	29.80	756.9	32	0.0	81	se.	1	0.4	.....	9 cs	0	n.	.....	0	0	cloudy	J. H. Jones.
Huron, Dakota	28.34	719.8	29.76	755.9	46	7.8	86	se.	17	7.6	.....	.....	10 n	.....	.....	0.26	6.6	light rain	S. W. Glenn.
Indianapolis, Indiana	29.48	748.8	30.28	769.1	45.0	7.2	60	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.86	758.4	29.89	759.2	77.2	25.1	87	se.	16	7.2	.....	0	2 s	.....	.....	0.12	3.0	clear	I. A. Reed.
Jacksonville Florida	30.17	766.3	30.21	767.3	73.0	22.8	90	ne.	5	2.2	.....	1 cs	9 s	.....	ne.	4.23	107.4	cloudy	J. W. Smith.
Keokuk, Iowa	29.49	749.0	30.16	766.1	47.0	8.3	68	e.	16	7.2	.....	10 k	0	s.	.....	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	73	22.8	97	e	8	3.6	.....	.....	10 n	.....	.....	2.56	65.0	light rain	A. W. Browne.
Kittyhawk, North Carolina	30.46	773.7	30.48	774.2	59.0	15.0	75	ne.	20	8.9	.....	.....	10 ks	.....	ne.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.34	745.2	30.38	771.6	52	11.1	82	ne.	6	2.7	.....	7 cs	0	sw.	.....	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.19	766.8	48.4	9.1	56	se.	12	5.4	.....	.....	10 n	.....	.....	inap.	inap.	light rain	S. C. Emery.
Leavenworth, Kansas	28.93	734.8	29.83	757.7	54	12.2	74	se.	18	8.0	.....	9 k	0	s.	.....	0.22	5.6	cloudy	T. S. Outram.
Lewiston, Idaho	28.93	731.8	29.78	756.4	47.0	8.3	86	sw.	11	4.9	.....	0	8 s	.....	.....	0.33	8.4	cloudy	C. E. Butler.
Little Rock, Arkansas	29.72	754.9	30.04	763.0	60.0	15.6	93	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.01	762.2	53.5	11.9	90	e.	6	2.7	.....	2 c	0	w.	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.71	754.6	30.28	769.1	51.9	11.1	73	e.	4	1.8	.....	8 c	2 s	.....	e.	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.87	758.7	30.56	776.2	48.0	8.9	63	ne.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.84	757.9	30.50	774.7	38.1	3.4	73	s.	10	4.5	.....	7cs;ck	0	.....	.....	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.44	773.2	30.45	773.4	55.0	12.8	86	n.	21	9.4	.....	0	4 k	.....	e	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.21	640.3	29.75	755.6	35	1.7	66	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.64	752.8	30.38	771.6	41.0	5.0	65	s.	10	4.5	.....	9 cs	0	nw.	.....	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.14	765.5	63	17.2	84	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.55	750.6	30.31	769.9	47.0	8.3	68	se.	25	11.2	.....	0	8 s	.....	se.	0	0	cloudy	W. Lins.
Mobile, Alabama	30.14	765.5	30.18	766.6	67	19.4	78	e.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	30.08	764.0	30.31	769.9	58	14.4	81	e.	10	4.5	.....	.....	10 s	.....	e.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28.96	735.6	29.98	761.5	43	6.1	100	se.	25	11.2	.....	.....	10 n	.....	se.	0.16	4.1	light rain	H. Bessant.
Mt. Washington, N. H.	24.06	611.1	30.40	772.1	9.8	—12.3	89	ne.	19	8.5	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.67	753.6	30.25	768.3	59.0	15.0	81	se.	8	3.6	.....	.....	10 ks	.....	se.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.54	775.7	30.66	778.7	31.7	— 0.2	68	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.64	778.2	30.70	779.8	36.2	2.3	66	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	74.5	23.6	90	e.	11	4.9	.....	.....	10 ks	.....	se.	0.02	0.5	cloudy	M. Herman.
New York, New York	30.48	774.2	30.66	778.7	41.1	5.1	65	n	2	0.9	.....	0	fg.	.....	.....	0	0	clear	H. J. Peurod.
Norfolk, Virginia	30.48	774.2	30.51	774.9	55.0	12.8	76	ne.	7	3.1	.....	.....	10 ks	.....	ne.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	26.58	675.1	29.54	750.3	50.6	10.3	93	se.	10	4.5	.....	.....	10 n	.....	.....	0.43	10.9	light rain	E. F. Brady.
Olympia, Washington T'y	29.85	758.2	29.89	759.2	40.0	4.4	82	calm	0	0	.....	1 k	0	w.	.....	0	0	clear	J. Dascomb.
Omaha, Nebraska	28.67	728.2	29.87	758.7	47.3	8.5	100	se.	14	6.3	.....	.....	10 n	.....	se.	1.46	37.1	heavy rain	A. Pollak
Oswego, New York	30.34	770.6	30.67	779.0	34.0	1.1	72	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. G. Linsley
Palestine, Texas	29.34	745.2	29.90	759.4	71.5	21.9	92	se.	18	8.0	.....	.....	10 ks	.....	se.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.15	765.8	30.18	766.6	66.4	19.1	83	ne	15	6.7	.....	.....	10 s	.....	ne.	0.84	21.3	cloudy	M. McGauran.
Philadelphia, Pa	30.55	776.0	30.65	778.5	39.7	4.3	67	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.51	444.7	29.79	756.7	10	—12.2	100	sw.	8	3.6	.....	.....	10 ks	.....	sw.	0.03	0.8	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.69	754.1	30.51	774.9	36.0	2.2	74	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Port Huron, Michigan	29.80	756.9	30.48	774.2	35.0	1.7	69	e.	12	5.4	.....	0	0	.....	.....	0	0	clear	M. H. Perry
Portland, Maine	30.61	777.5	30.66	778.7	36	2.2	61	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.88	758.9	29.95	760.7	48.0	8.9	89	calm	0	0	.....	.....	10 ks	.....	nw.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.66	626.4	29.82	757.4	44.0	6.7	78	s.	3	1.3	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	N. D. Lane.
Provincetown, Mass	30.58	776.7	30.60	777.2	43.6	6.4	49	n.	9	4.0	.....	0	2 ks	.....	n.	0	0	clear	O. N. Kitchel.
Red Bluff, California	29.64	752.8	30.00	762.0	47	8.3	86	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.68	753.9	29.92	760.0	76.4	24.7	83	s.	15	6.7	.....	0	3 s	.....	s.	0	0	clear	Fred. Belford.
Rochester, N. Y	29.97	761.2	30.64	778.2	29	— 1.7	77	s.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	
Roseburg, Oregon	29.50	749.3	30.06	763.5	46.6	8.1	91	calm	0	0	.....	0	9 k;s	.....	nw.	0.05	1.3	cloudy	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	50.8	10.4	87	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.54	750.3	30.16	766.1	51.0	10.6	86	se	12	5.4	.....	.....	10 ks	.....	se.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.38	746.2	29.41	747.0	39.5	4.2	86	se.	27	12.1	.....	6 cs	4 s	se.	se.	0.01	0.3	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.21	741.9	30.08	764.0	44.0	6.7	76	se.	20	8.9	.....	.....	10 s	.....	se.	0.03	0.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.97	735.8	29.87	759.7	41.5	5.3	100	se.	9	4.0	.....	.....	10 n	.....	se.	0.34	8.6	light rain	C. B. Dilley
Salt Lake City, Utah	25.49	647.4	29.89	759.2	37.4	3.0	61	se.	2	0.9	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	J. Craig.
San Diego, California	29.91	759.7	29.98	761.5	53.5	11.9	75	ne.	8	3.6	.....	5 k	0	nw.	.....	0.11	2.8	fair	F. R. Day.
Sanford, Florida	30.08	764.0	30.13	765.3	71.8	22.1	90	ne.	2	0.9	.....	.....	10 s	.....	.....	0.91	23.1	cloudy	J. B. Marbury.
Sandusky, Ohio	29.77	756.1	30.46	773.7	39	3.9	65	se.	12	5.4	.....	3 c	0	se.	.....	0	0	clear	B. F. Hough.
Sandy Hook, New Jersey	30.63	778.0	30.66	778.7	44.0	6.7	51	ne.	17	7.6	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.92	760.0	29.99	761.7	54.0	12.2	90	sw.	4	1.8	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Savannah, Georgia	30.26	768.6	30.35	770.9	5[illegible]	13.9	78	ne.	15	6.7	.....	.....	10 s	.....	ne.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.08	662.4	29.78	756.4	31	— 0.6	88	w	6	2.7	.....	4 k	0	w.	.....	0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.67	753.6	29.91	759.7	67.8	19.9	90	se.	7	3.1	.....	7 ck	2 s	sw.	s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Mattingly
Sitka, Alaska	29.92	760.0	29.99	761.7	43.2	6.1	74	e.	2	0.9	.....	0	5 ks	.....	e.	0.16	4.1	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.43	747.5	29.91	759.7	57.4	14.1	86	e.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.40	772.1	30.44	773.2	52.0	11.1	74	ne.	11	4.9	.....	0	3 k	.....	e.	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.72	704.1	29.80	756.9	44.3	6.8	93	w.	1	0.4	.....	.....	10 n	.....	.....	0.36	9.1	heavy rain	John F. Hemenway.
Springfield, Illinois	29.50	749.3	30.19	766.8	45	7.2	76	se.	15	6.7	.....	.....	10 s	.....	w.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.86	682.2	29.89	759.2	57.0	13.9	93	nw	1	0.4	.....	0	0	.....	.....	0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.81	757.2	.....	.....	42.6	5.9	97	calm	0	0	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.22	691.4	29.93	760.2	38	3.3	47	calm	.....	.....	0	.....	fg.	.....	.....	0.15	3.8	dense fog	R. C. Lord.
Toledo, Ohio	29.72	754.9	30.42	772.7	42	5.6	82	se.	6	2.7	.....	5 cs	0	w.	.....	0	0	fair	A. Buell.
Unalashka, Alaska	29.90	759.4	29.92	760.0	50	10.0	71	s.	16	7.2	.....	.....	10 n	.....	s.	0.21	5.3	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.85	758.2	30.11	764.8	67.5	19.7	87	e.	9	4.0	.....	.....	10 s	.....	se.	0	0	cloudy	James Keneaty.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.51	774.9	30.63	778.0	40.0	4.4	82	n.	2	0.9	.....	10 k	0	ne.	.....	0	0	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.57	649.5	29.50	749.3	44.5	6.9	86	w.	2	0.9	.....	0	2 k	.....	sw.	0.02	0.5	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.40	772.1	30.46	773.7	52.0	11.1	80	ne.	9	4.0	.....	1 ck	0	.....	.....	0	0	clear	Samuel A. Haney.
Yankton, Dakota	28.41	721.6	29.74	755.4	46.4	8.0	96	se.	22	9.8	.....	.....	10 n	.....	se.	0.14	3.6	light rain	E. H. Thompson.
Yuma, Arizona	29.75	755.6	29.90	759.4	52.7	11.5	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	76	24.4	.....	nw.	.....	.....	1	0	8 n	.....	nw.	0	0	cloudy	W. H. Jackson.
Bogota, U. S. O.	22.04	559.7	.....	.....	53.2	11.8	76	calm	0	0	.....	0	3ks;s	.....	n.	1.000	25.4	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.99	761.7	74.8	23.8	88	n.	1	0.4	.....	4 c	1 s	e.	e.	0	0	fair	Robert Johnstone.
Paramaribo, S. A.	29.97	761.2	29.97	761.2	80	26.7	82	e.	.....	.....	3	4 ck	3 s	.....	.....	0	0	fair	Dr. C. J. Herring.
Puerto Berrio, U. S. O.	29.45	748.0	30.01	762.2	77	25.0	89	calm	.....	.....	0	1 ck	9 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	70	21.1	88	s.	.....	.....	1	2 ck	.....	se.	.....	0	0	fair	Earl Flint.
York Factory, B. A.	30.26	768.6	30.33	770.4	31.5	— 0.3	95	sw.	8	3.6	.....	3 k	3 s	sw.	sw.	0	0	cloudy	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 17′, E. 25° 45′	30.17	766.3	76	24.4	64	nne.			3		1	nne.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	74	23.3	86	nnw.			5		8	nnw.						d. clouds.
H. M. S. Iris, Alexandria, Egypt	30.14	765.5	80	26.7	74	nnw.			3		4	nnw.						d. clouds.
H. M. S. Inflexible, N. 39° 25′. E. 20° 10′	30.18	766.6	72	22.2	?	calm			0		3					1	nne.	d. clouds.
H. M. S. Orontes, N. 1° 50′. W. 6° 51′	30.01	762.2	77.5	25.3	90	sse.			3		4					3	sse.	d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.94	760.5	76	24.4	91	sse.			2		7	calm						raining.
H. M. S. Superb, N. 37° 56′ E. 23° 39′*	30.15	765.8	69	20.6	?	nw.			2		4	sse.				1	sse.	d. clouds.
H. P. M. S. Douro, N. 1° 38′, E. 7° 27′	29.94	760.4	77.0	25.0	96	sw.			1		9		sw.	2 h'r	2 h'r			showery.
U. S. Navy Yard, Portsmouth, N. H.*	30.60	777.2	32	0.0	78	n.	6	2.7						0	0			clear.
U. S. S. Alliance, New York, N. Y	30.72	780.3	42	5.6	83	nnw.			3		0			0	0			clear.
U. S. S. Jamestown, N. 33° 01′, W. 68° 05′	30.16	766.1	72	22.2	76	ne.			6		8		ne.			r'gh	ne.	squally.
U. S. S. Kearsarge, Malaga, Spain	30.29	769.4	72	22.2	80	s.			1		5							fair.
U. S. S. Lancaster, Malaga, Spain	30.22	767.6	61	16.1	94	calm			0		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I.			41	5.0	82	nne.			4		0					sm'h		clear.
U. S. S. Portsmouth, Verplanck's Point, N. Y	30.74	780.8	39	3.9	91	nne.			2		0							clear.
U. S. S. Powhatan, N. 42° 16′, W. 68° 23′	30.57	776.5	45	7.2	68	n.			3		10		nne.			sm'h		cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.27	768.8	68	20.0	74	sw.			2		2		sw.					fair.
U. S. S. Saratoga, Cold Spring, N. Y	30.71	780.0	38	3.3	72	nnw.			2–3		0			0	0	sm'h		clear.
U. S. S. Swatara, N. 28° 38′, W. 71° 39′	30.14	765.5	76	24.4	86	ene.			5		2		ene.	0	0	mod.	ene.	clear.
U. S. S. Vandalia, off Peekskill, N. Y.†	30.63	778.0	41	5.0	82	nnw.			2		0							clear.
S. S. British Crown, N. 39° 24′, W. 71° 08′†	30.53	775.4	56	13.3		nne.			3		8		n.	0	0	sm'h		fine.
S. S. Lord Clive, N. 41° 52′, W. 61° 54′						n.			5		7		ne.	0	0	mod	ne.	cloudy.
S. S. Lord Gough, Liverpool, Eng	29.34	745.2				w.			7		8		w.	sh'rs	sh'rs			cloudy.
S. S. Ohio, Liverpool, Eng †	29.39	746.5	51	10.6	93	w.			5		10		w.	6 h'r	6 h'r			cloudy.
S. S. Circassian, N. 55° 21′ W. 38° 52′	29.48	748.8	40	4.4	91	wnw.			6		8		wnw.			7	wnw.	showery.
S. S. Nova Scotian, N. 49° 33′, W. 44° 51′	30.02	762.5	43	6.1		w.			5		10		w.			long	wnw.	squally.
S. S. Prussian, N. 47° 18′, W. 51° 09′	30.33	770.4	41	5.0		nw.			3		7		n.	0	0	sm'h	nne.	fair.
S. S. Alvo, N. 38° 40′, W. 74° 00′*	30.53	775.4	52	11.1		ne.			6		6		nne.	0	0	mod.	ne.	d. clouds.
S. S. Andes, N. 30° 26′, W. 74° 15′ *†	30.23	767.8							5		5					h'vy	ne.	squally.
S. S. Ailsa, Cartagena, U. S. C			80	26.7	91	e.			2		8		se.	0	0			cloudy.
S. S. Assyria, N. 47° 48′. W. 41° 37′	30.16	766.1	46	7.8	92	wnw.			5		8		wnw.	0	0	r'gh	nw.	fine.
S. S. Devonia, N. 49° 56′, W. 38° 23′ *†	29.95	760.7	46	7.8		wnw.			6		7		wnw.			h'vy	wnw.	hail squalls
S. S. Dorian, N. 40° 47′, W. 29° 28′	30.20	767.1	69	20.6		wsw.			6		0			2 h'r	2 h'r	long	nnw.	clear
S. S. Furnessia, N. 42° 38′. W. 56° 16′†	30.34	770.6	54	12.2	87	ne.			6		7		ene.	4 h'r	4 h'r	mod.	ene.	cloudy.
S. S. Llandaff City, N. 40° 22′, W. 70° 51′ †	30.54	775.7	46	7.8		n.			5		7?		n.	0	0	mod	n.	clear?
S. S. Bothnia, Sandy Hook, N. J			51	10.6	93	ne.			5		0			0	0	sm'h		clear.
S. S. Gallia, N. 50° 22′, W. 20° 22′	29.77	756.1	59	15.0	76	wnw.			7		5		nw.	sh'rs	sh'rs	mod.	nw.	squally.
S. S. Arizona. N. 41° 31′, W. 65° 57′	30.50	774.7	48	8.9		n.			3		10		ne.	shr's	shr's	sm'h		light show'rs
S. S. Wisconsin, N. 51° 23′, W. 18° 30′	29.59	751.6	50	10.0		nw.			6		4		nw.	6 h'r	6 h'r	high	nw.	squally.
S. S. Wyoming, N. 50° 19′ W. 26° 40′	29.86	758.4	47	8.3		w.			6		5		wnw.	6 h'r	6 h'r	h'vy	w.	hail squalls
S. S. Bohemia, N. 49° 45′, W. 5° 32′						nw.			6		8		nw.	0	0	long	nw.	cloudy.
S. S. Gellert, Hamburg, Germany	29.36	745.7	50	10.0	86	s.			5		10		sw.	3 h'r	3 h'r			covered.
S. S. Silesia, N. 43° 40′, W. 55° 20′	30.40	772.1	48	8.9		ene.			3		10		ne.	0	0	mod.	ne.	overcast.
S. S. Westphalia, N. 49° 18′, W. 32° 05′	29.91	759.7	52	11.1	79	nw.			5–6		5		nw.	2 h'r	2 h'r	r'gh	nw.	squally.
S. S. Nessmore, off Galley Head, Ireland	29.33	745.0	58	14.4	76	s.			6		10		s.	8 h'r	8 h'r	mod.	w.	raining.
S. S. Bulgarian, N. 49° 09′, W. 37° 42						w.			6		3		w.	3 h'r	3 h'r	high	nnw.	squally.
S. S. Hevelius, Liverpool, Eng †	29.39	746.5	54	12.2		wnw.			7				wnw.	5 h'r	5 h'r			cloudy.
S. S. Rosse, N. 23° 44′, W. 21° 36′*	30.15	765.8	77	25.0		nne.			6				nne.	0	0	light	n.	clear.
S. S. Lampassas, N. 37° 40′. W. 74° 25′			70	21.1		ne.			6		5?		ene.	0	0	mod.	ene.	cloudy.
S. S. Chalmette, N. 27° 40′ W. 80° 05′†	30.07	763.8	77	25.0		ese.			6		10		ese.	4 h'r	4 h'r	r'gh	ese.	cloudy.
S. S. Lone Star, N. 27° 55′. W. 87° 35′*†	30.00?	762.0?	80	26.7		ese.			5		3		ese.	4 h'r	4 h'r	h'vy	ese.	clear.
S. S. Alleghany, Baltimore, Md†	30.67	779.0	42	5.6		ne.			2		10		e.	0	0			cloudy.
S. S. Archimede, New York. N. Y †	30.55?	776.0?	50	10.0		ene.			3		0			0	0			clear.
S. S. City of Washington, N. 24° 19′, W. 81° 05′*†	30.10	764.5	84	28.9		ne.			4		8		ne.	0	0	light	ene.	fine.
S. S. Cienfuegos, St. Jago, Cuba, W. I.			79	26.1							0			0	0			clear.
S. S. Denmark, London, Eng †	29.52	749.8	64	17.8		wsw.			6		8		wsw.	0	0			fair.
S. S. Egypt, N. 45° 44′, W. 12° 25′	30.20	767.1	54	12.2		nw.			5		8		nw.	0	0	h'vy	nw.	fair.
S. S. Grecian, N. 55° 44′, W. 9° 37′	29.12	739.6	55	12.8	93	w.			4		9		wsw.	5 h'r	5 h'r	mod.	sw.	squally.
S. S. Erin, N. 49° 45′, W. 12° 07′			52	11.1		w.			7		10			16 h'r	16 h'r	r'gh	w	squally.
S. S. Elbe, N. 46° 47′. W. 47° 50′	30.28	769.2	41.9	5.5	93	w.			1–2		10		w.	0	0	long	nw.	cloudy.
S. S. Habsburg, N. 43° 30′. W. 57° 10′	30.40	772.1				n.			4		8		ne.	1 h'r	1 h'r	mod.	n.	cloudy.
S. S. Orinoco, New York, N. Y †	30.58	776.7	46	7.8		nne.			2		0			0	0			clear.
S. S. Neckar, N. 43° 48′, W. 52° 30′	30.42	772.7	52.0	11.1	86	n.			4		7		nw.	0	0	mod.	n.	fair
S. S. Oder, N. 49° 37′, W. 6° 56′	29.63	752.6	59.0	15.0		sw.			4–5		8		w.	1 h'r	1 h'r	long	wsw.	cloudy.
S. S. Ohio, N. 34° 41′, W. 65° 09′	30.18	766.6				n.			4–6		10		n.	3 h'r	3 h'r	h'vy	n.	cloudy.
S. S. Salier, N. 44° 51′, W. 50° 51′*	30.33	770.4	45.5	7.5		e.			1		10		e.	0	0	high	ne.	covered.
S. S. Strassburg, N. 43° 37′ W. 53° 29′	30.36	771.1	48.0	8.9	85	ne.			3		8		ne.	0	0	4	n.	cloudy.
S. S. Weser, N. 26° 46′. W. 88° 55′	30.06	763.5	81.5	27.5		e.			5		2		ese.	0	0	r'gh	ese.	clear.
S. S. City of Augusta, New York, N. Y †	30.67	779.0				nne.			2		2		nne.	0	0			clear.
S. S. Muriel, N. 30° 45′, W. 68° 46′	30.12	765.0	74	23.3		ne.			4		10			sh'rs	sh'rs	r'gh	ne.	drizzling.
S. S. Belgenland, N. 42° 25′. W. 57° 30′ †	30.38	771.6	50	10.0	86	ne.			6		9		ene.	1½h'r	1½h'r	long	ene.	cloudy.
S. S. Rhynland, Antwerp, Belgium	29.57	751.1	54	12.2		sw.			6		6		sw.	0	0			fair.
S. S. Pennland, Antwerp, Belgium			52	11.1	79	w.			5		3		wsw.	0	0			clear.
S. S. Vaderland, Delaware river	30.49?	774.4?	58	14.4		ne.			4		3?		ne.	0	0			cloudy ?
S. S. Waesland, N. 40° 51′, W. 68° 05′	30.52	775.2	46	7.8		n.			6		8		n.	0	0	sm'h		cloudy.
S. S. Leerdam, N. 45° 45′, W. 50° 50′			49.3	9.6	91	w.			1		7		nw.	0	0	3	nw.	squally.
S. S. Zaandam, N. 46° 21′ W. 39° —	30.21	767.3	56.1	13.4	80	nnw.			6		8		wnw.	10 h'r	10 h'r	high	nnw.	cloudy.
S. S. Caracas, N. 14° 54′, W. 68° 20′*†	30.00	762.0	84	26.9	83	e.			4		2		e.	1 h'r	1 h'r	sm'h		clear.
S. S. W. A. Scholten, New York, N. Y	30.57?	776.5?	51.8	11.0	52	ne.			3				ne	0	0			
S. S. Valencia, N. 29° 34′, W. 70° 44′ *†	30.15	765.8	77.5	25.3	80	nne.			6		3		nne.	3 h'r	3 h'r	h'vy	n.	fine.
S. S. State of Indiana, N. 40° 28′, W. 70° 48′			44	6.7		n.			4		4		nne.	0	0	sm'h		fair.
S. S. State of Nebraska, N. 49° 54′, W. 40° 12′*†	30.02	762.5	44	6.7		nw.			6		5		nw.	2½ hr	2½hr	high	nw.	hail squalls
S. S. State of Alabama, N. 55° 31′, W. 80° 03′*†	29.20	741.7	48	8.9		wnw.			7		10		wnw.	0	0	h'vy	wnw.	squally.
S. S. Thingvalla, N. 43° 04′, W. 60° 25′ †	30.50?	774.7?	45.5	7.5		nne.			3		6		nne.	1 h'r	1 h'r	mod.	nne.	fair.
S. S. Otranto, N. 40° 10′, W. 72° 38′			62	16.7		n.			4		5?		n.	0	0	sm'h	n.	clear ?
S. S. Romano, N. 39° 20′, W. 63° 30′			59	15.0		nne.			6		6?		nne.	0	0	high	nne.	clear?
S. S. Salerno, N. 49° 13′ W. 39° 37′			47	8.3		wsw.			6		5		w.	0.5	13.	h'vy	w.	raining.
S. S. Ontario, N. 55° 42′, W. 34° 56′	29.31	744.5	39.5	4.2		wnw.			8		2		var.	4 h'r	4 h'r	high	var.	squally.
S. S. Quebec, N. 49° 38′, W. 60° 00′	30.29	769.4	38	3.3		w.			2		3		nw.	0	0	sm'h		clear.
S. S. Lake Huron, N. 54° 31′, W. 43° 23′	29.60	751.8	32	0.0		w.			7		5		wnw.	10 h'r	10 h'r	high	nw.	squally.
S. S. Lake Manitoba, N. 55° 54′, W. 28° 04′	29.23	742.4	42	5.6		wnw.			7		5		nw.	4 h'r	4 h'r	h'vy	nw.	squally.
S. S. Britannic, N. 47° 25′ W. 44° 40′ †	30.22	767.6	44	6.7		w.			4		3		w	0	0	long	nw.	d. clouds.
S. S. Celtic, Liverpool, Eng †	29.42	747.3	55	12.8		sw.			5		8		sw.	4 h'r	4 h'r	sm'h		squally.
S. S. Germanic, N. 41° 37′, W. 51° 32′ *†	30.29	769.4	56	13.3		ene.			5		10		e.	½ h'r	½ h'r	short	ene.	gloomy.
S. S. Assyrian Monarch, N. 40° 33′, W. 71° 00′	30.65	778.5				ene.			3		3		ne.	0	0	sm'h		clear.
Bk. Arda, N. 22° 14′, W. 42° 00′						se.			2		5?		se.	4 h'r	4 h'r	r'gh	se.	cloudy?
Bk. Ariadne, N. 59° 13′, E. 0° 20′			50	10.0	86	sw.			4		6		ssw.	3 h'r	3 h'r	cross	var.	fair.
Schr. Arthur Burton, Charleston, S. C.†	30.35	770.9				nne.			6		10		nne.	0	0	chop	nne.	cloudy.
Schr. Abbie H. Gheen, Baltimore, Md†	30.69	779.5	50	10.0		ne.			4									cloudy.
S. S. Antonio Lopez, Cadiz, Spain *	30.26	768.6	73.5	23.1	67	n.			2		1			0	0			clear.
Bg. Alcira, N. 32° 59′, W. 70° 45′	30.32	770.1	72	22.2		ene.			4		10		ene.	0	0	mod.	ne	cloudy.
Bgt. Achsah, N. 44° 40′, W. 66° 43′			39	3.9		nnw.			5		2		nnw.	0	0			clear
Schr. Adda Doane, Demerara, British Guiana *†	29.94	760.5				sw.			1		3		sw.	1 h'r	1 h'r			clear.
Bg. Belle of the Bay, N. 28° 05′, W. 91° 32′†	29.95?	760.7?				ese.			6		7		ese.	light	light	chop	se.	threatening

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Benledi, N. 40° —', W. 9° 45' *	30.27	768.8	66	18.9	94	w.			1-2		9		nnw.	0	0	long	nnw.	hazy.
Bk. Ceylon, N. 5° 42', W. 29° 03'†	29.93	760.2	84	28.9	82	sse.			3		1		sse.	½ h'r	½ h'r	sm'h	sse.	fine.
Schr. Clotilde, N. 23° 52', W. 80° 21' †	30.02	762.5	83	28.3		ene.			4		10		e.	1 h'r	1 h'r	mod.	e.	cloudy.
Schr. C. R. Flint, N. 7° 22', W. 58° 40'†	30.01	762.2	83	28.3		ene.			3		4		ene.	0	0	long	ne.	fair.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I.*†	30.00	762.0	81	27.2	87	se.			2		4		ese.	2 h'r	2 h'r			fair.
Bk. Diamant, N. 53° 55', E. 7° 20'	29.29	744.0	54.1	12.3	90	wsw.			9		10		wsw.	2 h'r	2 h'r	6	wsw.	squally.
S. Dynomene, N. 6° 20', W. 22° 40'	29.94	760.5	80	26.7	96	ssw.			2		6			mod.	mod.	light	var.	misty.
S. E. J. Spicer, N. 43° 15', W. 46° 30'	30.20	767.1	58	14.4	88	nne.			5		10		nw.	10 h'r	10 h'r	mod.	nw.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	29.89	759.2	82	27.8		se.			6					1 h'r	1 h'r			fine.
S. Festina Lente, N. 52° 39', W. 24° 06'	29.57	751.1	46	7.8		w.			6		9		w.	2 h'r	2 h'r	mod.	w.	raining.
U. S. Fish Com S.S. Fish Hawk, Newport, R. I.†	30.55?	776.0?	42	5.6	83	nne.			2		0			0	0			clear
Bg. George, N. 39° 05', W. 73° 25'*†	30.56	776.2	52	11.1		nne.			2		10		ne.	0	0	mod.	nne.	clearing.
Bk. Galeon, N. 22° 34', W. 61° 10' †	30.05	763.3	82	27.8		e.			2		4		ne.	0	0	sm'h	ne	squally.
Bk. Hattie G. McFarland, N. 30° 40', W. 68° 00'†	30.22?	767.6?	72	22.2		ne.			7		8		ne.	2 h'r	2 h'r	r'gh	ne.	
S. Hedwig, N. 25° 54', W. 68° 21'	30.11	764.7	80.4	26.9	88	nne.			3		5		nne.	0	0	2	ne.	fine.
Bk. Heinrich & Tonio, N. 48° 15', W. 15° 30'†	29.74	755.4	57.5	14.2		w.			5		10		w.	0	0	mod.	w.	overcast.
Schr. Isabel Alberto, N. 27° 45', W. 80° 00' †	30.16?	766.1?				e.			5		10		e.	h'vy	hv'y	h'vy	ne.	stormy.
Schr. Jennie N. Huddell, Smithville, N. C.†	30.39	771.9	58	14.4	76	ne.			5		8		ne.	0	0			cloudy.
Bk. John H. Pearson, N. 28° 45', W. 19° 18'						ne.			5				ne.	0	0	long	nnw.	cloudy.
Schr. John Bracewell, New London, Conn						n.			2		0			0	0			clear
Bg. Josefa, Little Glace Bay, N. S.†	30.50	774.7				nnw.			5		2		nnw.	0	0			clear.
Bkt. John Baizley, Sandy Hook, N. J.*†	30.66	778.7				ne.			4		0			0	0			clear.
Bk. Lady Hincks, N. 42° 15', W. 69° 00' *†	30.50?	774.7?												0	0			clear.
Bg. Lilian, N. 33° 02', W. 74° 28'†	30.31	769.9	71	21.7		ne.			0		6		ne.	0	0	r'gh	ene.	fair.
S. S. Madrid, N. 36° 50', E. 23° 36' †	30.20	767.1	71	21.7	80	ne.			2		3		ne.	0	0	sm'h		fair.
Bk. Matilda C. Smith, N. 48° 35', W. 10° 06'*†	29.75	755.6				wsw.			5		7		wsw.	sh'rs	sh'rs	r'gh	wnw.	threatening.
Bk. Matthias, N. 40° 08', W. 41° 50'*†	30.13	765.3	73.0	22.8		ese.			4-6		3		e.	1 h'r	1 h'r	3	var.	squally
Schr. Norena, N. 30° 20', W. 62° 40'						sw.			3		2		wsw.	2 h'r	2 h'r	long	nw.	fine.
Bk. National Eagle, N. 37° 11', E. 11° 15'						nw.			5					0	0	sm'h		fair.
Schr. Rollin Sanford, Milton, Fla.†	30.22	767.6				e.			4		10		ese.	0	0			cloudy.
Bg. Rising Sun, Barbadoes, W. I.†	29.99	761.7	82	27.8		e.			4		10		e.	hv'y	hv'y			squally.
Bk. Rosalie, N. 7° 01', W. 27° 19'*†	29.93	760.2				ese.			2		4		e.	1½ h'r	1½ h'r	light	n.	showery.
Bk. Saga, N. 53° 42', E. 3° 58'*†	29.27	743.4	56	13.3		var.			7-9		7		var.	2½ h'r	2½ h'r	r'gh	var.	fair.
S. Salisbury, N. 36° 01', W. 5° 01'	30.23	767.8	74	23.3	84	calm			0		0			0	0	mod.		clear.
Bgt. Sunlight, N. 36° 37', W. 68° 31'†	30.29	769.4				ene.			5		6		ne.	1 h'r	1 h'r	r'gh	ene.	fair.
Bk. Samuel B. Hale, N. 29° 07', W. 32° 48'						ese.			5				ese.			short	se.	clear.
Bk. Sunbeam, N. 51° 53', E. 3° 40' †	29.44	747.8	58	14.4	88	wsw.			9		0			4 h'r	4 h'r	h'vy	wsw.	clear.
S. St. Francis, N. 35° 08', W. 43° 50' *†	30.30	769.6	78	25.6		s.			3		3		s.	0	0	long	ne.	fair.
Bk. Southern Belle, N. 34° 35', W. 9° 15'†	30.15	765.8				ene.			6		5			0	0	h'vy		
Schr. Walter L. Plummer, N. 23° 55', W. 44° —'*†	30.10	764.5				w.			1		10		sw.			mod.	se.	
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.74	755.4	65	18.3	89	w.			2		8	nw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.15	765.8	63	17.2	94	e.			3		3	e.						blue sky
H. M. S. Sylvia, Montevideo, Uruguay	29.81	757.2	64	17.8	78	w.			2		10							showery
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.97	761.1	78.8	26.0	76	sw.			3		8		sw.	0	0	1		overcast.
U. S. S. Brooklyn, S. 35° 21', W. 18° 51'*	29.79	756.7	53	11.7	86	s.	25	11.2			10		s.	0.20	5.1	r'gh	s	light rain.
U. S. S. Nipsic, Montevideo, Uruguay *	29.78	756.4	65	18.3	89	w.			1		10		calm			sm'h		cloudy.
S. S. Teneiro, S. 28° 18', W. 47° 47'	30.15	765.8	70.4	21.3	82	nne.			0		6 kn			0.50	12.7	4	var.	squally.
S. S. Sirius, S. 13° 33', W. 36° 37'	30.05	763.3				ese.			5		9		ese.	8 h'r	8 h'r	r'gh	ese.	cloudy.
Bk. Alphous Marshall, S. 10° 00', W. 23° 30' *†	29.94	760.5	77	25.0	95	ese.			4		2		ese.	0	0	sm'h		fair.
Bk. Adelaide, S. 22° 05', W. 40° 12'*†	30.28	769.1	76	24.4		ese.			5		1		ese.	2 h'r	2 h'r	mod.	ese.	clear.
S. David Crockett, S. 27° 09', W. 26° 09' *	30.07	763.8	64.5	18.1	65	ssw.			4		4		ssw.	4 h'r	4 h'r	mod.	s.	d. clouds.
Bk. E. L. Pettingill, S. 55° 50', W. 65° 04'*†	29.50	749.3	59	15.0		e.			3		10		s.	3 h'r	3 h'r	mod.	wsw.	gloomy.
Bk. Grey Eagle, Rio de Janeiro, Brazil *†	30.00	762.0				ese.			4		2		ese.	0	0	short	se.	clear.
Bg. John Wesley, Natal, Brazil*†	29.84	757.9	81	27.2		ene.			4		2		ene.	0	0			clear.
Bkt. Louise Adelaide, Buenos Ayres, La Plata†	29.95	760.7				sw.			2		10		sw.	8 h'r	8 h'r			raining.
S. S. Mendoza, S. 9° 32', W. 32° 48'†	30.10	764.5				calm			0		0			0	0	sm'h	s.	
Bk. Mohican, S. 40° 35', E. 15° 30'	30.01	762.2	54	12.2		wsw.			7		10		wsw.	0	0	long	ssw.	cloudy.
Bk. Pilgrim, S. 2° 52', W. 28° 20'*†	30.00	762.0				ese.			2		2		ese.	0	0	mod.	ese.	clear.
Bgt. Willie, Montevideo, Uruguay*†	29.80	756.9	67	19.4		w.			3		8		w.	2 h'r	2 h'r	sm'h		cloudy
Bk. Childwall, S. 23° 48', W. 37° 04' *	30.09	764.3	74	23.3		se.			4		3		se.	0	0	short	se.	fair.
Bk. Achille F, S. 11° —', W. 33° 45'†	30.00	762.0	76	24.4		ne.			3		8		se.	6 h'r	6 h'r	long	s.	cloudy
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan			68	20.0	84	calm			0		2	ne.						blue sky
H. M. S. Champion, Singapore, Malay Peninsula	29.86	758.4	84	28.9	91	calm			0		7							d. clouds.
H. M. S. Flying Fish, N. 32° 45', E. 129° 52'	30.16	766.1	69.5	20.8	72	calm			0		5	ne.						misty.
H. M. S. Zephyr, N. 25° 59', E. 119° 25'	30.14	765.5	73	22.8		ne.			1		7							d. clouds.
H. P. M. S. Tamega, Canton, China	30.07	763.8	82.0	27.8	81	ese.			3		0			¼ h'r	¼ h'r			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.06	763.5	60	15.6	63	nnw.			1		0			light	light			foggy.
U. S. S. Essex, Nagasaki, Japan	30.17	766.3	70	21.1	85	ne.			1		5		ne.					fair.
U. S. S. Hartford, off Amapata, Honduras*	29.91	759.7	76	24.4	91	n.			1		10		n.	7 h'r	7 h'r	sm'h		cloudy.
U. S. S. Juniata, Canton, China	30.02	762.5	80	26.7	91	sse.			1		0			light	light			clear
U. S. S. Monocacy, N. 37° 28', E. 126° 36'	30.19	766.8	65	18.3	89	ene.			1		8		calm					fair.
U. S. S. Pensacola, Yokohama, Japan*	29.98	761.5	65	18.3	54	nnw.			5		2			0	0			clear.
U. S. S. Ranger, Mare Island, Cal	30.03	762.7	53	11.7	80	calm			0		2			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.04	763.0	64	17.8	67	wnw.			2		0			0.03	0.8			clear.
S. S. Oceanic, N. 35° 36', E. 144° 20'	30.08	764.0	70	21.1	90	w			3-4		3		w	0	0	3	nw.	fair.
S. S. Columbia, N. 45°, 26', W. 124° 14'†	29.96	761.0	53.5	11.9	77	nnw.			4		3		nnw.			mod.	nnw.	squally.
S. S. Ancon, Point Vincent, Cal.†	29.98	761.5	59	15.0	81	e.			3		0			0	0	light	w.	clear.
S. S. Dakota, N. 45° 10', W. 124° 51'†	30.03?	762.7?	56	13.3		nw.			2		8?		nw.	0	0	mod.	wnw.	clear.?
S. S. Queen of the Pacific, N. 42° 00', W. 124° 45'†	30.11	764.8	51	10.6	100	nw.			0		0			2 h'r	2 h'r	mod.	wnw.	cloudy
S. S. Victoria, N. 46° 46', W. 124° 45'†	29.90	759.4	53	11.7	79	n			7		5?		n.			high	n.	cloudy?
S. S. City of Pekin, N. 30° 44', E. 132° 02'†	30.14	765.5	78	25.6	82	nne.			5		0			0	0	sm'h		clear.
S. S. City of Tokio, N. 40° 50', W. 148° 06'			61	16.1	88	ese.			1		1		ese.	0	0	sm'h		clear.
S. S. Colima, Acajutla, San Salvador†	29.92	760.0	80	26.7	82	nne.			2		7		se.	1.35	34.3	r'gh	sw.	cloudy
S. S. Granada, N. 30° 39', W. 116° 52' †	29.94	760.5	68	20.0	74	nw.			3		10?		nw.	1 h'r	1 h'r	mod.	wnw.	clear?
S. S. San Blas, La Libertad, San Salvador†	29.96	761.0	70	21.1		w.			0		10		w.	5 h'r	5 h'r		w.	cloudy.
S. S. San Juan, N. 32° 14', W. 119° 52'†	30.03	762.7	59	15.0		w.			2		10s			0	0	light	wnw.	fine.
S. S. Alameda, N. 33° 45', W. 131° 09' †	30.25	768.3	63	17.2		nnw.			4		10		wnw.	0	0	light	nnw.	cloudy.
S. Parker M. Whitmore, N. 30° 14', W. 124° 00' *†	30.04	763.0	63	17.2		n.			3		9		n.	0	0	mod.	nnw.	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52', E. 156° 08'	29.91	759.7	79.3	26.3	91	s.			4		7					sm'h		squally.
H. M. S. Magpie, S. 5° 55', E. 106° 28'	29.86	758.4	83.4	28.6	75	nw.			2		0							misty.
H. M. S. Nelson, Sydney, N. S. W	30.15	765.8	52	11.1	93	w.			1		5	w.						d clouds.
U. S. S. Iroquois, Callao, Peru	30.10	764.5	62	16.7	88	calm			0		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.10	764.5	55	12.8	93	calm			0		8		sw.					cloudy.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	62	16.7	88	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili *	30.11	764.8	60	15.6	82	calm			0		0					sm'h		clear.
S. S. Australia, Sydney, N. S. W	29.93	760.2	61	16.1	94	s.			0		6		s.	0	0			cloudy.
S. S. City of New York, S. 34° 20', E. 170° 40' †	30.15	765.8	59	15.0	88	wsw.			4		0			4 h'r	4 h'r	h'vy	w.	clear.
S. S. City of Sydney, S. 0° 45', W. 166° 21'*†	29.86	758.4	81	27.2	74	e.			3		2 k		e.			light	ene.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific—Continued.																		
S. E. B. Sutton, S. 6° 10′, W. 127° 50′*†	29.96	761.0	77	25.0	86	e.	.....	.....	5	.....	5	.....	ese.	0	0	mod.	var.	fair.
S. Sovereign of the Seas, S. 1° 03′, W. 114° 02′*†	30.16	766.1	77	25.0	86	se	.....	.....	3	.....	3	.....	.....	0	0	mod.	sse.	clear.
S. Armenia, S. 38° 06′, W 120° 13′*	30.28	769.1	57	13.9	75	n.	.....	.....	4	.....	10	.....	.....	0	0	sm'h	ssw.	overcast.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.17	766.3	66	18.9	.....	se.	.....	.....	5	.....	10	.....	se.	.....	.....	long	se.	overcast
S. Storm King. S. 13° 11′, W. 124° 01′*†	30.05	763.3	.....	.....	.....	ese.	.....	.....	5	.....	1	.....	ese.	0	0	sm'h	se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.90	759.4	79	26.1	82	sw.	.....	.....	2	.....	2	calm	.....	.....	.....	.....	.....	blue sky
H. M. S. London, Zanzibar, Zanzibar	29.98	761.5	80	26.7	96	se.	.....	.....	2	.....	2	ese.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Shat el Arab River, Turkey	30.02	762.5	92.5	33.6	49	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Bk. Bore, S. 35° 14′ E. 20° 15′*†	30.55	776.0	66	18.9	.....	wsw.	.....	.....	3	.....	4	.....	wsw.	0	0	mod.	sw.	fair.
S. Frank N. Thayer, S. 34° 39′, E. 27° 43′*†	29.95	760.7	65	18.3	84	s.	.....	.....	6	.....	5 k	.....	s.	rain	rain	mod.	ssw.	d. clouds.
Bk. Great Surgeon, S. 34° 10′. E. 92° 37′*†	30.05	763.3	58	14.4	.....	nw.	.....	.....	5	.....	4	.....	sw.	1 h'r	1 h'r	mod.	sw.	fair.
S. S. Radnorshire, Suez Canal Egypt*†	30.10	764.5	.....	.....	.....	nw.	.....	.....	2	.....	2	.....	nw.	0	0	r'gh	nw	fine.
S. S. Galatia, N. 11° 00′, E. 65° 13′†	29.73	755.1	81	27.2	87	sw.	.....	.....	6	.....	8	.....	sw.	2 h'r	2 h'r	rg'h	sw.	stormy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 18, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.26	768.5	70.5	21.4	84	ne.			1		0			0	0	clear	Roziere.
Algiers			30.28	769.2	70.5	21.4	74	n.			3		0			0	0	clear	Thève.
La Calle			30.28	769.0	83.1	28.4	39	nnw.			1		1			0	0	very fair	Fonfrède.
Tunis			30.27	768.8	72.7	22.6	57	nw.			4		3			0	0	pretty fair	Delord.
Saida			30.01	762.2															Pérès.
Tebessa			30.28	769.0	66.6	19.2	70	se.			2		0			0	0	clear	St. Martin.
Geriville					75.2	24	10	ne.			1		0			0	0	clear	Forfert.
Laghouat			30.28	769.0	72.7	22.6	43	n.			1		0			0	0	clear	Abraham.
Biskra			30.31	769.9	74.5	23.6	29	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.99	761.7	63.4	17.4	46	e.	19	8.5		2 cs				0.098	2.5	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.99	761.7	30.08	764.0	48.0	8.9	85	wnw.	7	3.1			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.8	29.94	760.4	66.2	19.0	62	sw			4		10			0.358	9.1		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.01	736 8	29.76	755.9	61.0	16.1	68	sw.	14.3	6.4			10			0	0		Dr. Wierzbiski
Eperies	29.03	737.3	29.91	759.6	52.5	11.4	88	s.			3		fg		n.	inap.	inap.		Julius Mikolik.
Gratz	28.69	728.7	29.92	760.0	60.3	15.7	73	se.			1		2			0.059	1.5		Andreas Rospini.
Hermannstadt	28.60	726.5	30.01	762.2	60.4	15.8	61	se.			1		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.77	730.8	30.13	765.4	47.3	8.5	87	sw.			3		10			0.307	7.8	gloomy	The Staff.
Lemberg	28.86	733.0	29.83	757 7	57.2	14.0	70	sw.			6		10			0.063	1.6		Dr. T. Stanecki.
Pola	29.95	760 8	30.06	763.6	67.8	19.9	83	ssw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.48	748.8	29.94	760.5	58.6	14.8	64	e.			4		9			0.185	4.7		Joseph Midlinesky, S. J
Szegedin	29.68	753.8	29.95	760.8	64.0	17.8	65	sw.			2		8			0.114	2.9		Karl Stanel.
Trieste	29.98	761.5	30.08	764.0	65.8	18.8	82	sw.			1		10			0	0		Royal Academy.
Vienna	29.28	743.8	29.99	761.8	59.0	15.0	85	w.			4		10			0.161	4.1	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.31	744.5	29.41	747.0	47.6	8.7	53	wsw.	27	12.1			4			0	0	squally	W. Boswell.
Armagh, Observatory	29.54?	750.3?	29.78?	756.4?	45.0	7.2	76	sw.	16	7.2			7					squally	S. Oall.
Bidston, Liverpool Obs'y			29.82	757.4	50.0	10.0	63	wsw.	48	18.2			8					overcast	John Hartnup.
Bolton, Sharples	29.29	744.0	29.83	757.7	47.4	8.6	64	wsw.	18	8.0			8					showery	Thomas Mackereth.
Bradford, Yorkshire	29.40	746.7	29.79	756.7	47.1	8.4	67	nw.			6		7			0.19	4.8	raining	McLandsborough & Preston.
Cardington	29.82	757.4	29.93	760.2	55.2	12.9	49	w.			7.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.85	758.2	30.02	762.5	54.7	12.6	53	w.			1		5			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.96	761 0	30.19	766.8	53.1	11.7	61	w.			4		4					d. clouds	The Staff.
Fort Napier, Natal	27.74	704.6	29.96	761.0	61.2	16.2	82	se.			1		10					overcas	C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	85	29.4	76	w.			4		0?					raining?	J. W. Smith.
Galway, Queen's College	29.60	751.8	29.64	752.8	47	8.3	85	sw.			6		7			0.50	12.7	threatening.	Wm. Ryan.
Gibraltar, Mediterranean	30.20	767.1	30.25	768.3	73.0	22.8	90	e.			3		0					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.37	746.0	29.57	751.1	46.3	7.9	69	wsw.			3		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.84	757.9	30.01	762.2	55.0	12.8	59	wsw.			6		7					d. clouds	The Staff.
Guernsey	29.93	760.2	30.23	767.8	54.2	12.3	80	w.			4		8					showery	A. Collenette, F. M. S
Kew, Observatory	29.99	761.7	30.02	762.5	52.9	11.6	52	w.	22	9.8			4					d. clouds	The Staff.
Leicester, Museum	29.66	753.4	29.92	760 0	51.3	10.7	57	sw.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	30.10	764.5	30.18	766.6	73.4	23.0	52	nw.			2					0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.99	761.7	30.04	763.0	78.0	25.6	91	e.			2		7			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.41	747 0	29.94	760.5	49.0	9.4	78	wsw.			6		4					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.77	756.1	30.00	762.0	52.7	11.5	52	wsw.			6		3					blue sky	The Staff.
Plymouth	30.07	763.8	30.15	765 8	54.0	12.2	74	wsw.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.09	738.9	29.19	741.4	45.5	7.5	90						6					hailing	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.00	762.0	30.07	763.8	62.8	17.1	53	n.			1		10					overcast	W. H. Lyne.
Sheffield	29.56	750.8	29.84	757.9	51.2	10.7	72	sw.			5		1			0.08	2.0	blue sky	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.68	753.9	49.5	9.7	76	w.			6		5			0.035	0.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.82	757.4	47.5	8.6	62	w.	34	15.2			7			blank	blank	d clouds	Rev. S. J. Perry.
Strathfield Turgiss					53.3	11.8	67	w.			1.5		8					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.16	766.0	30.24	768.0	57	13.9	63	w.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.03	762.7	30.06	763.5	52.4	11.3	64	w.	35	15.6			7			blank	blank	d. clouds	The Met'g'l Office
Sub-series.																			
Goro, Episcopal Seminary	29.86	758.4	30.25	768.3	69.8	21.0	52	nw.	6.3	2.8		4 c	0	w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.54	775.7	30.58	776.7	33.0	0.6		s.	5	2.2		2 cs	0	n.		0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.53	775.4	30.58	776.7	38	3.3	74	w.	4	1.8		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.51	774.9	30.58	776.7	27	— 2.8	80	sw.	2	0.9		10 c	0	sw.		0	0	fair	G. A. Blair.
Cornwall, Ontario	30.18	766.6	30.38	771.6	33.2	0.7	74	se.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B	30.48	774.2	30.53	775.4	34.0	1.1		w.			1	0	0			0	0	blue sky	H A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.47	773.9	30.49	774.4	40	4.4	86	wsw.	15	6.7		2 cs	2 cs	calm	calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.44	722.4	29.26	743.2	41	5.0	100	n.	7	3.1			10 n		n.	1.00	25.4	light rain.	James Stewart.
Fredericton, N. B	30.56	776.2	30.63	778.0	25.0	— 3.9	81	calm	0	0		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	30.56	776.2	30.62	777.7	41	5.0	70	calm	0	0		2 c	0	nw.		0	0	fair	J. Chipman Seeley
Granton, Ontario	29.08	738.6	30.19	766.8	46.0	7.8	84	s.	12	5.4		3 cs	0	w.		0	0	blue sky	Jas. Grant.
Halifax, N. S*	30.48	774.2	30.62	777.7	34	1.1	89	w.	4	1.8		0	0			0	0	hazy	A. Allison.
Hamilton, Ontario	29.81	757.2	30.21	767.3	37.5	3.1	94	sw.			2	3 c	0	sw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	30.06	763.5	30.40	772.1	43	6.1	68	se.	19	8.5		2 ck	0	e.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.50	774.7	30.54	775.7	41.2	5.1	86	nw.			3		10 n			0	0		C. H. Rigby.
London, Ontario	29.28	743.7	30.20	767.1	47.2	8.4	89	s.			3	0	9 ks			0.250	6.3	cloudy	E. B. Reed.
Medicine Hat, N. W. T	27.47	697.7	29.81	757.2	32	0.0	96	w.	30	13.4			10 n			0.43	10.9	sleeting	John Ewart.
Minnedosa, N. W. T	27.43	696.7	29.34	745.2	33	0.6	92	ne.	10	4.5			10 n		ne.	0.73	18.5	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.27	768.8	30.49	774.4	35	1.7	79	s.	14	6.3		0	0			0	0	clear	C. H. McLean, C. E.
Ottawa, Ontario	30.19	766.8	30.42	772.7	29.4	— 1.4	88	e.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.45	748.0	30.16	766.1	42	5.6	83	s.	24	10.7		2 cs	2 ks	w.	w.	0	0	fair	Rev. E. Mosley.
Peterboro, Ontario	29.54	750.3	30.30	769.9	39.7	4.6	72	ne.			2	3 cs	0	ne.		0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	28.04	727.4	29.35	745.5	50	10.0	100	se.	4	1.8		5 ks	2 s		s.	0.48	12.2	clearing	W. P. Cooke.
Port Dover, Ontario	29.53	750.0	30.23	767.8	50	10.0	86	s.	14	6.3		10 c	0	w.		0	0	fair	H. Morgan
Port Stanley, Ontario	29.55	750.6	30.20	767.0	50	10.0	80	se.	12	5.4		2 ck	5 k	sw.	sw.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.26	692.4	29.54	750.3	34	1.1	96	n.	12	5.4			10 n		calm	0.63	16.0	sleeting	Leslie Gordon.
Quebec, Quebec*	30.15	765 8	30.53	775.4	31	— 0.6	96	calm	0	0		0	0			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.81	757.2	30.29	769.4	34	1.1	79	se.	20	8.9		5 c	0	nw.		0	0	threatening	W. H. McIntyre.
St. Andrews, N. B	30.57	776 5	30.62	777.7	34	1.1	89	calm	0	0		0	0			0	0	clear	
St. John, N. B	30.47	773.9	30.62	777.7	33.0	0.6	81	nw.	1	0.4		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	30.17	766.3	30.43	772.9	38	3.3	90	nw.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.40	772 0	41.0	5.0		ne.			2								The Commandant.
Saugeen, Ontario*	29.33	745.0	30.05	763.3	46	7.8	83	s.	26	11.6		0	0			0	0	clear	
Stratford, Ontario	28.87	733.3	30.18	766.6	41.7	5.4	91	se.	8.5	3.8		2 c;cs	1 s	sw.		0	0	blue sky	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
CANADIAN—Continued.																			
S. W. Point, Anticosti	30.42	772.7	30.46	773.7	38	3.3	92	s.			2	8 ck	0			0	0	fair	
Sydney, C. B.	30.48	774.2	30.55	776.2	38	3.3	82	calm	0	0			10 ks		n.	0	0	cloudy	Miss Grace Pope.
Toronto, Ontario	29.88	758.9	30.27	768.8	45	7.2	83	se.	8	3.6		0	0			0	0	clear	A. C. [illegible], C. E.
Woodstock, Ontario	29.16	740.7	30.25	768.3	42.8	6.0	84	se.	13	5.8		0	5 ks			0	0	d. clouds	[illegible] Observatory.
Yarmouth, N.S*	30.55	776.0	30.62	777.7	37	2.8	79	calm	0	0		5 c	0	n.		0	0	fair	Prof. N Wolverton, M.A.
CAPE COLONY																			Lt. F. E. Wilmot, R. N.
Cape St. Francis Lt.House	30.08	764.0	30.11	764.8	65.5	18.6	78	ne.	7.2	3.2		9 ck	0			0	0	cloudy	
Cape Town	30.00	762.0			77.0	25.0	41	n.				4 cs	0			0	0		I Garfelt.
Springbok Fontein	27.87	707.9			80	26.7	36									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.95	760.7	30.03	762.7	55.4	13.0	88	s.			1	6 cs	0	n.				fair	Samuel Redolez.
Iquique	30.00	762.0	30.03	762.7	62.6	17.0	70	s.			3							cloudy	Rafael Moreno.
Niebla	29.65	753.1	29.76	755.8	46.4	8.0	86	e.			1	1	1 n	s.	w.	0.063	1.6		Federico Kühling.
Punta Caldera	29.97	761.2	30.06	763.4	58.6	14.8	80	sw.			1	6 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.76	755.9	29.95	760.7				sw.			4		3 k	n.	nw.	0.366	9.3	clear	Francisco Alvarado.
Valparaiso	29.96	761.0	30.05	763.2	55.8	13.2	88	sw.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.23	640.8																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.02	762.4	30.04	763.0	67.6	19.8	88	wnw.	6.7	3.0		10 ck				0.008	0.2	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.32	744.6	29.36	745.8	49.1	9.5	72	wnw.	25	11			9						Oversergent Fischer.
Fance	29.47	748.4	29.48	748.9	45.9	7.7	80	wnw.			7		9					raining	Overloerer Lauridsen.
Godthaab, Greenland	29.73	755.1	29.77	756.2	19.8	— 6.8	78	ne.			4		1						S. Kleinschmidt.
Jacobshavn, Greenland	29.47	748.5	29.52	749.7	14.7	— 9.6		e.			1		7						
Stykkisholm, Iceland	28.92	734.6	28.97	735.7	38.8	3.8	73	ne.			10		10						A. O. Thorlacius.
Thorshavn	28.83	732.3	28.85	732.9	43.2	6.2	96	w.	25	11			10					raining	Overloerer Bergh.
Westervig	29.27	743.4	29.36	745.7	48.6	9.2	57	w.			6		7						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.89	759.2			78.3	25.7		n.	2.9	1.3			0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.77	756.1	30.42	772.7	57.2	14	100	nne.			1		n			0.04	1.		M. Labroue, Director.
Alençon, Normal School	29.72	754.9	30.27	768.9	54.7	12.6	72	w.			1				e.	0.134	3.4		M. Nicot, Director
Avignon, Normal School	30.15	765.9	30.23	767.9	73.4	23	54	wnw.			2				w.	0.102	2.6		M. Giraud, Director
Bar-sur-Seine	29.70	754.3	30.26	768.6	56.3	13.5	52	nnw.			2		8 kn		w.	0.264	6.7	very cloudy	M. Saillard, Director
Beauvais, Normal School	29.92	760.0	30.19	766.7	57.2	14	57	w.			4		8		w.	0.04	1.	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.33	744.9	30.22	767.6	45.5	7.5	91	sw.			1		5		ne.	0.79	20.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	30.11	764.9	30.38	771.6	57.7	14.3	85	nne.			1		10			0.150	3.8	covered	M. Rayet, Director.
Bourges, Normal School	29.74	755.4	30.30	769.5	58.1	14.5	52	wsw.			2		8		wsw.	0.244	6.2		M. Malet, Director.
Brest, Naval Observatory	30.08	763.9	30.32	770.1	59.7	15.4	75	w.			2		5		w.	0.020	0.5		M. de Kermarée, Dir.
Caen, Normal School	30.11	764.7	30.18	766.6	59.7	15.4	62	w.			1				w.	0.067	1.7		M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.81	757.2	30.13	765.3	56.5	13.6	56	w.			6		2		w.	0.598	15.2	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.61	752.0	30.11	764.9	55.4	13.0	52	nw.			8		10			0.256	6.5	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.96	735.6	30.33	770.3	55.4	13.0	77	n.			1		10			0.075	1.9		M. Allnard, Director.
Cluny, Normal School	29.46	748.2	30.30	769.7	58.6	14.8	62	ssw.			2					0.130	3.3		M. de Villemontés, Dir.
Commercy, Normal School	29.34	745.3	30.21	767.3	54.1	12.3	56	w.			6		5 kn	w.	w.	1.051	26.7	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.67	702.9	30.17	766.2	64.4	18	65	w.			4		7 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.09	738.9	30.19	766.7	70.9	21.6	48	nw.			4		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.46	748.3	30.23	767.8	57.2	14	78	nnw.			6		kn		sw.	0.87	22.		M. Ablard, Director.
Guéret, Normal School	28.75	730.3	30.36	771.2	54.1	12.3	74	wsw.			1		5 ks		w.	0.31	8.	cloudy	M. Delorme, Dir.
Lamballe, Normal School	29.93	760.1	30.20	767.1	58.3	14.6	57	ssw.			6		5		w.	0	0	cloudy	M. Olliitrault, Director.
Lescar, Normal School	29.79	756.6	30.35	770.8	66.9	19.4	68	w.			3		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.23	767.8	30.33	770.4	60.8	16.0	59	wsw.			2		5		w.	0.008	0.2	½ covered	Lt. T. Carre, Director
Lyon, St. Genis-Laval	29.28	743.6	30.35	771.0	51.4	10.8	97	ene.			1		10 n			0.354	9.0	covered	M. André, Director.
Mans, Normal School	30.00	762.0	30.31	769.9	55.4	13	92	nw.			6		5		nw.	0.335	8.5	cloudy	M. Richard, Director.
Marseille, Observatory	29.96	760.9	30.22	767.7	71.2	21.8	70	wnw.			3		3		wnw.	0	0		M. Stephan, Director.
Montlouis	25.12	638.1	29.97	761.1	59.0	15.0	56	se.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.11	764.7	30.22	767.5	74.3	23.5	65	ne.			1		2	e.		0	0	slightly cl'dy	[illegible], Director.
Nancy	29.42	747.3	30.21	767.4	52.9	11.6	61	ssw.			2		kn			0.622	15.8		M. Hasse, Director.
Nantes, Observatory	30.19	766.9	30.35	771.0	61.2	16.2	55	w.			1		4 kn; k		w.	0.374	9.5		M. Larocque, Director.
Perpignan, Observatory	30.19	766.8	30.30	769.6	71.6	22.0	58	nw.	16.8	7.5			3		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.55	547.3			41.0	5.0		nw.			1		5		nw.	0.039	1.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.16	740.6	30.22	767.6	60.6	15.9	91	n.			1		5	e.	e.	0	0	cloudy	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.38	644.6			38.5	3.6	100	w.			4		10			0.925	23.5	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.31	769.9	30.34	770.7	61.7	16.5	74	wsw.			1		2		w.	0	0	¼ covered	Lt. E. Lecante, Director.
Roche-sur-Yon, N. School	30.18	766.6	30.40	772.1	59.7	15.4	71	sw			1		2		ssw.	0.16	4.	slightly cl'dy	[illegible] Brévier, Director.
Rodez, Normal School	28.03	712.0	30.19	766.8	55.8	13.2	69	nw.					1		w.	1.06	27.	clear	M. Séger, Director.
Rouen, Normal School	30.16	766.0	30.21	767.2	51.8	11	96	w.			1		0			0.075	1.9	clear	[illegible] Moullot, Dir.
St Lô	29.90	759.4	30.08	763.9	57.9	14.4	53	w.			2		5	w.		0.126	3.2	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.07	763.8	30.24	768.0	58.8	14.9	50	sw.			4		1		w.	0.177	4.5	clear	M. Renou, Director.
Toulouse, Observatory	29.66	753.3	30.39	771.9	66.2	19.0	73	w.			4		10	w.		0.039	1.0	covered	M. Baillaud, Director.
Tours	30.14	765.5	30.32	770.0	57.9	14.4	57	w.			4		2	sw.	nw.	0.169	4.3	slightly cl'dy	M. de Lastes.
Versailles, Observatory	29.74	755.5	30.24	768.0	55.8	13.2	50	w.			4		5			0.087	2.2	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.27	768.9	30.42	772.7	66.9	19.4	77	nw.	13.9	6.2			7 k		ne.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.62	727.0	30.08	764.1	51.8	11.0	53	w.			8		2	w.		0.461	11.7		Prof. Juedt.
Bamberg	29.15	740.3	29.99	761.7	52.0	11.1	52	w.			4		4 k		w.	0.701	17.8		Prof. Dr. Hoh.
Berlin	29.57	751.1	29.71	754.7	52.2	11.2	57	w.			7		9			0.209	5.3		Dr. Leusch.
Breslau	29.30	744.1	29.82	757.5	54.5	12.5	44	w.			5		8			0.280	7.1		Royal University Obs'y.
Carlsruhe	29.71	754.7	30.18	766.5	54.7	12.6	61	sw.			5		9	sw.		0.068	0.2	light rain	Albert Senz.
Cassel	29.23	742.4	29.94	760.5	53.2	11.8	40	w.			8		6	wnw.		0.114	2.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.8	30.04	763.0	56.5	13.6	33	nw.			4		1			0.323	8.2		Physical Society.
Friedrichshafen	28.79	731.2	30.22	767.6	51.8	11.0	85	sw.			4		7	sw.		0	0		Allhelm, Chief Tel.
Hamburg	29.69	754.1	29.78	756.4	47.5	8.6	79	wsw.			8		8			0.376	9.6	heavy storm	E. Prefler.
Kiel	29.54	750.2	29.55	750.6	46.6	8.1	68	w.			5		10			0.622	15.8		Pro. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.45	748.1	29.87	758.8	54.0	12.2	41	w.			6		6	w.		0.059	1.5	stormy	H. Leppig, Asst.
Magdeburg	29.60	751.7	29.78	756.5	53.4	11.9	60	w.			8		3	w.		0.102	2.6		Weather Observatory.
Memel	29.20	741.6	29.44	742.7	52.9	11.6	62	sw.			7		9 k						Issermann.
Munich	28.30	718.9	30.17	766.4	49.6	9.8	76	nw.			2		6	sw.		0.283	7.2		Central Station.
Neufahrwasser	29.30	744.1	29.31	744.5	52.0	11.1	59	sw.			7		10			0.228	5.8		A. Lothes.
Neustadt, Palatinate	29.56	750.9	30.09	764.3	54.5	12.5	52	sw.			6		3			0.093	17.6	light rain	Dicknether.
Stuttgart	29.18	741.2	30.08	764.0	54.1	12.3	51	w.			2		5	nw.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	29.40	746.8	29.43	747.4	51.3	10.7	66	wsw.			8		8 s			0.433	11.0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.70	754.3	30.11	764.8	72.3	22.4		sw.			1.0		2 k			0.012	0.3		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.81	757.1	29.86	758.3	91.9	33.3	57	sw.	26.0	11.6			0			0	0	blue sky	
Deesa	29.38	746.3	29.86	758.3	84.7	29.3	26	se.	15.0	6.7			9	se.		0	0	d. clouds	
Bombay	29.80	757.0	29.84	758.0	76.1	24.5	97	ese.	3.0	1.3			10		s.	2.47	62.7	raining	
Poona, Yarrowda	27.99	710.9	29.86	758.5	73.0	22.8	93	se.	6.0	2.7			10			0.64	16.3	overcast	
Trichinopoly	29.62	752.4	29.90	759.4	87.9	31.1	56	w.	0.2	0.1			6			0	0	d. clouds	
Bellary	28.37	720.5	29.83	757.7	80.5	26.9	68	se.	8.0	3.6			4			0	0	d. clouds	
Belgaum	27.33	694.3	29.91	759.7	68.6	20.3	92	s.	13.0	5.8			10	w.	e.	0.30	7.6	d. clouds	
Lahore	29.03	737.2	29.76	756.0	82.0	27.8	50	calm	0	0			2			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.94	735.1	29.84	757.9	81.8	27.7	42	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	
Agra	29.31	744.5	29.87	758.7	88.7	31.5	24	nw.	.....	.....	.....	.....	5	.....	nw.	0	0	d. clouds	
Nagpur	28.85	732.7	29.90	759.4	76.7	24.8	84	se.	9.0	4.0	.....	.....	9	.....	e.	0.04	1.0	gloomy	
Jubbulpore	28.57	725.6	29.91	759.7	86.3	30.2	26	nne.	4.0	1.8	.....	.....	9	.....	ne.	0	0	gloomy	
Lucknow	29.52	749.7	29.89	759.3	81.2	27.3	40	calm	0	0	.....	.....	8	ene.	.....	0	0	d. clouds	
Allahabad	29.57	751.0	29.88	759.0	79.7	26.5	48	calm	0	0	.....	.....	10	.....	.....	0	0	overcast	
Patna	29.68	754.0	29.87	758.7	82.0	27.8	35	nw.	2.8	1.2	.....	.....	8	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.90	708.6	29.91	759.8	78.3	25.7	33	nw.	4.8	2.2	.....	.....	2	.....	.....	0	0	d. clouds	
Cuttack	29.81	757.2	29.89	759.2	85.6	29.8	74	calm	0	0	.....	.....	6	.....	.....	0	0	d. clouds	
Calcutta, Alipore	29.88	758.8	29.90	759.4	80.7	27.1	87	ne.	9.0	4.0	.....	.....	10	.....	e.	0	0	gloomy	
Dhubri	29.80	757.0	29.92	760.0	76.6	24.8	86	calm	0.8	0.4	.....	.....	0	.....	.....	0	0	blue sky	
Chittagong	29.84	757.9	29.93	760.2	81.0	27.2	74	wsw.	1.6	0.7	.....	.....	5	.....	.....	0	0	d. clouds	
Sibsagar	29.61	752.2	29.95	760.8	78.9	26.1	70	ne.	2.0	0.9	.....	.....	2	.....	.....	0	0	blue sky	
Jeypore	28.44	722.5	29.87	758.6	87.7	30.9	22	ssw.	3.0	1.3	.....	.....	8	.....	sw.	0	0	d. clouds	
Zanzibar	29.89	759.2	.....	.....	82.0	27.8	60	sw.	2.6	1.2	.....	.....	1	se.	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.64	752.8	30.04	763.1	61.5	16.4	79	calm	0	0	.....	.....	10	.....	.....	0	0	.....	Prof. Giovanni Clodig.
Milan	29.55	750.5	30.06	763.6	62.6	17.0	61	wnw.	1.8	0.8	.....	.....	9	wsw.	.....	0	0	.....	Prof. G.V.Schiapparelli
Padua	29.92	760.0	30.03	762.8	63.0	17.2	74	calm	0	0	.....	.....	10	nne.	.....	0	0	.....	Prof. Dott. Lorenzoni.
Moncalieri	29.14	740.1	30.04	763.0	62.6	17.0	64	ese.	1.3	0.6	.....	.....	9	.....	.....	0	0	.....	Prof. F. F. Densa.
Genoa	29.87	758.8	30.06	763.6	66.6	19.2	79	se.	6.9	3.1	.....	.....	10	se.	.....	0.177	4.5	.....	Prof. G. M. Garibaldi.
Mondovi	28.16	715.3	30.07	763.7	58.1	14.5	70	ne.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. D. C. Bruno.
Pesaro	29.99	761.8	30.04	763.0	70.5	21.4	62	sw.	18.6	8.3	.....	.....	6	ne.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.86	758.5	30.12	765.0	63.1	17.3	90	s.	.....	.....	2	.....	10	.....	.....	0	0	.....	Prof. Costantino Pittei
Leghorn	29.96	761.0	30.05	763.2	66.4	19.1	84	s.	8.1	3.6	.....	.....	10	.....	.....	0.031	0.8	.....	Prof. P. Monte.
Rome	30.00	762.0	30.17	766.4	66.2	19.0	77	wsw.	1.8	0.8	.....	.....	10	.....	.....	0	0	.....	Prof. P. Tacchini.
Lecce	29.89	759.3	30.15	765.7	60.3	20.7	67	ne.	4.9	2.2	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.31	744.4	30.19	766.9	66.9	19.4	63	sse.	2.5	1.1	.....	.....	3	se.	.....	0	0	.....	Prof. D. Conti.
Cagliari	30.00	762.0	30.19	766.8	73.4	23.0	60	nw.	.....	.....	4	.....	4	nw.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	30.00	762.0	30.25	768.3	68.4	20.2	68	ne.	1.8	0.8	.....	.....	3	ne.	.....	0	0	.....	Prof. G. Cacciatore.
Syracuse	30.13	765.4	30.18	766.5	72.5	22.5	66	e.	1.3	0.6	.....	.....	3	nne.	.....	0	0	.....	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.67	753.7	30.19	766.8	66.7	19.3	73	ssw.	3.8	1.7	.....	.....	10	nne.	.....	0	0	.....	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.26	768.6	30.29	769.5	44.8	7.1	98	calm	.....	.....	0	10c;cs	0	nw.	.....	0	0	cloudy	H. Hattori.
Awomori	30.22	767.6	30.25	768.3	46.3	7.9	81	ssw.	4.4	2.0	.....	0	1 ck	.....	.....	0	0	clear	K. Ogawa.
Hamamatsu	30.18	766.6	30.28	769.1	60.4	15.8	95	sw.	.....	.....	2	7 ck	3 s	sw.	se	0	0	cloudy	Sekigawa & Yamazaki.
Kagoshima	30.20	767.1	30.21	767.4	69.8	21.0	70	n.	.....	.....	2	0	0	.....	.....	0	0	clear	G. Miyanohaza.
Kanazawa	30.17	766.3	30.27	769.0	58.8	14.9	90	calm	0	0	.....	4ck;cs	3 s	.....	.....	0	0	cloudy	S. Endo.
Kioto	30.08	764.0	30.25	768.4	59.1	15.1	86	ne.	1.3	0.5	.....	9cs;ck	1 ck	w.	.....	0	0	cloudy	M. Tojima.
Kochi	30.26	768.5	30.28	769.0	62.5	16.9	75	nw.	5.5	2.4	.....	10 cs	0	w.	.....	0	0	overcast	K. Kusunose.
Miasaka	30.21	767.3	30.24	768.0	64.2	17.9	88	ene.	.....	.....	2	0	0	.....	.....	0	0	clear	K. Masusaki.
Miyako	30.15	765.8	30.26	768.6	45.0	7.2	88	wsw.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.99	761.7	30.19	766.8	63.1	17.3	81	calm	0	0	.....	1 ck	0	se.	.....	0	0	clear	S. Takehayasu.
Niigata	30.27	768.8	30.30	769.6	58.7	14.8	86	n.	0.6	0.3	.....	5 cs	5s;ks	w.	w.	0	0	cloudy	Satoo & Tomikawa.
Nohiru	30.25	768.4	30.27	768.8	52.9	11.6	81	nnw.	10.6	4.7	.....	9cs;ck	0	w.	.....	0	0	cloudy	Yoslino & Midzushina.
Numazu	30.25	768.3	30.29	769.3	55.0	13.3	88	ene.	.....	.....	2	10 c	0	.....	.....	0	0	cloudy	R. Kaneda.
Osaka	30.24	768.0	30.25	768.4	61.0	16.1	91	n.	3.6	1.6	.....	.....	fg.	.....	.....	0	0	foggy	H. Omura.
Sakai	30.21	767.3	30.22	767.5	67.9	19.9	78	ne.	.....	.....	2	.....	10s;ks	.....	wnw.	0	0	cloudy	Yamawchi&Sakamoto.
Shimonoseki	30.06	763.4	30.20	767.1	68.3	20.2	69	se.	.....	.....	2	cs	4 ck	w.	w.	0	0	fair	S. Sakato.
Tokei Obs'y, Yeddo	30.15	765.8	30.22	767.7	60.5	15.8	73	w.	7.7	3.4	.....	8cs	0	.....	.....	0	0	cloudy	The Staff.
Wakayama	30.19	766.9	30.24	768.2	61.3	16.3	85	ne.	4.2	1.9	.....	10ck;cs	0	.....	.....	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.06	763.5	76.0	24.4	61	e.	14.0	6.3	.....	1 cs	2k;ks	.....	ese.	0	0	clear	The Staff.
MEXICAN.																			
Leon	24.29	617.0	29.89	759.2	62.6	17.0	88	ese.	0.9	0.4	.....	2 c	6ck;s	.....	se.	0	0	cloudy	Prof. M. Leal.
Mazatlan	29.61	752.0	29.86	758.6	75.0	23.9	90	n.	1.6	0.8	.....	5 cs	0	sw.	.....	0	0	fair	F. Quijano, C. E.
Sub-series.																			
Altata	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.98	761.5	29.98	761.5	54.5	12.5	.....	w.	.....	.....	0	.....	.....	.....	.....	0.055	1.4	.....	
Groningen	29.31	744.4	29.76	755.8	47.1	8.4	.....	wsw.	.....	.....	5	.....	.....	.....	.....	0.339	8.6	.....	
Helder	29.80	756.8	29.80	756.8	50.7	10.4	.....	wsw.	.....	.....	0	.....	.....	.....	.....	0.039	1.0	.....	
Hellevoetsluis	29.93	760.3	29.93	760.3	52.9	11.6	58	w.	.....	.....	5	.....	.....	.....	.....	0.024	0.6	.....	
Utrecht	29.89	759.1	29.93	760.3	51.8	11.0	59	w.	.....	.....	5	.....	5	.....	.....	0.220	5.6	cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.91	759.6	.....	.....	80.2	26.8	73	nne.	0	0	.....	.....	4	.....	.....	0	0	.....	Lt.J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	28.99	736.4	29.06	738.0	45.3	7.4	80	ssw.	27	12	.....	.....	10	.....	.....	1.398	35.5	raining	
Brono	28.60	726.3	28.63	727.3	50.0	10.0	62	e.	.....	.....	4	.....	9	.....	.....	0	0	.....	
Christiania	28.85	732.9	29.00	736.5	50.4	10.2	56	sw.	13	6	.....	.....	2	.....	.....	0.488	12.4	.....	
Gjæsvær	29.11	739.5	29.14	740.1	43.0	6.1	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	
Lodingen	28.81	731.7	28.85	732.9	48.7	9.3	58	e.	.....	.....	0	.....	10	.....	.....	0.004	0.1	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	70.9	21.6	87	s.	6.3	2.8	.....	.....	5	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dr. A. M. R. dos Santo
Funchal, Madeira	30.21	767.2	30.29	769.4	73.4	23.0	65	sw.	6.3	2.8	.....	.....	0	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	30.03	762.7	30.36	771.1	70.5	21.4	65	ne.	11.2	5.0	.....	.....	0	.....	.....	0	0	.....	The Staff.
Ponta Delgada, Azores	30.35	771.0	30.43	772.8	74.5	23.6	73	calm	0	0	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loando	29.70	754.4	29.90	759.5	76.1	24.5	87	w.	1.3	0.6	.....	.....	10	.....	.....	0	0	.....	
San Salvador, Congo	28.07	713.0	29.90	759.5	78.1	25.6	73	sw.	.....	.....	3	.....	10	.....	.....	0	0	.....	
Serra da Estrella	25.65	651.8	30.31	769.8	63.0	17.2	59	wnw.	1.3	0.6	.....	.....	0	.....	.....	0.087	2.2	.....	
RUSSIAN.																			
Akmolinski	28.95	735.2	30.09	764.2	25.3	— 3.7	45	w.	4	2	.....	0	0	.....	.....	0	0	.....	Major K. Lasarew.
Archangel	29.62	752.3	29.04	752.8	39.6	4.2	74	se.	13	6	.....	0	8 ks	.....	.....	0	0	.....	Capt. Sseliwerstow
Ashurada	30.36	771.2	30.27	768.8	62.2	16.8	62	nw.	11	5	.....	0	1 k	.....	.....	0	0	light clouds	
Astrakhan	30.49	774.4	30.41	772.5	53.6	12.0	48	se.	18	8	.....	0	0	.....	.....	0	0	.....	Capt. Wisganow.
Baku	30.34	770.6	30.29	769.4	59.5	15.3	77	se.	22	10	.....	.....	10 n	.....	.....	0.776	19.7	.....	
Barnaul	29.99	761.8	30.54	775.7	16.9	— 8.4	73	w.	13	6	.....	.....	10	.....	.....	0.004	0.1	.....	Meteorological Obs'y
Bielosersk	29.33	745.0	29.80	756.8	48.6	9.2	53	sse.	10	7	.....	9 cs	0	.....	.....	0.008	0.2	.....	
Dorpat	29.18	741.2	29.42	747.3	48.6	9.2	81	sse.	9	4	.....	.....	10ks;n	.....	.....	0.270	7.0	.....	Observatory.
Ekaterinburg	29.21	741.8	30.21	767.3	33.6	0.9	100	s.	2	1	.....	.....	10 n	.....	.....	0.110	2.8	.....	Meteorological Obs'y.
Elissawetgrad	29.63	752.5	30.07	763.8	60.1	15.6	35	sse.	13	6	.....	0	1 s	.....	.....	0	0	.....	
Irkutsk	28.35	720.2	30.02	762.5	41.0	5.1	65	calm	.....	.....	0	.....	4	.....	.....	0	0	.....	
Kasalinsk	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Kasan	30.03	762.8	30.30	769.7	52.7	11.5	46	wsw.	2	1	.....	10 c	0	.....	.....	0	0	light clouds	Observatory.
Kem	29.39	746.4	29.44	747.7	43.5	6.4	61	s.	22	10	.....	.....	10 ks	.....	.....	0.031	0.8	h'vy clouds	
Kertch	30.31	769.9	30.34	770.5	62.1	16.7	54	calm	0	0	.....	0	0	.....	.....	0	0	.....	Lagorio & Sastyres.
Kieff	29.34	745.2	29.98	761.4	52.5	11.4	43	sse.	13	6	.....	c;cs	6 ks	.....	.....	0.075	1.9	.....	Observatory.
Koslov	29.74	755.4	30.25	768.4	48.6	9.2	65	s.	4	2	.....	0	0	.....	.....	0	0	.....	
Libau	29.13	740.0	29.16	740.6	51.3	10.7	69	sw.	22	10	.....	.....	10	.....	.....	0.500	12.7	.....	E. Quaas.
Lugan	29.97	761.1	30.17	766.2	61.9	16.6	45	ese.	22	10	.....	.....	0	.....	.....	0	0	.....	Meteorological Obs'y.
Moscow	29.00	751.9	30.[illegible]8	764.1	51.8	11.0	34	sse.	7.8	3.5	.....	0	0	.....	.....	0	0	.....	Meteorological Obs'y
Nikolaiev	29.98	761.5	30.05	763.3	59.5	15.3	58	calm	0	0	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	29.85	758.2	29.94	760 4	28.2	— 2.1	53	w.	4	2	.....	1 cs	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	29.97	761.1	30.11	764.7	55.2	12.9	91	calm	0	0	.....	.....	9 n	.....	.....	0.248	6.3	.....	Physical Observatory.
Petro-Alexandrovsk	30.25	768.4	30.62	777.7	48.9	9.4	33	ese.	1.1	0.5	.....	2 ck	0	.....	.....	0	0	.....	
Petrozavodsk	29.40	746.8	29.60	751·8	43.7	6.5	68	sw.	22	10	.....	.....	10	.....	.....	0.004	0.1	light clouds	Dr. Bergmann.
Pinsk	29.26	743.1	29.75	755.6	53.8	12.1	71	s.	18	8	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.04	763.1	30.08	763.9	62.8	17.1	63	e.	9	4	.....	0	5 k	.....	.....	0	0	.....	
St. Petersburg	29.54	750.2	29.56	750 8	45.0	7.2	74	s.	20	9	.....	.....	9 kn	.....	.....	inap.	inap.	.....	Central Physical Obs'y.
Samarkand	28.07	712.9	30.69	779.4	34.3	1.3	87	calm	0	0	.....	0	2 k	.....	.....	blank	blank	.....	
Semipalatinsk	29.88	759.0	30.60	777.1	21.4	— 5.9	79	nnw.	4	2	.....	.....	3	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.85	758.3	30.06	763.6	67.5	19.7	63	wsw.	11	5	.....	0	1 s	.....	.....	0	0	.....	
Staroi Bykhov	29.28	743.6	29.83	757.6	54.3	12.4	28	s	22	10	.....	.....	10	.....	.....	0	0	.....	
Tashkend Laboratory	28 86	733.0	30.62	777.7	38.8	3.8	82	calm	0	0	.....	.....	10 n	.....	.....	0.138	3.5	light clouds	Terch, A. M
Tiflis	28.84	732.5	30.26	768.7	57.0	13.9	48	sse.	9	4	.....	0	1 ks	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.96	710.2	30.62	777.8	30.4	— 0.9	87	calm	0	0	.....	.....	10 n	.....	.....	0.177	4.5	.....	
Viatka	29.57	751.0	30.21	767.3	44.8	7.1	81	sw.	2	1	.....	.....	4	.....	.....	0	0	.....	
Warsaw	29.21	742.0	29.63	752.6	54.5	12.5	70	w.	27	12	.....	0	6 kn	.....	.....	0.087	2.2	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.98	761.6	30.30	769.5	17.4	— 8.1	74	w.	9	4	.....	.....	10	.....	.....	0.004	0.1	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.17	766.3	30.27	768.9	74.5	23.6	78	se.	3.8	1.7	.....	2 c	0	.....	.....	0	0	misty	Antonio Molins.
Bilbao, Met. Obs'y	30.34	770.7	30.40	772 2	72.9	22.7	67	nw.	1.3	0.6	.....	2	7	sw.	.....	0	0	almost cov.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.44	697.0	30.41	772.5	60.8	16.0	79	sw.	8.1	3.6	.....	.....	10	.....	.....	0	0	covered	Domingo Martin.
Madrid, Royal Obs'y	28.17	715.5	30.39	771.9	64.6	18.1	80	e.	2.7	1.2	.....	.....	9	.....	.....	0	0	almost cov'd	The Staff.
Murcia, Met. Obs'y	30.15	765.7	30.26	768.5	80.2	26.8	56	e.	2.7	1.2	.....	0	0	.....	.....	0	0	clear	Olayo Diaz, Director.
Oviedo	29.58	751.4	30.34	770.7	60.8	16.0	87	s.	7.2	3.2	.....	6 n	4 k	s.	s.	0	0	.....	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.47	748.5	30.37	771.3	62.4	16.8	98	sw.	4.3	1.9	.....	.....	10	.....	.....	0.087	2.2	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.92	760.0	29.99	761.7	75.1	23.9	90	se.	2.2	1.0	.....	2cs;ck	3 k;s	nne.	e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.3	29.95	760.8	76.2	24.6	94	nnw.	2.2	1.0	.....	3 c	4 ks	.....	.....	0.764	19.4	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.19	766.9	30.29	769.3	80.6	27.0	38	e.	11.2	5.0	.....	0	0	.....	.....	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.91	759.8	30.00	762.1	78.1	25 6	87	calm	0	0	.....	.....	10 kn	.....	e.	0.024	0.6	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.10	739.2	29.14	740.2	40.3	4.6	97	se.	.....	.....	6	.....	10	.....	.....	0.449	10.4	raining	
Umea	28.89	733.9	28.95	735.2	44.6	7.0	85	s.	.....	.....	7	.....	10	.....	.....	0	0	.....	
Hernosand	28.76	730.6	28.82	731.9	43.9	6.6	83	ssw.	.....	.....	7	.....	10	.....	.....	0.378	9.6	.....	
Stockholm	28.88	733.6	29.06	738.1	45.9	7.7	76	wsw.	.....	.....	2	.....	10	.....	.....	0.339	8.6	.....	
Wisby	28.90	734.0	28.96	735.5	46.4	8.0	92	ese.	.....	.....	4	.....	10	.....	.....	0.437	11.1	raining	
Sub-series.																			
Upsala	28.93	734.9	29.02	737.1	47.7	8.7	84	s.	10.5	4.7	.....	.....	10	.....	sw.	.....	.....	.....	H.H. Hildebrandsson
Swiss.																			
Geneva	28.65	727 7	30.07	763.7	57.0	13.9	70	ssw.	.....	.....	2	.....	10	.....	.....	0.839	21.3	covered	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.11	764.8	61.5	16.4	69	nne.	8	3.5	.....	.....	10	.....	n.	0	0	.....	
Valona	.....	.....	30.24?	768.1?	70.5	21.4	.....	nw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	The Observatory.
Sub-series.																			A. Bertrand.
Beirut, Lee Obs'y, Syria	.....	.....	29.99	761.7	77.0	25.0	59	n.	.....	.....	2	.....	3 n	.....	sw.	0	0	.....	
Samokov, Bulgaria	26.85	682.0	.....	.....	52	27.8	85	calm	.....	.....	0	5 c	.....	e.	.....	0	0	.....	F. Nimr, B. A., Dir
United States.																			Fred L. Kingsbury.
Albany, New York	30.50	774.7	30.58	776.7	36	2.2	74	w.	2	0.9	.....	0	fg	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.89	759.2	51	10.6	93	se.	19	8.5	.....	4 cs	5 s	sw.	.....	0.02	0.5	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.97	634.2	29.87	758 7	34.5	1.4	87	se.	1	0.4	.....	9 ck	0	w.	.....	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.92	683.8	29.84	757.9	33	0.6	71	nw.	13	5.8	.....	.....	10 n	.....	nw.	0.02	0.5	light snow	B. O. Lenoir.
Atlanta, Georgia	29.16	740.7	30.34	770.6	50.0	10.0	93	se.	20	8.9	.....	.....	10 s	.....	se.	0	0	cloudy	Edward A. Beale.
Atlantic City, New Jersey	30.54	775.7	30.54	775.7	51.3	10.7	69	e.	10	4.5	.....	5 k	0	e.	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.23	767.8	30.42	772.7	56	13.3	74	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.54	775.7	30.59	777.0	46.6	8.1	80	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	30.55	776.0	30.57	776 5	49.7	9.8	64	se.	15	6.7	.....	8 k	0	e.	.....	0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.07	713.0	29.69	754.1	36.0	2.2	82	calm	0	0	.....	0	2 s	.....	.....	0.53	13.5	clear	A. Pritchard.
Benton, Fort, Montana	27.08	687.8	29.99	761.7	35	1.7	100	w.	16	7.2	.....	.....	10 n	.....	.....	0.13	3.3	raining	Thomas Morgan.
Bismarck, Dakota	27.66	702.6	29.54	750.3	40	4.4	92	w.	16	7.2	.....	.....	10 s	.....	.....	0.85	21.6	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.59	777.0	30.62	777.7	45.8	7.7	57	e.	10	4.5	.....	0	5 ks	.....	n.	0	0	fair	J. T. Eiker.
Boise City, Idaho	27.19	690 6	30.05	763.3	34	1.1	82	nw	2	0.9	.....	0	2 s	.....	.....	0.03	0.8	clear	B. E. Light.
Boston, Massachusetts	30.47	773.9	30.63	778.0	35.5	1.9	69	w.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.78	756.4	29.84	757.9	77.0	25.0	90	se.	6	2.7	.....	8 c	2 ks	w.	s.	0	0	cloudy	John McGlone.
Buffalo, New York	29.51	719 5	30.27	768.8	46.6	8.1	65	se.	12	5.4	.....	5ck;cs	0	sw.	.....	0	0	fair	Wm. Finn.
Buford, Fort, Dakota	27.45	697.2	29.55	750.6	33.2	0.7	100	w.	16	7.2	.....	.....	10 n	.....	w.	0.15	3.8	light rain	A. Schneider.
Cairo, Illinois	29.07	753.6	30.07	763.8	61.1	16.2	99	n.	9	4.0	.....	.....	10 n	.....	.....	1.83	46.5	heavy rain	W. H. Ray.
Canby, Fort, Washington Ter	29.76	755.9	29.96	761.0	47.5	8.6	96	nw.	8	3.6	.....	.....	10 s	.....	se.	0.11	2.8	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.49	774.4	30.51	774.9	57.0	13.9	69	ne.	18	8.0	.....	0	7 ks	.....	n.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.52	775.2	30.55	776.0	46.0	7.8	76	ne.	6	2.7	.....	0	3 s	.....	se.	0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.34	745.2	30.03	762.7	48.3	9.1	74	nw.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	71.5	21.9	84	ne.	13	5.8	.....	0	c	.....	.....	inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.28	769.1	30.34	770.6	59.0	15.0	93	ne.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.60	751 8	30.46	773.7	50.0	10.0	77	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.48	748.8	30.31	769 9	54.5	12.5	77	se.	6	2.7	.....	0	9 s	.....	s.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.87	606.3	29.89	759.2	31.4	— 0.3	43	nw.	20	8.9	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.14	740.1	29.85	758.2	61.0	16.1	87	se.	12	5.4	.....	.....	10 s	.....	s.	0.46	11.7	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.51	774.9	30.53	775.4	55	12.8	62	e	7	3.1	.....	.....	8 ks	.....	se.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.53	750.0	30.19	766.8	60.4	15.8	72	se.	9	4.0	.....	5 cs	0	sw.	.....	0	0	fair	L. Dunne.
Cleveland, Ohio	29.43	747.5	30.17	766 3	47.0	8.3	66	se.	17	7.6	.....	7 c	0	w.	.....	0	0	fair	J. B. Newlin.
Columbus, Ohio	29.35	745.5	30.21	767.3	50.2	10.1	77	se.	8	3.6	.....	6 cs	3 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.02	711 7	29.97	761.2	56.0	13.3	80	w.	4	1.8	.....	0	1 k	.....	sw.	0.12	3.0	clear	C. E. King.
Custer, Fort, M. T	26.60	675.6	29.84	757.9	32	0.0	62	nw.	19	8.5	.....	3 c	0	nw.	.....	0	0	clear	T. Gibson.
Davenport, Iowa	29.15	740.4	29.81	757.2	57.2	14.0	86	nw.	7	3.1	.....	.....	10 ks	.....	sw.	0.54	13.7	cloudy	R. R. Martin.
Davis, Fort, Texas	25.12	638.0	29.97	761.2	41.1	5.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.26	717.8	30.05	763.3	41.5	5.3	76	s.	8	3.6	.....	4 k	0	sw.	.....	0.06	1.5	fair	D. Moore.
Deadwood, Dakota	25.09	637.3	29.77	756.1	37.5	3.1	79	s.	8	3.6	.....	0	0	.....	.....	0.03	0.8	clear	F. Des Willson.
Delaware Breakwater, Del.	30.52	775.2	30.54	775.7	54	12.2	80	e.	18	8.0	.....	0	7 k	.....	n.	0	0	fair	F. W. Mixer.
Denver, Colorado	24.60	624.8	29.86	758.4	37.3	2.9	77	s.	5	2.2	.....	2 ck	0	w.	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	28.93	734.8	29.85	758.2	45	7.2	83	w.	4	1.8	.....	0	5 s;sk	.....	w.	0.87	22.1	fair	F. W. Conrad.
Detroit, Michigan	29.38	746.2	30.09	764 3	56.0	13.3	74	se.	19	8.5	.....	9 k	0	se.	.....	0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.26	692 4	29.89	759.2	43	6.1	83	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.07	738.4	29.79	756.7	52.3	11.3	69	w.	8	3.6	.....	.....	10 s	.....	nw.	0.20	5.1	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.69	728.7	29.45	748.0	50	10.0	86	sw.	20	8.9	.....	.....	10 s	.....	sw.	0.49	12.4	cloudy	N. B. Conger.
Eastport, Maine	30.54	775.7	30.61	777.5	37.5	3.1	66	calm	0	0	.....	1 c	hz.	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.08	687.8	29.87	758.7	59	10.0	70	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. C. Rickli.
El Paso, Texas	26.25	757.0	30.00	762.0	38.1	3.4	72	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.23	767.8	46	7.8	76	s.	25	11.2	.....	4 c	0	nw.	.....	0	0	fair	C. A. Shaw.
Escanaba, Michigan	28.95	735.3	29.62	752 3	55.0	12.8	96	s.	24	10.7	.....	.....	10 s	.....	s.	0.86	21.8	cloudy	George Heathcote.
Galveston, Texas	29.88	758.9	29.92	760.0	78.0	25.6	76	s.	8	3.6	.....	3 c	2 ks	.....	s.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.17	740.9	29.84	757.9	59.0	15.0	90	s.	20	8.9	.....	.....	10 s	.....	se.	0.61	15.5	cloudy	Wm. H. Fallon.

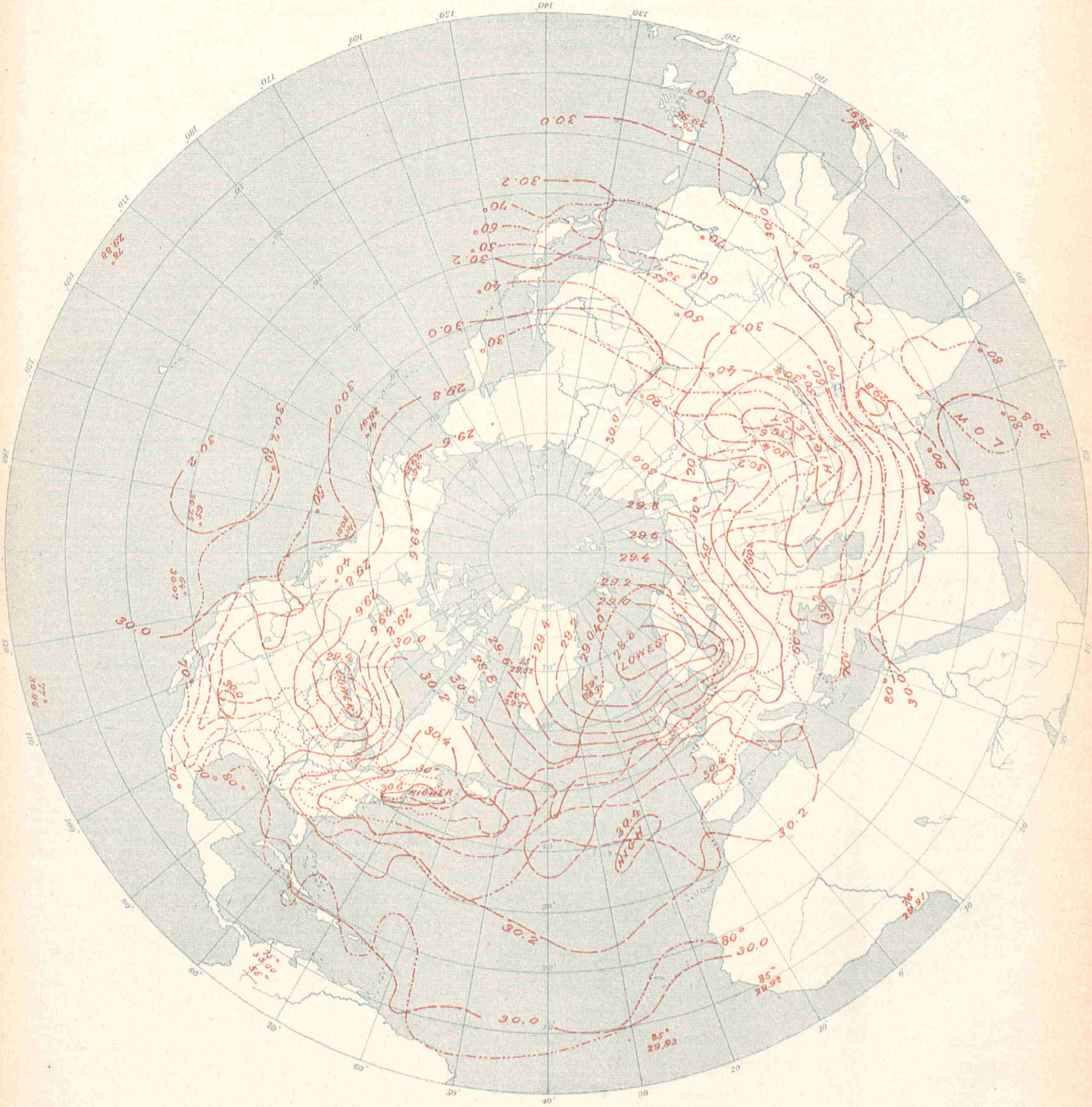
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.17	639.3	29.87	758.7	43.2	6.2	61	ne.	2	0.9		4 ck	0	w.		0	0	fair	Chas. A. Read.
Hatteras, North Carolina	30.40	772.1	30.41	772.4	61.5	16.4	87	ne.	14	6.3		5 c	3 k	e.	ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.63	651.0	29.93	760.2	36	2.2	82	n.	7	3.1			10 s			0	0	cloudy	F. H. Jones.
Huron, Dakota	28.26	717 8	29.69	754.1	37.5	3.1	90	sw.	7	3.1		0	0			0.60	15.2	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.08	764.0	60.0	15.6	84	s.	5	2.2			10 n		s.	0.36	9.1	heavy rain	C. F. R. Wappenhans.
Indianola, Texas	29.87	758.7	29.90	759.4	77.2	25.1	89	s.	14	6.3			10 n		sw.	0.17	4.3	light rain	I. A. Reed.
Jacksonville Florida	30.16	766.1	30.20	767.1	74.0	23.3	76	e.	9	4.0		0	0			0.43	10.7	clear	J. W. Smith.
Keokuk, Iowa	29.19	741.4	29.86	758.4	60.0	15.6	93	calm	0	0			10 s		w.	1.50	38.1	threatening.	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	77	25.0	90	ne.	15	6.7		0	5k;ks		ne.	0.23	5.8	fair	A. W. Browne.
Kittyhawk, North Carolina	30.44	773.2	30.46	773.7	59.3	15.2	70	ne.	15	6.7		0	6 k		ne.	c	0	fair	Wesley Blake.
Knoxville, Tennessee	29.27	743.4	30.31	769.9	49.3	9.6	91	ne.	2	0.9		5 c	0			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.94	735.1	29.73	755.1	48	8.9	77	sw.	8	3.6		0	4 s		w.	0.32	8.1	fair	S. C. Emery.
Leavenworth, Kansas	28.98	736.1	29.88	758.9	45.5	7.5	89	calm	0	0		0	1s;fg			0.84	21.3	clear	T. S. Outram.
Lewiston, Idaho	29.15	740.4	30.00	762.0	46.0	7.8	83	se.	2	0.9			10 s			0.01	0.3	cloudy	C. E. Butler.
Little Rock, Arkansas	29.62	752.3	29.94	760.5	66.0	18.9	90	se.	5	2.2			10 s			0.67	17.0	cloudy	W. U. Simons.
Los Angeles, California	29.59	751.6	29.99	761.7	54	12.2	93	nw.	4	1.8			10 s		n.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.53	750.0	30.10	764.5	61.3	16.3	72	se.	14	6.3			10 s		s.	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.80	756.9	30.49	774.4	50.0	10.0	72	ne.	1	0.4		9 k	0	s.		0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.12	739.6	29.79	756.7	55.0	12.8	86	s.	4	1.8			10 s		se.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.39	771.9	30.40	772.1	60.0	15.6	81	ne.	20	8.9		0	0			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.29	642.4	29.83	757.7	30.5	— 0.8	88	nw.	32	14.3			10 n		nw.	0.20	5.1	light snow.	F. Burke.
Marquette, Michigan	28.80	731.5	29.54	750 3	58.4	14.7	88	s.	20	8.9			10 s		s.	0.02	0.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.06	763.5	64	17.8	100	sw.	16	7.2			10 n			0.85	21.6	thund'r st'm	D. T. Flannery.
Milwaukee, Wisconsin	29.02	737.1	29.78	756.4	61.0	16.1	84	sw.	22	9.8			10 s		sw.	0.12	3.0	cloudy	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	71	21.7	79	e.	13	5.8		2 c	6 s	sw.	se.	inap.	inap.	cloudy	H. U. Jones.
Montgomery, Alabama	29.99	761.7	30.22	767.6	65	18.3	63	se.	11	4.9			10 s		se.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	28.42	721.9	29.44	747.8	44	6.7	100	w.	25	11.2		0	5 s		w.	1.31	33.3	fair	H. Bessant.
Mt. Washington, N. H	24.11	612.4	30.45	773.4	30.0	— 1.1	76	nw.	13	5 8		0	hz.			0	0	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.12	765.0	60.0	15.6	72	se.	16	7.2		0	8 ks		se.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.48	774.2	30.60	777.2	31	— 0.6	72	n.	4	1.8		4 k	0	sw.		0	0	fair	J. H. Sherman.
New London, Connecticut.	30.60	777.2	30.65	778.5	35.5	1.9	79	n.	5	2.2		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.94	760.5	29.99	761.7	76.0	24.4	90	s.	12	5.4			10 n		s.	1.75	44.4	light rain	M. Herman.
New York, New York	30.42	772.7	30.60	777.2	45.0	7.2	53	e.	10	4.5		0	4 s			0	0	fair	H. J. Penrod.
Norfolk, Virginia	30.45	773.4	30.48	774.2	55.0	12.8	69	ne.	5	2.2		7 k	fg.	w.		0	0	fair	Wm. Davis.
North Platte, Nebraska	26.89	683.0	29.85	758.2	45.6	7.6	68	w	12	5.4		0	8 s			0.45	11.4	cloudy	E. F. Brady.
Olympia, Washington T'y																			J. Dascomb.
Omaha, Nebraska	28.66	728.0	29.86	758.4	45.4	7.4	82	s.	4	1.8			10 s		sw.	1.27	32.3	cloudy	A. Pollak
Oswego, New York	30.06	763.5	30.39	771.9	42.0	5.6	58	se.	13	5.8		3 cs	0	nw.		0	0	clear	J. G. Linsley
Palestine, Texas	29.40	746.7	29.96	761.0	68.0	20.0	92	se.	5	2.2			10 ks		s.	0.52	13.2	cloudy	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	70.2	21.2	84	e.	20	8.9			10 s		e.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.49	774.4	30.59	776.0	41.5	5.3	78	ne.	5	2.2		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.58	446.5	29.86	758.4	11	—11.7	100	w.			7		10 ks		w.	0	0	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.50	749.3	30.32	770.1	44.5	6.9	80	ne.	2	0.9		0	fg.			0	0	clear.	G. C Schaeffer.
Port Huron, Michigan	29.36	745.7	30.04	763.0	52.0	11.1	80	s.	14	6.3			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.55	776.0	30.60	777.2	39.0	3.9	65	nw.	1	0.4		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.94	760.5	30.01	762.2	49.0	9.4	93	s.	8	3 6			10 s		s.	0.02	0.5	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.72	627.9	29.88	758.9	34.5	1.4	92	w.	2	0.9		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.60	777.2	30.63	778.0	44.2	6.8	59	e.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Red Bluff, California	29.65	753.1	30.01	762.2	47	8.3	68	ne.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.63	752.6	29.87	758 7	76.1	24.5	85	se.	8	3.6		0	3 s		se.	0	0	clear	Fred. Belford.
Rochester, N. Y	29.66	753.4	30.34	770.6	42	5.6	65	s.	16	7.2		3 c	sk.	w.		0	0	clear	
Roseburg, Oregon	29.53	750.0	30.09	764.3	45.8	7.7	92	s.	2	0.9		0	9 k		nw.	0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	29.90	759.4	29.98	761.5	46.8	8.2	93	sw.	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.36	745.7	29.98	761.5	61.2	16.2	100	sw.	18	8.0			10 n		s.	2.10	53.3	heavy rain.	J. H. Weber.
St. Michael, Fort, Alaska	29.56	750.8	29.59	751.6	34.5	1.4	89	s.	14	6.3		3 cs	0	s.		0.25	6.3	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.79	731.3	29.66	753.4	44.0	6.7	83	calm	0	0		0	1 s			0.19	4.8	clear	P. F Lyons.
St. Vincent, Minnesota	28 40	721.3	29.30	744.2	41	5.0	100	nw.	3	1.3			10 n		nw	0.89	22.6	light rain	C. B. Dilley
Salt Lake City, Utah	25.61	650.5	30.01	762.2	34	1.1	65	e.	2	0.9		2 k	0	nw.		0.10	2.5	clear	J. Craig.
San Diego, California	29.89	759.2	29.96	761.0	53.5	11.9	81	ne.	2	0.9		10 k	0	se.		0	0	cloudy	F. R. Day.
Sanford, Florida	30.08	764 0	30.13	765.3	71.0	21.7	94	se.	7	3.1			10 n		se.	1.19	30.2	light rain	J. B. Marbury.
Sandusky, Ohio	29.44	747.8	30.13	765.3	53	11.7	72	sw.	20	8.9		3 ck	4 s	sw.		0	0	fair	B. F. Heugh.
Sandy Hook, New Jersey	30.55	776.0	30.58	776.7	50.0	10.0	52	s.	20	8.9		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	51.8	11.0	88	sw.	3	1.3		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.22	767.6	30.31	769.9	60	15.6	78	ne.	10	4.5			10 s		ne.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26 24	666.5	29.94	760.5	36	2.2	92	w.	20	8.9			10 n			0.16	4.1	light snow.	S. W. Morrison.
Shreveport, Louisiana	29.62	752.3	29.86	758.4	58.5	20.3	89	se.	5	2.2			9 ks		s.	0.13	3.3	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W M. Mattingly
Sitka, Alaska	29.94	760.5	30.01	762.2	41.2	5.1	82	e.	2	0.9			10 ks		e.	0	0	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.39	746 5	29.87	758.7	64.0	17.8	90	calm	0	0			10 s		s.	2.25	57.1	cloudy	J. B. Campbell
Smithville North Carolina	30.34	770.6	30.38	771.6	53.5	11.9	88	n.	0	4 0			10 s		e.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	30.01	762.2	43	6.1	83	s.	4	1.8		4 c	4 s	sw.		0.04	1.0	cloudy	John F. Hemenway.
Springfield, Illinois	29.18	741.2	29.87	758.7	61.8	16.6	88	s.	22	9.8			10 s		sw.	0.99	25.1	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.97	685.0	30.00	762.0	46.0	7.8	71	sw.	4	1.8		0	0			0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.86	758.4			45.0	7.2	95	e.	6	2.7			10 s			0.02	0.5	cloudy	R. Connor.
Thomas, Camp, Arizona	27.26	692.4	29.97	761.2	38	3.3	37	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.39	746.5	30.09	764.3	54.8	12.7	74	s.	18	8.0		0	8 ks		s.	0	0	cloudy	A. Buell.
Unalaska, Alaska	29.89	759.2	29.91	759.7	41	5.0	65	nw.	36	16.1		3 k	0	nw.		0 59	15.0	clear	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	69.0	20.6	90	se.	9	4.0			10 n		se.	0.04	1.0	light rain	James Kenealy.
Washakie, Fort, Wyoming.																			T. M. Ambler.
Washington, D. C.	30.45	773.4	30.57	776.5	43.0	6.1	86	calm	0	0		0	fg.			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	25.88	657.3	29 81	757.2	34.5	1.4	100	sw.	4	1.8			fg.			0.01	0.3	dense fog	F. H. Brandenburg.
Wilmington, N Carolina	30.36	771.1	30.42	772.7	52.0	11.1	86	ne.	5	2.2		2 c; k	0			0	0	clear	Samuel A. Haney.
Yankton, Dakota	28.41	721.6	29.74	755.4	40.4	4.7	84	w.	8	3.6		0	0			0.42	10.7	clear	E. H. Thompson.
Yuma, Arizona	29.72	754.9	29.87	758.7	52.7	11.5	74	calm	0	0		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1	0	9 n		nw.	0.30	7.6	drizzling	W. H. Jackson.
Bogota, U. S. C.	22.01	559.1			54.5	12.5	77	ne	2	1			9 s		se.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.99	761.7	75.9	24.4	85	n.	1	0.4		10 cs	0			0	0	cloudy	Robert Johnstone.
Paramaribo, S. A.	29.94	760.5	29.94	760.5	80	26.7	82	e			2	5 ck	3 s	e.		0	0	fair	Dr. C. J. Herman.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	75	23.9	94	s.			1		10 ks		s	0.35	8.9	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74.8	23.8	89	nw			1		10 ks		ne.	0.30	9.1	cloudy	Earl Flint.
York Factory, B. A.	30.21	767.3	30.47	768.8	31.5	— 0.3	95	w.	6	2.7		1 c	0	w.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 39° 03′, E. 25° 55′	30.11	764.8	67	19.4	64	nnw.			2		1	nnw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.14	765.5	72	22.2	74	nnw.			5		8	nnw.						d. clouds.
H. M. S. Iris, Alexandria, Egypt	30.08	764.0	75	23.9	77	nnw.			3		3							blue sky.
H. M. S. Inflexible, N. 39° 38′, E. 19° 57′	30.14	765.5	73	22.8	95	calm			0		1	nnw.						blue sky.
H. M. S. Opal, mouth of Niger river, W. Africa	29.91	759.7	78	25.6	86	sw.			2		6	calm						d. clouds.
H. M. S. Superb, N. 37° 56′, E. 23° 39′ *	30.15	765.8	70	21.1	100	sse.			2		3	nnw.						d. clouds.
H.P. M. S. Duoro, N. 1° 38′, E. 7° 27′	29.91	759.7	81.5	27.5	80	ese.			1		8		sw.			1	se.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.58	776.7	32	0.0	78	n.	6	2.7			0			0	0			clear.
U. S. S. Alliance, Newburg, N. Y	30.62	777.7	41	5.0	91	w.			1		5			0	0			fair
U. S. S. Jamestown, N. 34° 16′, W. 69° 44′	30.32	770.1	69	20.6	70	ne.			6		8		ne.			sm'h	ne.	squally.
U. S. S. Kearsarge, Malaga, Spain	30.33	770.4	68	20.0	84	sse.			1		0							clear.
U. S. S. Lancaster, Malaga, Spain	30.30	769.6	72	22.2	80	calm			0		0					sm'h		clear.
U. S. S New Hampshire, Newport, R. I			44	6.7	84	nne.			1		0					sm'h		clear.
U. S. S. Portsmouth, Newburgh, N. Y	30.60	777.2	36	2.2	100	nw.			1									hazy.
U. S. S. Powhatan, N 42° 21′ W. 70° 45′	30.63	778.0	46	7.8	92	n.			1		2					sm'h		fair.
U.S. S. Quinnebaug, Lerhorn, Italy	30.17	766.3	66	18.9	89	ssw.			2		8		ssw.					misty.
U. S. S. Saratoga, Newburgh, N Y	30.62	777.7	39	3.9	82	nw.			2		10		nw.	0	c	sm'h	ne.	overcast.
U. S. S. Swatara, N. 25° 54′, W. 73° 11′	30.11	764.8	76	24.4	73	e.			4		8		e	0	0	long	e.	fair.
U. S. S. Vandalia, Newburgh, N.Y†	30.59	777.0	42	5.6	83	sw.			1		0							clear.
S. S. Lord Clive, N. 43° 34′. W. 56° 42′						n.			var.		9		ne.	0	0	sli't	e.	cloudy.
S. S. Lord Gough, Queenstown, Ireland	29.96	761.0	50	10.0		w.			6		10		w.	0	0	short	w.	cloudy.
S. S. Ohio, Liverpool, Eng †	29.84	757.9	50	10.0	93	w.			7		4		w.	8 h'r	8 h'r			clear.
S. S. Circassian, N. 54° 28′, W. 43° 35′	29.91	759.7	38	3.3	90	w			4–5		6		w.			4	w.	showery.
S. S. Nova Scotian, N. 48° 04′, W. 50° 43′	30.30	769.6	43	6.1		wnw.			4		8		w.			long	nnw.	cloudy.
S. S. Prussian, N. 49° 14′ W. 45° 31′	30.28	769.1	42	5.6		nnw.			4		7		nnw.	0	0	mod.	n	fair.
S. S. Alvo, N. 35° 30′, W. 74° 09′*	30.38	771.6	64	17.8		ene.			5–6		7		ne.	0	0	r'gh	ene.	cloudy.
S. S. Andes, N 32° 40′, W. 74° 15′*†	30.30	769.6	74	23.3		ene.			3		8		ene.			h'vy	ene.	squally
S. S. Ailsa, Cartagena, U.S.C			80	26.7	96	ssw.			2		2?		e.	0	0			cloudy ?
S. S. Avilla, N. 39° 10′, W. 73° 12′*†	30.62?	777.7?	54	12.2		e.			3		4		e.	0	0		e.	
S. S. Assyria, N 50° 11′, W. 37° 13′	30.00	762.0	47	8.3	85	wnw.			5		6		wnw.	0	0	r'gh	wnw.	squally.
S. S. Devonia, N. 47° 43′. W. 44° 00′*†	30.22	767.6	44	6.7		nw.			4		5?		wnw.			mod.	nw.	clear?
S. S. Dorian, N. 41° 25′, W. 32° 55′	30.14	765.5	69	20.6		sw.			6		4		sw.	4 h'r	4 h'r	long	sw.	fine.
S. S. Llandaff City, New York, N. Y†	30.64	778.2	45	7.2		e.			5		5		se.	0	0			fair.
S. S. Bothnia, N. 40° 24′, W. 67° 27′	30.54	775.7	54	12.2	87	ne.			5		2		ne.	0	0	mod.	ne.	clear
S. S. Gallia, N. 51° 21′, W. 10° 36′	30.13	765.3	62	16.7	83	w.			6		8		w.	sh'rs	sh'rs	mod.	w.	squally.
S. S. Arizona, N. 43° 51′, W. 58° 15′	30.50	774.7	45	7.2		nne.			3		10		ne.	0	0	sm'h		overcast.
S. S. Wisconsin. N 51° 25′, W. 9° 20′*	30.06	763.5	53	11.7		w.			6		2		w.	2 h'r	2 h'r	high	w.	squally.
S. S. Wyoming, N. 49° 42′, W. 32° 41′	30.08	764.0	51	10.6		w.			6		5		w.	2 h'r	2 h'r	h'vy	nw.	hail squalls
S. S. Bohemia, N. 49° 29′, W. 9° 00′						nw.			5–6		8		nw.	4 h'r	4 h'r	r'gh	nw.	cloudy.
S. S. Gellert, N. 53° 46′, E. 5° 10′			50	10.0	86	wsw.			6		6?		w.	4 h'r	4 h'r	high		covered?
S. S. Silesia, N. 45° 12′, W. 49° 15′	30.40	772.1	48.5	9.2		nne.			3		8		ne.	0	0	sm'h	n.	cloudy.
S. S. Westphalia, N. 47° 29′, W. 38° 03′			55	12.8	?	wnw			5		3		wnw.	1 h'r	1 h'r	r'gh	wnw.	squally.
S. S. Nessmore, Formby Light, Eng	29.77	756.1	52	11.1	93	w.			6		4		nw.	0	0	h'vy	cross	squally.
S. S. Bulgarian, N. 48° 05′, W. 42° 52′						nnw.			6		8		nnw.	2 h'r	2 h'r	mod.	nw.	
S. S. Hevelius, Liverpool, Eng†	29.88	758.9	52	11.1		w.			9				nw.	10 h'r	10 h'r			cloudy.
S. S. Rosse, N. 20° 05′, W. 23° 30′ *	30.03	762.7	80	26.7		nne.			5				nne.	0	0	light	nne.	clear.
S. S. Rio Grande, N. 37° 56′, W. 74° 36′			56	13.3		ne.			3		5		e.	0	0	mod	e.	fair.
S. S. Lampassas, New York, N. Y			62	16.7		ene.			6		5?		se.	0	0			cloudy ?
S. S. Chalinette, N. 24° 23′, W. 82° 20′†	29.94	760.5	79	26.1		ese.			3		10		ese.	3 h'r	3 h'r	sm'h	ese.	cloudy.
S. S. New York, N. 38° 12′, W. 74° 30′*†	30.48	774.2	60	15.6		ene.			5		10		se.	0	0	mod.	e.	cloudy.
S. S. Alleghany, Baltimore, Md †	30.63	778.0	45	7.2		e			2		0			0	0			clear.
S. S. Archimede, N. 39° 47′ W. 71° 01′†	30.51	774.9	54	12.2		ene.			3		4		ene.	0	0	mod.	ene.	fair.
S. S. City of Washington, Havana, Cuba			85	29.4		se.			2		5		ne.	1 h'r	1 h'r	sm'h		fine.
S. S. Cienfuegos, N. 19° 45′, W. 77° 45′			84	28.9		se.			3		2		s.	0	0	gentle	se.	clear.
S. S. Denmark, London, Eng†	29.99	761.7	58	14.4		w.			7		7		w.	0	0			fair.
S. S. Egypt, N. 43° 30′, W. 49° 04′			49	9.4		nnw.			4		5		n.	0	0	mod.	nnw.	fair.
S. S. Grecian, Renfrew, Scotland	29.61	752.1	57	13.9	94	sw.			4–7		9		sw.	3 h'r	3 h'r			squally.
S. S. Erin, N. 49° 31′, W. 15° 50′			54	12.2		wnw.			6		7		nw.	6 h'r	6 h'r	rg'h	nw.	fair.
S. S. Elbe, N. 44° 20′ W. 55° 44′	30.46	773.6	49.1	9.5	86	nw.			3–4		10		n.	0	0	sm'h	n	cloudy.
S. S. Habsburg, N. 45° 18′, W. 50° 55′	30.43	772.9				nnw.			4		9		nne.	1 h'r	1 h'r	sm'h	n.	cloudy.
S. S. Orinoco, New York, N. Y			48	8.9		ese.			3		0			0	0			hazy.
S. S. Neckar, N. 41° 53, W. 63° 47′	30.56	776.2	51.0	10.6	59	nw.			5		6		ne.	0	0	sm'h	nne.	fair.
S. S. Oder, N. 50° 10′, W. 12° 05′	30.19	766.8	55.4	13.0		w.			5		4		w.	0	0	high	w.	fair.
S. S. Ohio, N. 35° 32′, W. 76° 44′	30.46	773.7				n.			2–5		9		n.	2 h'r	2 h'r	mod	n.	cloudy.
S. S. Salier, N. 46° 44′, W. 44° 18′*	30.25	768.3	45.5	7.5		nw.			3		10		ene.	0	0	light	ne.	covered.
S. S. Strasburg, N. 45° 25′, W. 48° 29′	30.39	771.9	45.0	7.2	72	ne.			3		8		ne.	3 h'r	3 h'r	3	nne.	cloudy.
S. S. Werra, N. 41° 26′, W 65° 58′			46.4	8.0		ene.			5		8		ene.	0	0	mod.	ene.	cloudy.
S. S. Weser, N. 25° 06′ W. 85° 36′	30.05	762.3	82.4	28.0		ese.			4		2		ese.	0	0	mod.	ese.	fair
S. S. City of Augusta, New York, N. Y†	30.58	776.7				ese.			2		4		se.					fair.
S. S. Muriel, N. 33° 35′, W. 70° 00′			70	21.1		ne.			4		0			0	0	r'gh	ne.	clear
S. S. Belgenland, N. 44° 05′, W. 51° 34′†	30.44	773.2	47	8.3	70	nne.			5		8		ne.	½ h'r	½ h'r	long	ene.	cloudy.
S. S. Rhynland, Antwerp, Belgium	29.99	761.7	56	13.3		sw.			6		7		sww.	0	0			fair.
S. S. Pennland, Antwerp, Belgium			55	12.8	87	sw.			4		3		sw.	0	0			clear.
S. S. Waesland, New York Bay, N. Y†	30.61	777.5	52	11.1		calm			0		0			0	0			
S. S. Leerdam, N. 44° 19′, W. 56° 13′*	30.46	774.3	52.5	11.4	83	nw.			4		7		nw.			2	nw.	drizzling.
S. S. Zaandam, N. 47° 39′ W. 33° —	30.14	765.5	59.4	15.2	93	nnw.			4		9		nw.	2 h'r	2 h'r	high	nw.	cloudy.
S. S. Caracas, Curacoa, W. I*†	29.91	759.7	82	27.8	91	ene.			3		8		ene.	½ h'r	½ h'r	sm'h		cloudy.
S. S. W. A. Scholten, N. 40° 62′, W. 69° 20′	30.58	776.7	48.2	9.0	66	ene.			3		3		ene.	0	0			clear.
S. S. Valencia, N. 32° 47′, W. 72° 15′ *†	30.31	769.9	74	23.3	68	nne.			6		4		ne.	1 h'r	1 h'r	hv'y	ne.	fine.
S. S. State of Nebraska, N. 52° 03′ W. 33° 20′ *†	29.94	760 5	44	6.7		wnw.			5–6		3		nw.	6 h'r	6 h'r	high	nw.	clear.
S. S. State of Alabama, N. 55° 36′, W. 10° 28′ *†	29.46	748.3	45	7.2		wnw.			8		10		wnw	1 h'r	1 h'r	h'vy	wnw.	hail squalls
S. S. Thingvalla, N. 44° 49′, W. 55° 53′ †	30.53?	775.4?				nne.			3		3?		nne.	0	0	mod.	nne.	covered?
S. S. Romano, N. 39° 11′, W. 59° 15′			58	14.4		ene.			6		6		ne	0	0	h'vy	ne.	light haze.
S. S. Salerno, N. 48° 34′, W. 42° 49′*†	30.20	767.1	47	8.3		w.			6		6		wnw.	0.5	13.	h'vy	wnw.	raining.
S. S. Ontario, N. 54° 53′, W. 39° 46′	29.77	756.1	36	2.2		wnw.			6		2		wnw.	5 h'r	5 h'r	mod.	var.	squally.
S. S. Oregon, Liverpool, Eng	29.76	755.9				w.			7		6		w					squally.
S. S. Quebec, N. 51° 57′, W, 54° 45′	30.17	766.3	38	3.3		wsw.			4		7		wnw.	0	0		n.	fair.
S. S. Lake Huron, N. 52° 59′, W. 49° 39′	30.03	762.7	30	—1.1		w.			5		5		wnw.	5 h'r	5 h'r	mod	nw.	squally.
S. S. Lake Manitoba, N. 56° —′, W. 19° 10′	29.49	749.0	46	7.8		wnw.			8		7		wnw.	4 h'r	4 h'r	hv'y	wnw.	squally.
S. S. Britannic, N. 45° 20′ W. 52° 46′			41	5.0		n.			4		9		nw.	0	0	long	nw.	d. clouds.
S. S. Celtic, Liverpool, Eng			58	14.4		nnw.			6		8		wnw.	16 h'r	16 h'r	sm'h		squally.
S. S. Germanic, N 43° 48′, W. 44° 35′	30.22	767.6	55	12.8		nne.			6		10		ne.	4 h'r	4 h'r	short	ne.	gloomy
S. S. Republic, N. 51° 23′, W. 12° 57′ *†	30.04	763.0	54	12.2		nw.			6		5		nw.	sh'rs	sh'rs	h'vy	wnw.	squally.
S. S. Assyrian Monarch, N. 40° 50′, W. 65° 30′	30.60	777.2				ene.			6		4		ne.	0	0	r'gh	ene.	fair.
Bk. Arda, N. 21° 58′. W. 43° 55′						se.			1		3		se.	0	0	mod.	se.	clear.
Bk. Ariadne, N. 58° 03′, E. 5° 16′			49	9.4	78	w.			6		7		w.	0	0	cross	w.	hailing.
Schr. Arthur Burton, Charleston, S. C.†	30.35	770.9				ne.			0		8		ne.	0	0	chop	ne.	threatening.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.60	777.2	58	14.4		ne.			2									clear.
Bg. Alcira, N. 29° 27′, W. 69° 29′	30.28	769.1	76	24 4		ese.			6		6		ese.	0	0	mod.	ne.	misty.
Schr. Adda Doane, Demerara, British Guiana*†	29.92	760.0				s.			1		3		sw.	1 h'r	1 h'r			clear.
Bg. Belle of the Bay, N. 28° 14′, W. 91° 04′†	29.92	760.0				se.			3		7		s.	24 h'r	24 h'r	h'vy	e.	threatening
S. S. Benledi, N. 43° 15′, W. 9° 30′*	30.33	770.4	62	16.7	94	ene.			3		9		nnw.	6 h'r	6 h'r	long	var.	foggy.
Bk. Ceylon, N. 5° 16′. W. 27° 35′†	29.93	760.2	85	29.4	87	s.			4		1		sse.	0	0	long	sse.	clear.
Schr. Clotilde, N. 23° 22′, W. 82° 21′ †	30.00	762 0	81	27.2		ene.			2		8		ne.	5 h'r	5 h'r	mod.	e.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. C. R. Flint, N. 9° 04′, W. 58° 56′†	30.00	762.0	84	28.9		e.			3		5		ene.	0	0	long	ene.	fair.
S. S. D. J. Foley, N. 18° 58′, W. 75° 25*†	30.00	762.0	83	28.3	83	ene.			1		2		ne.	0	0	sm'h		clear.
S. Dynomene, N. 5° 55′, W. 22° 10′	29.94	760.5	80	26.7	96	s.			2		7			h'vy	h'vy	light	var.	misty.
S. E. J. Spicer, N. 42° 16′, W. 52° 05′	30.42	772.7	48	8.9	92	nne.			5		5		nne.	0	0	mod.	nnw.	fair.
Bk. E. D. Bigelow, Galveston, Texas†	29.85	758.2	83	28.3		sse.			3		2		s.	0	0	mod.	se.	fine.
S. Festina Lente, N. 54° 19′, W. 18° 59′	29.74	755.4	49	9.4		wsw.			6		4		w.	1 h'r	1 h'r	hv'y	w.	squally.
U. S. Fish Com. S. S Fish Hawk, Newport, R. I.†	30.59	777.0	46	7.8	92	nne.			2		2		calm	0	0			clear.
Bg. George, N. 39° 40′, W. 73° 55′*†	30.52	775.2	59	15.0		ese.			1		0			0	0	mod.	e.	clear.
Bk. Galeon, N. 22° 58′, W. 62° 14′ †	30.08	764.0	82	27.8		e.			2		5		ne.	light	light	long	nw.	squally.
Bk. Hattie G. McFarland, N. 27° 21′, W. 66° 20′†	30.17	766.3	75	23.9		ne.			5		10		ne.	12 h'r	12 h'r	r'gh	ne.	rainy.
S. Hedwig, N 27° 00′ W. 69° 35′	30.11	764.9	77.9	25.5	94	nne.			6		8		nne.	0	0	4	nne.	overcast.
Bk. Heinrich & Tonio, N. 46° 15′, W. 15° 50′†	30.36	771.1	60	15.6		sw.			1		0			0	0	high	wnw.	clear.
Schr. Isabel Alberto, N. 28° 03′, W. 80° 10′†	30.16	766.1				e.			5		10		e.	h'vy	h'vy	h'vy	var.	cloudy.
Schr. Jennie N. Huddell, Smithville, N. C.†	30.36	771.1	60	15.6	76	ne.			3		8		e	0	0			cloudy.
Bk. John H. Pearson, N. 25° 33′, W. 20° 45′						ne.			4				ene.	0	0	long	n.	cloudy.
Schr. John Bracewell, N. 41° 25′, W. 70° 48′†	30.58	776.7				ne.			4		1		ne.	0	0			clear.
Bg. Josefa, Little Glace Bay, N. S.†	30.57	776.5				ssw.			2		4		sw.	0	0			fair.
Bkt. John Balzley, Sandy Hook, N. J *†	30.62	777.7				s.			3		3		s.	0	0			clear.
Bk. Lady Hincks, N. 42° 50′, W. 68° 17′														0	0			
Bg. Lilian, N. 34° 46′, W. 75° 00′ †	30.38	771.6	72	22.2		ene.			5		3		ne.	0	0	r'gh	e.	fair.
Bg. L. & W. Armstrong, N. 39° 30′, W. 73° 32′*†	30.52	775.2				e.			3		1		e.	0	0	sm'h	ese.	clear.
S. S. Madrid, N. 36° 14′, E. 19° 25′†	30.16	766.1	71	21.7	85	nnw.			4		2		nnw.	0	0	sm'h		fair.
Bk. Matilda C. Smith, N. 49° 31′, W. 5° 20′*†	30.30	769.6				wnw.			5		4		wnw.	0	0	r'gh	wnw.	clearing.
Bk. Matthias, N. 40° 53′, W. 42° 59′ *†	30.06	763.5	71.0	21.7		ene.			3		10			4 h'r	4 h'r	2	var.	
Schr. Norena, N. 28° 16′, W. 62° 30′*†	30.15	765.8				n.			2		5		n.	0	0	mod.	n.	d. clouds.
Bk. National Eagle, N. 37° 40′, E. 10° 30′						nw.			4		2		nw.	0	0	sm'h		fair.
Schr. Rollin Sanford, Milton, Florida†	30.18	766.6				se.			6		5		w.	0	0			fair.
Bg. Rising Sun, Barbadoes, W. I †	29.99	761.7	82	27.8		e.			4		10		e.	h'vy	h'vy			squally
Bk. Rosalie, N. 6° 58′, W. 26° 56′*†	29.92	760.0				s.			2		0			0	0	mod.	une.	clear.
Bk. Saga, N. 54° 10′, E. 4° 46′			54	12.2		w.			8-9		7		w.	6 h'r	6 h'r	r'gh	v	fair.
S. Salisbury, N. 36° 01′, W. 4° 04′	30.27	768.8	66.2	19.0	91	ene.			1-2		2 k		ene.	0	0	mod.		clear.
Bgt. Sunlight, N. 34° 40′, W. 65° 00′ †	30.23	767.8				ne.			6		5		ne.	1 h'r	1 h'r	r'gh	ene.	fair.
Bk. Samuel B. Hale, N. 26° 48′, W. 33° 10′*†	30.30	769.6				ese.			5				ese.	0	0	short	e.	clear
Bk. Sunbeam, Rotterdam, Holland †	29.94	760.5	54	12.2	88	wsw.			8		8		wsw.	light	light			cloudy
S. St. Francis, N. 34° 52′, W. 41° 00′ *†	30.20	767.1	76	24.4		sse.			3		3		s.	0	0	mod.	s.	fair.
Bk. Southern Belle, N. 33° 50′, W. 12° 40′†	30.20	767.1	55	18.3		ene.			5		5			0	0	rg'h	ne.	
Schr. Walter L. Plummer, N. 23° 55′, W. 44° 45′*†	30.10	764.5				s.			1		1		se			sm'h	ese.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.81	757.2	61.5	16.4	94	nw.			2		2	sw.						blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.08	764.0	67	19.4	84	ese.			2		7	e.						d. clouds.
H. M. S. Orontes, S 0° 18′, W. 3° 30′	29.93	760.2	76	24.4	95	s.			3		7					4	sse.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.89	759 2	60	15.6	94	nw.			1		4							d. clouds.
H. P. M. S. Rainha de Portugal, Bunana, Guinea	29.92	759.9	77	25.0	83	sw.			3		9		sw.	0	0	1		overcast.
U. S. S. Brooklyn, S. 34° 51′, W. 16° 54′*	29.87	758.7	58	14.4	94	sse.	16	7.2			10		sse.	0.05	1.3	mod.	sse.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	29.87	758.7	64	17.8	89	nw.			1		2		nw.			sm'h		fair.
S. S. Tenlers, S. 25° 29′ W. 46° 34′	29.98	761.5	73	22.8	85	ne.			6	6	6 ks			0	0		ene.	d. clouds.
S. S. Sirius, S. 9° 34′, W. 34° 19′	30.00	762.0				nne.			3		9		nw.	1 h'r	1 h'r	mod.	e.	cloudy.
Bk Alpheus Marshall, S. 12° 10′, W. 23° 48′*†	29.94	760.5	76	24.4	95	ese.			3		4		se.	0	0	mod	s.	fair.
Bk. Adelaide, S. 23° 05′, W. 42° 58′*†	30.13	765.3	71	21.7		ene.			3		0			0	0	light	ese.	clear.
Bk. Bore, S. 34° 55′, E. 18° 30′*†	30.40	773.7	66	18.9		ese.			5		0			0	0	sm'h	se.	clear.
S. David Crockett, S. 24° 48′, W. 25° 16′*	30.09	764.3	67.5	19.7	60	ssw.			2		6		ssw.	0	0	sm'h	s.	d. clouds.
Bk. E. L. Pettingill, S. 56° 25′, W. 66° 26′*†	29.35	745.5	48	8.9		w.			5		5		w.	snow	snow	sm'h	wsw.	
Bg. John Wesley, Natal, Brazil *†	29.84	757.9	83	28.3		ene.			4		1		ene.	0	0			clear.
Bkt. Louise Adelaide, Rio de la Plata River†	30.00	762 0				wnw.			2		3			2 h'r	2 h'r			fair.
S S. Mendoza, S. 6° 55′, W. 33° 37′ †	30.05	763.3				nne.			1		2		nne.	0	0	sm'h	s.	
Bk. Mohican, S. 40 50′, E. 18° 51′	29.92	760.0	57	13.9		wnw.			4		10			0	0	mod.	wsw.	cloudy.
Bk. Pilgrim, S. 1° 56′, W. 29° 50′ *†	30.00	762.0				ese.			2		1		ese.	1 h'r	1 h'r	mod.	ese.	clear.
Bgt. Willie, Montevideo, Uruguay *†	29.83	757.7	68	20.0		calm			0		0			6 h'r	6 h'r			clear.
Bk. Childwall, S. 25° 39′, W. 37° 38′	30.09	764.3	70	21.1		ese.			4		6		ese.	0	0	small		cloudy.
Bk. Achille F, S. 10° —′, W. 33° 45′ †	30.00	762.0	75	23.9		ne.			4		6		ne.	4 h'r	4 h'r	long	s.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.14?	765.5?	68	20.0	95	calm			0		10	ne.						misty.
H. M. S. Champion, Singapore, Malay Peninsula	29.91	759.7	81	27.2	87	sse.			1		4							d. clouds.
H. M. S. Flying Fish, N. 32° 45′, E. 129° 52′	30.18	766.6	69	20.6	80	calm			0		5	s.						misty.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.14	765.5	75	23.9		n.			1		0	ne.						d clouds.
H. P. M. S. Tamega, Canton, China	30.04	763 0	80.6	27.0	81	se.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.30?	769.6?	60.5	15.8	76	calm			0		10			0	0			foggy.
U. S. S. Essex, Nagasaki, Japan	30.18	766.6	70	21.1	90	n.			1		2							clear.
U. S. S. Hartford, off La Union, San Salvador*	29.86	758.4	78	25.6	91	calm			0		5					sm'h		fair.
U. S. S. Juniata, Canton, China	30.07	763.8	80	26.7	91	se.			1		2			0	0			fair.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.16	766.1	65	18.3	78	e.			1		10		calm					cloudy.
U. S. S. Pensacola, Yokohama, Japan*	30.13?	765.3?	65	18.3	78	sw.			3		2			0	0			clear.
U. S. S. Ranger, Mare Island, Cal	30.03	762.7	55	12.8	80	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.24	768.1	66	18.9	79	nw.			1		0			0	0			hazy.
S. S. Oceanic, N. 34° 31′, E. 139° 42′	30.28	769.1	70	21.1	90	var.			3-4		3		w.	0	0	sm'h		fair.
S. S. City of Chester, near Cape Mendocino, Cal.†	30.04	763.0	53	11.7	86	nw.			4								nw.	clear.
S. S. Ancon, Point Loma, Cal.†	29.96	761 0	60	15.6	81	se.			2		0			0	0	light	s.	clear
S. S. Dakota, N. 48° 17′, W. 124° 47′ †	30.08	764.0	52	11.1	94	nw.			1		1		nnw.	0	0	mod.	sw.	clear.
S. S. Victoria, Victoria, B. C.†	29.94	760.5	50	10.0	86	sse.			3		8		sse.					cloudy.
S. S. City of Pekin, N. 33° 40′, E 136° 39′†	30.28	769.1	73	22.8	81	ene.			4		2		ne.	0	0	sm'h		hazy.
S. S. City of Sydney, N. 4° 21′, W. 164° 47′*†	29.88	758.9	78	25.6	86	nnw.			2	8 ck						mod.	ne.	cloudy.
S. S. City of Tokio, N. 39° 36′, W. 142° 24′			63	17.2	72	wsw.			5		9		wsw.	3 h'r	3 h'r	small	wsw.	cloudy.
S. S. Colima, La Libertad, San Salvador†	29.94	760.5	77	25.0	82	nw.			2		3		calm	0	0	mod.	sw.	clear.
S. S. Grenada, N. 34° 04′, W. 119° 12′ †	29.96	761.0	58	14.4	88	wsw.			3		0			0	0	mod.	wnw.	clear
S. S. San Blas, San Jose, Guatemala†	29.89	759 2	76	24.4		wnw.			5		10		wsw.	3 h'r	3 h'r	h'vy	ssw.	cloudy.
S. S. San Juan, N. 28° 25′, W. 116° 25′†	29.97	761.2	62	16.7		nnw.			3		10 ks			0	0	light	nw.	overcast.
S. S. Alameda, N. 31° 07′, W. 136° 24′†	30.25	768.3	65	18.3		se.			2		9		s.	0	0	light	sse.	cloudy.
S. Parker M. Whitmore, N. 28° 22′, W. 124° 40′*†	30.07	763.8	64	17.8		n.			3		5		n.	0	0	mod.	n.	fair.
S. Sovereign of the Seas, N. 0° 29′, W. 115° 46′*†	30.06	763.5	77	25.0	86	ese.			3		4		ese.	0	0	mod.	sse	clear
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.88	758.9	82.3	27.9	83	se.			4		7					sm'h		d clouds.
H. M. S. Magpie, S. 6° 05′, E. 105° 42′	29.91	759.7	82.3	27.9	75	s.			3		2					3	ssw.	misty.
H. M. S. Nelson, Sydney, N. S. W	30.12	765 0	57	13.9	88	calm			0		8							d. clouds.
U. S. S. Iroquois, Callao, Peru	30.12	765.0	63	17.2	94	sse.			1		10					sm'h		cloudy
U. S. S. Lackawanna, Valparaiso, Chili*	30.12	765 0	55	12.8	87	calm			0		8		nw.					cloudy.
U. S. S. Onward, Callao, Peru *†	30.14	765.5	62	16.7	94	sse.			1		10		sse.			mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili*	30.13	765.3	54	12.2	80	calm			0		5					sm'h		fair.
S. S. Australia, Sydney, N. S W	29.91	759 7	61	16.1	94	se.			2		8		s.	0	0			cloudy.
S. S. City of New York, S. 34° 13′, E. 165° 09′ †	30.07	763.8	64	17.8	89	nw.			6		5?		nw.	2 h'r	2 h'r	mod.	wnw.	cloudy.?
S. E. B. Sutton, S. 8° 40′, W. 128° 30′*†	29.95	760.7	78	25.6	86	e.			6		2		ese.	0	0	h'vy	s.	clear.
S. Armenia, S. 40° 50′, W. 117° 40′*	29.87	758.7	55	12.8	93	nw.			5		10		nw.	2 h'r	2 h'r	cross	var.	overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
Bk. Chas. Stewart, Lobos de Afuera Islands, **Peru**†	30.11	764.8	66	18.9	.....	se.	.....	.....	5	.....	10	.....	se.	.....	.....	long	se.	overcast.
S. Storm King, S. 15° 32′, W. 124° 36′*†	30.05	763.2	.....	.....	.....	ese.	.....	.....	4	.....	3	.....	ese.	0	0	sm'h	se.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.89	759.2	79	26.1	82	sse.	.....	.....	1	.....	1	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.89	759.2	81	27.2	96	sse.	.....	.....	2	.....	1	sse.	.....	.....	.....	3	sse.	blue sky.
S. Frank N. Thayer, S. 34° 45′, E. 25° 05′*†	30.18	766.6	67	19.4	60	ene.	.....	.....	1	2 c	.....	wsw.	.....	0	0	mod.	s.	blue sky.
Bk. Great Surgeon, S. 32° 21′, E. 96° 20′	30.14	765.5	57	13.9	.....	sw.	.....	.....	6	.....	2	.....	sw.	0	0	long	sw.	clear.
S. S. Radnorshire, Suez Canal, Egypt*†	30.00	762.0	.....	.....	.....	nnw.	.....	.....	2	.....	2	.....	nw.	0	0	r'gh	nw.	fine.
S. S. Galatia, N. 11° 00′, E. 61° 59′†	29.72	754.9	80	26.7	91	sw.	.....	.....	6	.....	6	.....	sw.	3 h'r	3 h'r	r'gh	sw.	stormy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 19, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.28	769.0	70.2	21.2	75	e.			1		0			0	0	clear	Roziere.
Algiers			30.31	769.9	70.9	21.6	74	ne.			3		0			0	0	clear	Thève.
La Calle			30.28	769.2	75.2	24.0	69	nnw.			2		2			0	0	fair	Fonfrède.
Tunis			30.31	769.8	74.8	23.8	59	nw.			4		2			0	0	fair	Delord.
Saida			30.32	770.0															Pérès.
Tebessa			30.28	769.0	71.6	22.0	74	e.			4		2			0	0	fair	St. Martin.
Geriville					71.6	22.0	4	se.			2		0			0	0	clear	Forfert.
Laghouat			30.31	769.9	79.5	26.4	36	ne.			1		0			0	0	clear	Abraham.
Biskra			30.28	769.2	75.9	24.4	20	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.94	760.5	60.5	15.8	83	wsw.	3	1.3			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.87	758.7	29.96	761.0	61.6	16.4	80	ese.	2	0.9			2			0.01	0.3	lightning	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.71	754.7	30.26	768.7	57.2	14.0	53	se.			2		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.32	744.6	30.21	767.2	52.5	11.4	50	sw.	17.4	7.8			4			0	0		Dr. Wierzbiski
Eperies	29.24	742.8	30.13	765.4	50.0	10.0	75	se.			2	cs	4 s		s.	0.039	1.0		Julius Mikolik.
Gratz	28.97	735.7	30.22	767.5	57.0	13.9	65	s.			2		7			0	0		Andreas Rospini.
Hermannstadt	28.72	729.5	30.17	766.2	53.4	11.9	52	w.			4		0			0.138	3.5	clear	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.86	733.0	30.23	767.9	51.3	10.7	59	w.			2		10			0.252	6.4	gloomy	The Staff.
Lemberg	29.07	738.4	30.07	763.7	50.4	10.2	61	nw.			6		3			inap.	inap.		Dr. T. Stanecki.
Pola	30.08	764.0	30.19	766.8	63.5	17.5	77	e.			4		3			0	0		I. R. Hydrographic Office.
Szathmar	29.66	753.4	30.13	765.2	55.2	12.9	43	nw.			4		1			0.047	1.2		Joseph Midliuszky, S. J
Szegedin	29.95	760.7	30.23	767.8	56.8	13.8	57	sw.			2		6			0	0		Karl Stancel.
Trieste	30.11	764.8	30.21	767.3	63.0	17.2	43	ne.			3		8			0	0		Royal Academy.
Vienna	29.49	749.0	30.21	767.3	56.1	13.4	46	w.			3		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.32	744.7	29.42	747.3	49.0	9.4	48	wsw.	26	11.6			3			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.42	747.3	29.66	753.4	46.0	7.8	85	sw.	11	4.9			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.69	754.1	47.7	8.7	94	ssw.	7	3.1			10					raining	John Hartnup.
Bolton, Sharples	29.14	740.1	29.68	753.9	45.5	7.5	96	ssw.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.59?	751.67	29.98?	761.5?	47.5	8.6	79	sw.			2		10			0.18	4.6	raining	McLandsborough & Preston.
Cardington	29.65	753.1	29.76	755.9	50.0	10.0	89	sw.			4.0		10					overcast	John McLaren.
Chatham, School M. E.	29.68	753.9	29.85	758.2	50.1	10.1	94	s.			2		10					raining	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.46	748.3	29.69	754.1	57.0	13.9	94	wsw.			6		10					overcast	The Staff.
Fort Napier, Natal	27.55	699.8	29.77	756.1	80.5	26.9	17	ne.			1		3					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	86	30.0	72	w.			3		0?					d. clouds ?	J. W. Smith.
Galway, Queen's College	29.70	754.4	29.74	755.5	47	8.3	92	sw.			4		8			0.20	5.1	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.14	765.5	30.20	767.1	74.0	23.3	91	e.			3		0					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.33	745.0	29.54	750.3	48.3	9.1	74	sw.			3		7 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.82	757.4	49.2	9.6	96	ssw.			3		10					raining	The Staff.
Guernsey	29.54	750.3	29.83	757.7	56.5	13.6	98	wsw.			6		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.76	755.9	29.80	756.9	50.6	10.3	93	ssw.	11	4.9			10					raining	The Staff.
Leicester, Museum	29.46	748.3	29.72	754.9	50.0	10.0	89	sw.			2		10					raining	J. C. Smith.
Malta, Mediterranean	30.08	764.0	30.16	766.1	74.0	23.3	76	nw.			2		6			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.00	762.0	30.05	763.3	75.0	23.9	96	e.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.20	741.7	29.72	754.9	47.6?	8.7?		s.			3		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.53	750.0	29.76	755.9	50.4	10.2	91	ssw.			4		10					raining	The Staff.
Plymouth	29.59	751.6	29.66	753.4	57.0	13.9	97	wsw.			5		10					showery	John Merrifield.
Sandwick Manse, Orkneys	29.14	740.1	29.24	742.7	45	7.2	78						2					hailing	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.00	762.0	30.07	763.8	63.8	17.7	67	n.			2		9					d. clouds	W. H. Lyne.
Sheffield	29.41	747.0	29.69	754.1	48.9	9.4	93	s.			1		10			0.07	1.8	raining	W. F. Cooper.
Silloth Rectory	29.58	751.3	29.61	752.1	49.4	9.7	80	w.			4		10			0.120	3.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.68	753.9	45.5	7.5	90	sw.	14	6.3			10					raining	Rev. S. J. Perry.
Strathfield Turgiss					50.7	10.4	93	s.			1.0		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.77	756.1	29.84	757.9	59	15.0	82	w.			7		10					gloomy	W. Newcombe.
Valencia, Observatory	29.81	757.2	29.83	757.7	49.7	9.8	86	wnw.	19	8.5			10					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.85	758.2	30.24	768.1	70.9	21.6	74	nw.	9.4	4.2		0	6 n		nw.	0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.26	768.6	30.31	769.9	39.0	3.9		sw.	15	6.7		7 cs	0	w.		0	0	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.42	772.7	42	5.6	80	sw.	12	5.4		5 c	5 s	w.	sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.28	769.1	30.35	770.9	42	5.6	80	sw.	8	3.6		2 k	8 ks	sw.	sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.90	759.4	30.10	764.5	50.8	10.4	90	nw.			1		10 s			0.104	2.6	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.20	767.1	30.25	768.3	38.0	3.3		w.			1		10 s			0	0		H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.09	764.3	30.11	764.8	43	6.1	89	wsw.	18	8.0			10 s		w.	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.50	749.3	30.40	772.1	21	— 6.1	84	n.	17	7.6			8 ks		n.	0.49	12.4	cloudy	James Stewart.
Fredericton, N. B	30.31	769.9	30.38	771.6	45.1	7.3	68	sw.	7	3.1			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B	30.35	770.9	30.41	772.1	48	8.9	71	sw.	18	8.0			10 s		sw.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.98	736.1	30.07	763.8	56.0	13.3	100	sw.	2	0.9			10 n			0.29	7.4	overcast	Jas. Grant.
Halifax, N. S*	30.37	771.4	30.50	774.7	40	4.4	96	s.	2	0.9		8 k	0	sw.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.64	752.8	30.01	762.2	58.5	14.7	91	sw.			2	10 ck	0	sw.		0.13	3.3	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.80	756.9	30.14	765.5	52	11.1	93	s.	15	6.7			10 n		sw.	0.14	3.6	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.45	773.4	30.49	774.4	43.0	6.1	87	sw.			2	6 k	0	sw.		0	0		C. H. Rigby.
London, Ontario	29.74	755.4	30.06	763.5	56.7	13.7	96	s.			1		10 n			0.050	1.3	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.99	710.9	30.37	771.4	31	— 0.6	96	calm	0	0			5 s			0.02	0.5	clear	John Ewart.
Minnedosa, N. W. T	28.40	721.3	30.46	773.7	14	—10.0	96	nw.	1	0.4		0	0			0.17	4.3	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.95	760.7	30.16	766.1	45	7.2	89	s.	12	5.4			10 s			0.03	0.8	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	29.90	759.4	30.12	765.0	48.5	9.2	98	sw.					10 s			0.580	14.7	raining	A. McGill, M. A.
Parry Sound, Ontario*	29.31	744.5	29.99	761.7	55	12.8	100	sw.	10	4.5		2 k	5 ks	sw.	sw.	0.96	24.4	fair	Rev. R. Mosley.
Peterboro, Ontario	29.34	745.2	30.08	764.0	53.7	12.1	93	w.			1	0	3 k			0.08	2.0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.33	745.0	30.06	763.5	30	— 1.1	77	nw.	12	5.4		5 k	5 ks		n.	0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.41	747.0	30.10	764.5	54	12.2	100	sw.	5	2.2			10 n			0.07	1.8	light rain	H. Morgan
Port Stanley, Ontario	29.44	747.8	30.08	764.0	57	13.9	93	w.	6	2.7			10 n		sw.	0.37	9.4	cloudy	M. Payne.
Qu Appelle, N. W. T	28.08	713.2	30.53	775.4	16	— 8.9	96	calm	0	0		8 ck	0	nw.		0.20	5.1	fair	Leslie Gordon.
Quebec, Quebec*	29.83	757.7	30.20	767.1	40	4.4	100	calm	0	0			10 n		sw.	0.06	1.5	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.51	750.3	30.00	762.0	51	10.6	93	se.	5	2.2			10 s		s.	0.18	4.6	light rain	W. H. McIntyre.
St. Andrews, N. B	30.31	769.9	30.36	771.1	46	7.8	92	sw.	16	7.2			10 n			0	0	cloudy	
St. John, N. B	30.24	768.1	30.38	771.6	46.5	8.1	74	sw.	16	7.2			10 ks			0	0	overcast	G. Hutchinson.
Saint John's, N. F	30.29	769.4	30.55	776.0	36	2.2	80	sw.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.47	771.0	48.2	9.0		calm			2								The Commandant.
Sangeen, Ontario*	29.30	744.2	30.00	762.0	56	13.3	93	sw.	12	5.4		5 k	9	s.		0.51	13.0	fair	
Stratford, Ontario	28.80	731.5	30.06	763.5	55.2	12.9	99	w.	7.0	3.1			10 s			0.255	6.5	raining	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CANADIAN.—Continued.																			
S. W. Point, Anticosti	30.13	765.3	30.16	766.1	40	4.4	86	se.			5	5 k	2 s	sw.	sw.	0	0	cloudy	
Sydney, C. B.	30.45	773.4	30.51	774.9	38	3.3	89	sw.	2	0.9			10 k		sw.	0	0	cloudy	Miss Grace Pope.
Toronto, Ontario*	29.72	754.9	30.10	764.5	54	12.2	93	sw.	7	3.1			10 ks		sw.	0.03	0.8	cloudy	A. C. Hall, C. E.
Woodstock, Ontario	29.05	737.9	30.10	764.5	57.3	14.1	96	s.	12	5.4			10 s			0.46	11.7	overcast	Magnetic Observatory.
Yarmouth, N. S.*	30.40	772.1	30.47	773.9	47	8.3	83	s.	8	3.6			10 k		sw.	0	0	cloudy	Prof. N Wolverton, M. A.
CAPE COLONY.																			Lt. F. E. Wilmot, R. N.
Cape St. Francis Lt.House	30.07	763.8	30.10	764.5	64.5	18.1	75	sw.	12.2	5.5		0	7 k			0	0	fine	
Cape Town	29.96	761.0			72.5	22.5	54	nw.				4 c	0			0	0		I. Garfelt.
Springbok Fontein	27.87	707.9			83	28.3	36									0	0		J. T. Entrace
CHILIAN.																			
Coquimbo	30.03	762.7	30.11	764.7	57.9	14.4	77	ne.			1	2 k	0					fair	Samuel Redolez.
Iquique	30.04	762.9	30.06	763.6	61.3	16.3	75	sw.			3							cloudy	Rafael Moreno.
Niebla	29.74	755.5	29.85	758.2	46.8	8.2	86	e.			1	1	1 n	s.	w.	0.173	4.4		Federico Kühling.
Punta Caldera	30.00	761.9	30.08	764.1	57.2	14.0	84	ne.			2	9 c	0	se.				fair	Manuel Tobar.
Punta Corona	29.99	761.8	30.18	766.6				s.			3	0	3 k		n.	0.031	0.8		Francisco Alvarado.
Valparaiso	29.85	758.2	29.94	760.4	55.0	12.8	80	se.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.24	641.2																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.08	763.9	30.10	764.6	65.3	18.5	97	e.	1.8	0.8			10 n			0.189	4.8	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.54	750.4	29.59	751.6	44.1	6.7	87	wsw.	13	6			10					raining	Oversergent Fischer.
Fanoe	29.58	751.4	29.60	751.9	49.5	9.7	83	w.			6		3						Overloerer Lauridsen.
Godthaab, Greenland	29.53	750.1	29.58	751.2	34.2	1.2	73	s.			6		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.15	740.4	29.20	741.6	18.7	— 7.4		se.			4		6						
Stykkisholm, Iceland	29.42	747.2	29.47	748.5	39.2	4.0	78	ne.			9		8						A. O. Thorlacius.
Thorshavn	29.14	740.2	29.17	740.8	46.8	8.2	87	nw.	9	4			7						Overloerer Bergh.
Vestervig	29.14	740.1	29.47	748.4	48.0	8.9	73	w.			6		7					hailing	Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.85	758.1			77.4	25.2		n.	3.1	1.4			6 k			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.70	754.4	30.35	771.0	60.4	15.8	85	s.			1		n	s.	s.	0	0		M. Labroue, Director.
Alençon, Normal School	29.53	750.0	30.08	764.0	53.6	12	90	s.			1				n.	0	0		M. Nicot, Director.
Avignon, Normal School	30.17	766.4	30.25	768.4	62.6	17	44	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.64	752.8	30.20	767.0	55.0	12.8	60	sw.			2		8 kn		wsw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.79	756.6	30.05	763.3	53.1	11.7	80	ssw.			2		10		sw.			raining	M. Frère Eugène Marie.
Besançon, Normal School	29.29	744.0	30.20	767.1	56.8	13.8	39	sw.			2		10		ne.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	30.00	762.0	30.26	768.7	59.5	15.3	89	s.			1		10			0.039	1.0	covered	M. Rayet, Director.
Bourges, Normal School	29.58	751.4	30.13	765.2	64.4	18	80	sw.			2	ck		sw.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.78	756.4	30.02	762.6	58.6	14.8	95	wsw.			6		10		wsw.	0.008	0.2	raining	M. de Kermarée, Dir.
Caen, Normal School	29.85	758.1	29.92	760.0	53.8	12.1	86	s.			2					0.08	2.		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.75	755.7	30.07	763.8	52.5	11.4	73	sw.			2		5		w.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.57	751.0	30.09	764.2	50.4	10.2	76	ssw.			1		10	ne.				raining	M. Noel, Director.
Clermont-Ferrand Obs'y	28.87	733.3	30.22	767.5	61.7	16.5	40	se.			1		0			0.016	0.4		M. Allnard, Director.
Cluny, Normal School	29.40	746.8	30.26	768.7	60.1	15.6	42	ssw.			1					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744.3	30.17	766.3	53.8	12.1	77	w.			6		5 kn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.66	702.6	30.17	766.3	60.4	15.8	61	se.			1		0			0	0		M. Jarach, Director.
Grésque, du Rhone	29.09	738.9	30.20	767.1	64.9	18.3	35	nw.			2		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.50	749.3	30.28	769.0	57.9	14.4	72	s.			1	ck		se.		0	0		M. Ablard, Directoor.
Guéret, Normal School	28.63	727.3	30.21	767.4	57.2	14	78	wsw.			2		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.69	754.1	29.97	761.1	59.7	15.4	81	w.			2		10		w.	0	0	covered	M. Ollitrault, Director.
Lescar, Normal School	29.69	754.2	30.25	768.4	68.9	20.5	69	w.			1		0			0.008	0.2	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.01	762.3	30.11	764.9	59.0	15.0	82	sw.			4		10	calm	sw.	0.165	4.2	covered	Lt. T. Carre, Director
Lyon, St. Genis-Laval	29.21	741.9	30.27	768.9	56.3	13.5	53	ese.			1		0			0.016	0.4	misty	M. André, Director.
Mans, Normal School	29.80	756.8	30.10	764.6	57.0	13.9	75	sw.			6		5		sw.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.95	760.6	30.22	767.5	62.2	16.8	60	wnw.			3		1			0	0		M. Stephan, Director.
Montlouis	25.16	639.0	30.00	762.0	60.8	16.0	16	sw.	5.6	2.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.10	764.4	30.21	767.2	65.1	18.4	80	n.			4		2	ese.	e.	0	0	slightly cl'dy	[illegible], Director.
Nancy	29.41	747.0	30.20	767.0	54.3	12.4	76	ssw.			2		n			0	0		M. Hasse, Director.
Nantes, Observatory	29.99	761.7	30.15	765.8	60.4	15.8	73	ssw.			1		10 n		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.17	766.3	30.28	769.1	68.4	20.2	69	se.	5.6	2.5			1		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.54	547.0			43.5	6.4		nw.			1		0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.20	741.7	30.27	768.8	58.6	14.8	56	n.			4		1	n.	n.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.33	643.4			42.6	5.9	30	w.			4		2			0.106	2.7		M. Allnard.
Rochefort, Naval Obs'y	30.21	767.3	30.24	768.1	61.5	16.4	75	ssw.			2		10		wsw.	0.12	3.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.05	763.2	30.26	768.7	59.0	15	85	s.			6		5		s.	0	0	cloudy	M. Brovier, Director.
Rodez, Normal School	28.06	712.7	30.19	766.7	53.8	12.1	77	se.					10	e.	w.			raining	M. Seger, Director.
Rouen, Normal School	30.00	762.1	30.05	763.3	51.8	11	90	s.			1		10	n.		0.016	0.4	covered	[illegible] Moullilot, Dir.
St Lô	29.81	757.1	29.95	760.7	54.0	12.2	76	sw.			2		10		sw.	0.008	0.2	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.95	760.7	30.11	764.9	52.7	11.5	79	ssw.			2		10		ssw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.60	751.8	30.33	770.3	62.2	16.8	75	sw.			1		8	w.		0.012	0.3	very cloudy	M. Baillaud, Director.
Tours	29.99	761.7	30.17	766.2	59.0	15.0	61	sw.			2		2		sw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.59	751.5	30.08	764.0	51.4	10.8	82	w.			4					0.028	0.7		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.18	766.6	30.33	770.4	66.2	19.0	83	s.	2.0	0.9			1			0.008	0.2		M. Cartier, Director.
GERMAN.																			
Ansbach	28.71	729.2	30.18	766.5	49.3	9.6	70	w.			4		10	w.		0.051	1.3		Prof. Juedt.
Bamberg	29.27	743.4	30.11	764.9	50.9	10.5	64	w.			2		8 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.82	757.3	29.96	760.9	53.6	12.0	58	w.			3		7			0.067	1.7		Dr. Lensch.
Breslau	29.52	749.8	30.05	763.3	52.0	11.1	45	w.			5		5			0	0		Royal University Obs'y.
Carlsruhe	29.72	754.8	30.18	766.6	53.8	12.1	64	sw.			5		10	sw.		1.012	25.7	raining	Albert Senz.
Cassel	29.27	743.5	29.98	761.6	51.4	10.8	74	sw.			4		8	sw.		0.039	1.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	755.0	30.09	764.3	54.5	12.5	63	sw.			2		8			0	0		Physical Society.
Friedrichshafen	28.78	731.1	30.21	767.3	54.1	12.3	70	ssw.			2		7	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.72	754.8	29.81	757.1	50.9	10.5	82	wsw.			8		6			0.083	2.1		E. Freiter.
Kiel	29.71	754.6	29.72	755.0	46.4	8.0	86	sw.			4		7			1.039	26.4		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.61	752.0	30.03	762.7	53.2	11.8	56	sw.			4		10	sw.		0.020	0.5		H. Leppig, Asst.
Magdeburg	29.75	755.6	29.94	760.5	53.6	12.0	65	wsw.			5		6	wsw.		0.012	0.3		Weather Observatory.
Memel	29.59	751.6	29.64	752.8	49.8	9.9	74	wnw.			7		10 k					rain & hail	Issermann.
Munich	28.34	719.9	30.22	767.5	52.0	11.1	49	nw.			4		8	w.		0	0		Central Station.
Neufahrwasser	29.70	754.3	29.71	754.7	48.0	8.9	66	w.			5		5			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.58	751.2	30.10	764.6	54.1	12.3	62	sw.			2		10	sw.		1.299	33.0	raining	Dicknether.
Stuttgart	29.26	743.2	30.16	766.0	53.6	12.0	65	sw.			1		10			0.110	2.8		Prof. Dr. Schoder.
Wustrow	29.69	754.1	29.72	754.8	44.6	7.0	99	wsw.			8		10			0.543	13.8		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.72	754.9	30.10	764.4	72.0	22.2		ne.			1.5		7 k			0.004	0.1		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.78	756.3	29.83	757.6	86.6	30.3	56	sw.	15.0	6.7			0			0	0	blue sky	
Deesa	29.33	744.9	29.80	756.8	87.6	30.9	30	ne.	10.0	4.5			0			0	0	blue sky	
Bombay	29.80	757.0	29.84	758.0	75.3	24.1	96	ssw.	20.0	8.9			10		s.	4.79	121.7	overcast	
Poona, Yarrowda	28.00	711.3	29.89	759.2	69.8	21.0	95	sw.	1.0	0.4			10			1.73	43.9	overcast	
Trichinopoly	29.63	752.6	29.91	759.7	81.7	27.6	75	ene.	0.1	0.04			10			2.47	62.7	overcast	
Bellary	28.38	721.0	29.85	758.3	79.5	26.4	72	e.					10			0	0	gloomy	
Belgaum	27.34	694.4	29.90	759.3	73.1	22.8	75	ssw.	5.0	2.2			4	s.		0.03	0.8	d. clouds	
Lahore	29.07	738.4	29.81	757.3	79.9	26.6	46	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.98	736.0	29.87	758.7	81.8	27.7	45	calm	0	0			3			0	0	d. clouds	
Agra	29.38	746.3	29.94	760.6	84.7	29.3	34	sw.	8.0	3.6			3		sw.	0	0	d. clouds	
Nagpur	28.80	731.6	29.84	758.0	81.2	27.3	66	sse.	7.0	3.1			9		sw.	0.20	5.1	gloomy	
Jubbulpore	28.57	725.7	29.95	760.7	73.6	23.1	56	ne.	10.0	4.5			10		ne.	0	0	gloomy	
Lucknow	29.61	752.1	30.00	761.9	75.2	24.0	46	sw.	5.0	2.2			10			0	0	overcast	
Allahabad	29.66	753.3	29.98	761.4	73.8	23.2	68	calm	0	0			10			0	0	overcast	
Patna	29.75	755.6	29.93	760.3	81.6	27.6	55	nw.	2.0	0.9			8	nw.	nw.	0	0	d. clouds	
Hazaribagh	27.90	708.8	29.92	760.0	77.3	25.2	36	nnw.	5.4	2.4			10			0	0	overcast	
Cuttack	29.82	757.5	29.91	759.6	80.5	26.9	73	calm	0	0			6			0	0	d. clouds	
Calcutta, Alipore	29.86	758.5	29.88	759.0	82.8	28.2	78	wsw.	0.5	0.2			3			0.08	2.0	d. clouds	
Dhubri	29.80	756.8	29.92	759.9	77.9	25.5	73	calm	0	0			0			0	0	blue sky	
Chittagong	29.84	757.9	29.93	760.2	80.7	27.1	75	wnw.	1.3	0.6			2			0	0	d. clouds	
Sibsagar	29.62	752.3	29.96	761.0	77.8	25.4	78	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.47	723.0	29.91	759.7	81.2	27.3	45	s.	3.7	1.6			1		s.	0	0	d. clouds	
Zanzibar	29.91	759.7			81.5	27.5	67	ene.	4.4	2.0			3	s.	wsw.	0	0	d. clouds	
ITALIAN.																			
Udine	29.80	757.0	30.21	767.3	60.4	15.8	46	e.	6.3	2.8			9			0	0		Prof. Giovanni Clodig.
Milan	29.71	754.5	30.22	767.6	63.0	17.2	66	ese.	3.1	1.4			8	sse.		0	0		Prof. G. V. Schiapparelli
Padua	30.10	764.6	30.21	767.4	57.4	14.1	69	ne.	8.1	3.6			10			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.26	743.3	30.17	766.2	61.5	16.4	67	ssw.	1.3	0.6			8			0	0		Prof. F. F. Denza.
Genoa	29.97	761.3	30.16	766.1	70.3	21.3	56	sw.	1.8	0.8			4	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.29	718.5	30.19	766.9	58.5	14.7	70	w.			2		4			0	0		Prof. D. C. Bruno.
Pesaro	30.15	765.7	30.19	766.9	64.4	18.0	84	nnw.	8.1	3.6			8	sw.		0	0		Prof. Luigi Guidi.
Florence	29.89	759.3	30.15	765.8	69.1	20.6	71	s.			2		6			0.004	0.1		Prof. Costantino Pittei
Leghorn	30.02	762.4	30.10	764.6	68.9	20.5	72	nnw.	4.3	1.9			10			0	0		Prof. P. Tacchini.
Rome	29.96	761.0	30.13	765.4	72.7	22.6	57	ssw.	1.8	0.8			5			0	0		Prof. C. de Giorgi.
Lecce	29.90	759.5	30.15	765.9	66.6	19.2	60	nne.	6.3	2.8			1			0	0		Prof. D. Conti.
Cosenza	29.26	743.2	30.15	765.7	65.5	18.6	62	ssw.	2.5	1.1			9	sw.		0	0		Prof. A. Pacinotti.
Cagliari	29.96	761.0	30.15	765.8	71.4	21.9	48	nw.			6		0			0	0		Prof. G. Cacciatore.
Palermo	29.94	760.4	30.19	766.7	73.0	22.8	51	ne.	3.1	1.4			1			0	0		Sig. Vincenzo Giuliano
Syracuse	30.12	765.0	30.16	766.1	73.0	22.8	64	ssw.	9.4	4.2			3	w.		0	0		
Sub-series.																			
Naples, S. R	29.64	752.8	30.15	765.9	70.0	21.1	73	s.	0.7	0.3			4	w.		0.004	0.1		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.26	768.5	30.29	769.4	49.4	9.7	97	se.			2	5 ck	0	w.		0.012	0.3	fair	H. Hattori.
Awomori	30.24	768.1	30.28	769.1	49.0	9.4	86	calm	0	0		0	2 ck			0	0	fair	K. Ogawa.
Hamamatsu	30.21	767.2	30.31	769.8	65.0	18.3	83	e.			2	5ck;cs	3 s	sw.	sw.	0	0	fair	Sekigawa & Yamazaki.
Kagoshima	30.16	766.1	30.17	766.4	65.0	18.3	91	calm			0	0	0			0	0	clear	G. Miyanohaza.
Kanazawa	30.12	765.0	30.22	767.7	63.1	17.3	87	se.	2.0	0.9			10 n			0.210	5.3	raining	S. Endo.
Kioto	30.05	763.3	30.22	767.7	68.1	20.1	79	nne.	1.4	0.6			10 s			0.017	0.4	cloudy	M. Tojima.
Kochi	30.19	766.9	30.22	767.4	65.4	18.6	96	nw.	0.3	0.1		9cs;ck	s	w.		0.37	9.5	overcast	K. Kusunose.
Miasaka	30.17	766.3	30.20	767.0	64.0	17.8	95	nne.			1	0	0			0	0	clear	K. Masusaki
Miyako	30.23	767.7	30.33	770.5	50.4	10.2	94	wsw.	3.2	1.4		9 c	0			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.95	760.7	30.14	765.5	73.2	22.9	79	s.	1.8	0.8			10 s			0	0	overcast	S. Takehaya.
Niigata	30.22	767.6	30.25	768.3	62.3	16.8	78	se.	2.7	1.2			10 ks		sw.	0.230	5.8	covered	Satoo & Tomikawa.
Nobiru	30.31	769.9	30.33	770.3	55.2	12.9	92	nnw.	4.3	2.0			10s;ks			0.065	1.7	covered	Yoslino & Midzushina.
Numazu	30.29	769.3	30.32	770.2	65.1	18.4	78	ene.			1	10ck;c	0			0	0	hazy	K. Kaneda.
Osaka	30.19	766.9	30.21	767.3	66.5	19.2	86	ne.	6.3	2.8		10 cs	0			0	0	cloudy	H. Omura.
Sakai	30.12	765.0	30.13	765.2	69.6	20.9	78	ese.			2		10 ks		ssw.	0.130	3.3	cloudy	Yamawchi & Sakamoto.
Shimonoseki	29.97	761.3	30.12	765.0	72.0	22.2	85	ese.			2		10 s		wsw.	0.193	4.9	cloudy	S. Sakaro.
Tokei Obs'y, Yeddo	30.26	768.7	30.34	770.6	61.5	16.4	94	nnw.	3.3	1.4			9ks;s		s.	0	0	cloudy	The Staff.
Wakayama	30.14	765.6	30.19	766.9	66.7	19.3	83	ne.	1.6	0.7			10ck;s			0.013	0.3	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	75.4	24.1	64	ene.	12.0	5.4		2 kc	6ks;n;k	ne.	ssw.	0.03	0.8	cloudy	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.01	762.2	58.1	14.5	90	n.	0.9	0.4		2 c	1 s			inap.	inap.	clear	Prof. M. Leal.
Mazatlan	29.66	753.4	29.92	760.0	77.0	25.0	82	nne.	1.6	0.8		10 ck	0	ne.		0	0	covered	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.93	760.4	29.94	760.4	51.3	10.7		sw.			5					0	0		
Groningen	29.76	756.0	29.82	757.4	48.4	9.1		wnw.			4					0.406	10.3		
Helder	29.81	757.2	29.81	757.2	52.9	11.6		sw.			5					0.409	10.4		
Hellevoetsluis	29.92	760.0	29.92	760.0	51.4	10.8	88	sw.			4					0.173	4.4		
Utrecht	29.87	758.8	29.92	760.0	50.7	10.4	91	sw.			4		8			0.248	6.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.90	759.4			81.3	27.4	76	nne.	0.5	0.2			7			0.079	2.0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.14	740.2	29.21	741.8	45.0	7.2	83	s.	13	9			10			0.445	11.3	raining	
Brono	28.69	728.7	28.73	729.7	44.2	6.8	84	sw.			0		9			0.217	5.5		
Christiania	29.04	737.6	29.19	741.3	48.6	9.2	79	ssw.	18	8			4			0	0	light rain	
Gjæsvær	29.01	736.9	29.04	737.5	41.4	5.2		ene.			0		10						
Lodingen	28.82	731.9	28.86	733.1	46.2	7.9	57	ene.			4.6		9			0	0		
PORTUGUESE.																			
Angra, Azores					68.9	20.5	85	w.	2.5	1.1			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.14	765.5	30.22	767.7	73.4	23.0	67	sw.	4.3	1.9			0			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.95	760.7	30.32	770.0	74.7	23.7	56	ne.	8.0	3.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	70.5	21.4	65	calm	0	0			4			0	0		
Saint Paul de Loando	29.72	754.9	29.92	760.0	70.8	24.9	91	wnw.	0.7	0.3			10			0	0		
San Salvador, Congo	28.06	712.8	29.89	759.2	79.3	26.3	64	calm			0		8			0	0		
Serra da Estrella	25.63	650.9	30.20	768.6	63.3	17.4	41	wsw.	7.4	3.3			0			0	0		
RUSSIAN.																			
Akmolinski	29.30	744.2	30.43	773.0	34.5	1.4	56	sw.	7	3			9 k			0	0		Major K. Lasarew.
Archangel	29.39	746.6	29.41	747.1	44.1	6.7	70	sse.	13	6			10			0	0		Capt. Sseliwerstow
Ashurada	30.21	767.3	30.11	764.9	65.5	18.6	69	n.	9	4		6 ck	0			0	0		
Astrakhan	30.31	769.9	30.24	768.0	51.8	11.0	55	se.	20	9		0	0			0	0		Capt. Wisganow.
Baku	30.18	766.5	30.13	765.3	61.5	16.4	71	sse.	18	8		0	2 k			0	0		
Barnaul	30.13	765.4	30.68	779.2	23.9	— 4.5	68	calm	0	0		0	0			0	0		Meteorological Obs'y
Bielosersk	29.18	741.2	29.65	753.0	46.4	8.0	81	sse.	9	4			10 s			0	0		
Dorpat	29.21	741.8	29.45	748.0	44.8	7.1	78	ssw.	13	6			10ks;n			0.051	1.3		Observatory.
Ekaterinburg	29.33	745.0	30.33	770.4	37.6	3.1	88	wsw.	9	4			10 n			0	0		Meteorological Obs'y.
Elissawetgrad	29.61	752.0	30.06	763.6	48.6	9.2	76	nw.	11	5			10 s;n			0.043	1.1		
Irkutsk	28.91	734.2	30.66	778.7	26.6	— 3.0	63	nnw.			3		6			0	0		
Kasalinsk					50.7	10.4	42	ssw.	4	2		cs	5 s;n						
Kasan	29.93	760.3	30.21	767.3	50.7	10.4	58	sse.	16	7		1 c	0			0	0		Observatory.
Kem	29.05	737.9	29.10	739.2	45.1	7.3	85	s.	13	6			10 n			blank	blank		
Kertch	30.16	766.1	30.19	766.7	55.8	13.2	88	wnw.	4	2			10 n			0.315	8.0		Lagorio & Sastyres.
Kieff	29.34	745.2	29.98	761.5	48.2	9.0	58	w.	9	4			9ks;n			0	0		Observatory.
Koslov	29.41	747.1	29.92	760.0	49.3	9.6	88	ssw.	9	4			10 n			0.512	13.0	light rain	
Libau	29.51	749.5	29.53	750.1	48.4	9.1	73	wsw.	20	9			10			0.154	3.9		E. Quaas.
Lugan	29.72	754.9	29.92	760.0	61.3	16.3	56	sse.	13	6			8			0	0		Meteorological Obs'y
Moscow	29.31	744.5	29.79	756.7	45.9	7.7	83	ssw.	2.2	1.0			10 n			0	0		Meteorological Obs'y
Nikolaiev	30.01	762.2	30.08	764.0	50.0	10.0	92	nw.	9	4			10 n			0.146	3.7		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mts. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	29.84	757.9	29.93	760.1	32.5	0.3	76	e.	2	1		0	0						Iwanow.
Pekin, China	29.97	761.2	30.11	764.8	51.8	11.0	63	calm	0	0		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	30.10	764.6	30.47	773.9	48.7	9.3	17	ne.	2.2	1.0		0	0			0	0		
Petrozavodsk	29.18	741.2	29.38	746.2	45.3	7.4	85	ssw.	34	15		7 ck	0			0.028	0.7		Dr. Bergmann.
Pinsk	29.45	748.2	29.96	761.0	45.9	7.7	68	w.	22	10			9 s			0.122	3.1		
Poti	29.97	761.3	30.00	762.1	70.9	21.6	94	nw.	4	2		0	8 n			0	0		
St. Petersburg	29.41	747.1	29.44	747.7	48.6	9.2	61	sw.	16	7		0	8 kn			0.047	1.2		Central Physical Obs'y.
Samarkand	27.85	707.3	30.43	772 8	37.9	3.3	83	se.	13	6		0	0			0	0		
Semipalatinsk	30.00	762.0	30.70	779.8	30.7	— 0.7	42	calm	0	0			0			0	0		Major Lasarew
Sevastopol	29.80	756.8	30.01	762.2	59.7	15.4	86	w.	16	7			10 n			0.173	4.4	h'vy clouds	
Staroi Bykhov	29.31	744.5	29.87	758.8	44.2	6.8	76	ssw.	13	6			9 kn			0.189	4.8		
Tashkend Laboratory	28.67	728.1	30.38	771.7	46.6	8.1	42	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.69	728 8	30.11	764.7	59.0	15.0	50	s.	2	1		7 ck	0			0	0		Physical Observatory.
Vernoe	27.91	708.8	30.55	776.0	31.8	— 0.1	62	calm	0	0		0	8 k			0	0		
Viatka	29.47	748 5	30.11	764.7	46.0	7.8	59	s.	7	3			10			0	0		
Warsaw	29.52	749.9	29.95	760.8	44.6	7.0	81	w.	20	9		0	8 k			0.012	0.3	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.22	767.5	30.53	775.4	19.4	— 7.0	84	w.	7	3			10			0.008	0.2	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.15	765.8	30.25	768.4	71.2	21.8	74	se.	3.4	1.5		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.20	767.1	30.26	768.6	77.0	25.0	62	se.	1.1	0.5		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.39	695.7	30.32	770.1	63.9	17.7	73	sw.	1.3	0.6		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.11	714.0	30.30	769.6	70.3	21.3	60	s.	3.1	1.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.15	765.7	30.26	768.7	77.7	25.4	65	e.	2.7	1.2		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.52	749.9	30.28	769.2	59.0	15.0	96	s.	7.2	3.2						0.055	1.4	fair	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.37	746.0	30.25	768.4	67.8	19.9	81	calm	0	0			2			0.008	0.2	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.89	759.3	29.96	761.0	73.5	23.1	85	se.	2.7	1.2		ics;ck	s	n.		0.75	19.1	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.7	29.97	761.2	78.5	25.8	89	s.	4.4	2.0			10 n			0.287	7.3	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.16	766.0	30.26	768.4	78.4	25.8	43	e.	16.2	7.2		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.91	759.7	30.00	762.0	79.5	26.4	89	calm	0	0		2 s	3 k	e.	e.	0.114	2.9		Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	28.91	734 4	28.95	735.4	39.9	4.4	97	se.			2		8			0.567	14.4		
Umea	28.87	733.2	28.92	734.5	41.0	5.0	90	sw			2		9			0	0		
Hernosand	28.91	734.3	28.96	735.6	46.4	8.0	59	wsw.			2		10			0.008	0.2		
Stockholm	29.03	737.4	29.21	741.9	47.5	8.6	68	wsw.			2		10			0.031	0.8		
Wisby	29.32	744.6	29.37	746.1	48.2	9.0	73	w.			7		5			0.220	5.6		
Sub-series.																			
Upsala	29.07	738.3	29.15	740.5	47.7	8.7	63	sw.	15.2	6.8			3			0	0		H.H.Hildebrandesson
Swiss.																			
Geneva	28.82	731.9	30.22	767.7	59.2	15.1	56	ssw.			2		1			0	0	clear	The Observatory.
Turkish.																			
Constantinople			30.07	763.8	63.7	17.6	68	n.	19	8.5			10		n.	0.008	0.2		
Valona			30.24?	768.1?	71.1	21.7		nw.			1		2			0	0	slightly cld'y	The Observatory.
Sub-series.																			A. Bertrand.
Beirut, Lee Obs'y, Syria			29.92	760.0	75.4	24.1	58	wsw			1		9 k		ssw.	0	0		
Samokov, Bulgaria	26.94	684.3			60	15.6	72	calm			0		9 k		calm	0	0	cloudy	F. Nimr, B. A., Dir Fred L. Kingsbury.
United States.																			
Albany, New York	30.24	768.1	30.32	770.1	53	11.7	72	s.	9	4.0			10 s		w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.98	761.5	50	10.0	86	sw.	0	2.7		4 k	3 s	sw.		0.08	2.0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 08	637.0	29.98	761.5	32.0	0.0	81	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.44	697.0	30.36	771.1	35	1.7	89	calm	0	0			fg.			0.35	8.9	dense fog	B. O. Lenoir.
Atlanta, Georgia	29.13	739.9	30.32	770.1	56.3	13.5	91	e.	9	4.0			10 s			0	0	cloudy	Edward A. Beale.
Atlantic City, New Jersey	30.37	771.4	30.38	771.6	55.6	13.1	93	calm	0	0		5 ck	fg.			0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.14	765.5	30.33	770.4	59.3	15.2	82	ne.	6	2.7		0	7 k;s		e.	0	0	fair	Louis Duane.
Baltimore, Maryland	30.33	770.4	30.38	771.6	57	13.9	80	s.	3	1.3		7 k;cs	0	sw.		0	0	fair	Geo. W. Feiger.
Barnegat City, New Jersey	30.36	771.1	30.38	771.6	58.0	14.4	93	calm	0	0			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.76	730.5	30.38	771.6	35.0	1.7	89	n.	6	2.7			10 s		nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.51	698 7	30.42	772.7	32	0.0	81	calm	0	0			10 s			0.50	12.7	cloudy	Thomas Morgan.
Bismarck, Dakota	28.33	719.6	30.21	767.3	28	— 2.2	67	n.	10	4.5		0	0			0.05	1.3	clear	B. O. Lenoir.
Block Island, Rhode Island	30.37	771.4	30.40	772.1	56.5	13.6	83	s.	6	2.7			10 s		w.	0	0	cloudy	J. T. Eiker.
Boise City, Idaho	27 29	693.2	30.15	765.8	33	0.6	88	n.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.24	768.1	30.40	772.1	51.0	10.6	80	sw.	5	2.2			10 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.96	761.0	77.0	25.0	97	calm	0	0		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.38	746.2	30.14	765.5	57	13.9	74	s.	17	7.6			10 s		sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.33	719.6	30.43	772.9	29	— 1.7	80	ne.	10	4.5			10 s		ne.	0.21	5.3	cloudy	A. Schneider.
Cairo, Illinois	29.77	756.1	30.17	766 3	62.6	17.0	96	sw.	1	0.4			10 n		sw.	1.51	38.4	heavy rain	W. H. Ray.
Canby, Fort, Washington Ter	29.88	758.9	30.08	764.0	46.8	8.2	94	se.	14	6.3			10 s		w.	0.23	5.8	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.36	771.1	30.38	771.6	60.0	15.6	93	e.	4	1.8		1 c	fg			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.33	770.4	30.36	771.1	59.0	15.0	87	s.	2	0.9			10 s			0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	30 34	770.6	30.03	762.7	48	8.9	82	nw.	16	7.2		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.07	763.8	30.09	764 3	74.0	23.3	90	e.	17	7.6		1 c	0	w.		inap.	inap.	clear	G. W. Davis.
Charleston, S. Carolina	30.20	767.1	30.26	768.6	64.0	17.8	93	ne.	10	4.5		3 ck	5 s	ne.	ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.52	749.8	30.38	771.6	53.8	12.1	88	ne.	5	2.2			10 s		e.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.46	748.3	30.29	769.4	58.0	14.4	86	se.	4	1.8		0	8 n		s.	inap.	inap.	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	30.22	767.6	32.9	0.5	46	w.	1	0.4			10 s		nw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.33	745.0	30.04	763.0	59.0	15.0	93	sw.	2	0.9			10 ks		w.	0.93	23.6	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.36	771.1	30.38	771.6	58.5	14.7	96	nw.	1	0.4		5 ck	fg.			0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.54	750.3	30.20	767.1	63.3	17.4	100	sw.	6	2.7			10 n		sw.	0.20	5.1	light rain	L. Dunne.
Cleveland, Ohio	29.39	746.5	30.13	765.3	61.3	16.3	79	s.	7	3.1		3 c	6 k	w.	sw.	0.04	1.0	cloudy	J. B. Newlin.
Columbus, Ohio	29.32	744.7	30.18	766.6	61	16.1	84	s.	5	2.2			10 s		s.	0.02	0.5	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.10	713.7	30.05	763.3	56.5	13.6	93	calm	0	0			10 k		s.	0	0	cloudy	C. E. King.
Custer, Fort, M. T	27.07	687.6	30.31	769.9	34	1.1	82	e.	2	0.9			10 s		e.	0.14	3.6	cloudy	T. Gibson.
Davenport, Iowa	29.40	746.7	30.06	763.5	52.1	11 2	80	w.	2	0.9		1 cs	liz.	w.		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	30.11	764.8	44.5	6.9	70	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.35	720.1	30.14	765.5	38.5	3.6	73	e.	3	1.3		9 k	0	w.		0	0	cloudy	D. Moore.
Deadwood, Dakota	25.66	651.8	30.34	770.6	32.2	0.1	100	calm	0	0			10 n			0.05	1.3	light snow	F. Des Willson.
Delaware Breakwater, Del	30.36	771.1	30.38	771.6	56.5	13.6	93	sw.	4	1.8		0	9 k		sw.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.93	633.2	30.19	766.8	43.0	6.1	67	se.	4	1.8			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.23	742.4	30.15	765.8	43	6.1	83	nw.	1	0.4		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.39	746.5	30.10	764.5	60.0	15.6	87	se.	7	3.1		10 k	0	se.		0.28	7.1	cloudy	E. R. Brace.
Dodge City, Kansas	27.57	700 3	30.20	767.1	43	6.1	83	nw.	16	7.2		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.36	745.7	30.08	764.0	45	7.2	78	w.	1	0.4		0	2 s;fg			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.06	763 5	37	2.8	72	nw.	12	5.4			10 s		nw.	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.33	770.4	30.40	772.1	48.0	8.9	71	sw.	9	4.0			10 s			0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	30.12	765.0	48	8.9	93	ne.	3	1.3		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.37	669.8	30.11	764.8	42.2	5.7	76	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.40	746.7	30.13	765.3	59	15.0	81	s.	10	4.5			10 s		w.	0.01	0.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.26	743.2	29.93	760.2	45.5	7.5	72	sw.	7	3.1		0	0			0	0	clear	George Heatcote.
Galveston, Texas	29.96	761.0	30.00	762.0	79.5	26.4	88	s.	8	3.6		2 cs	4 ks		sw.	0	0	fair	E. O'C. Macinerney
Grand Haven, Michigan	29.33	745.0	30.00	762.0	57.0	13.9	98	sw.	8	3.6			10 s		sw.	0.14	3.6	cloudy	Wm. H. Fallon.

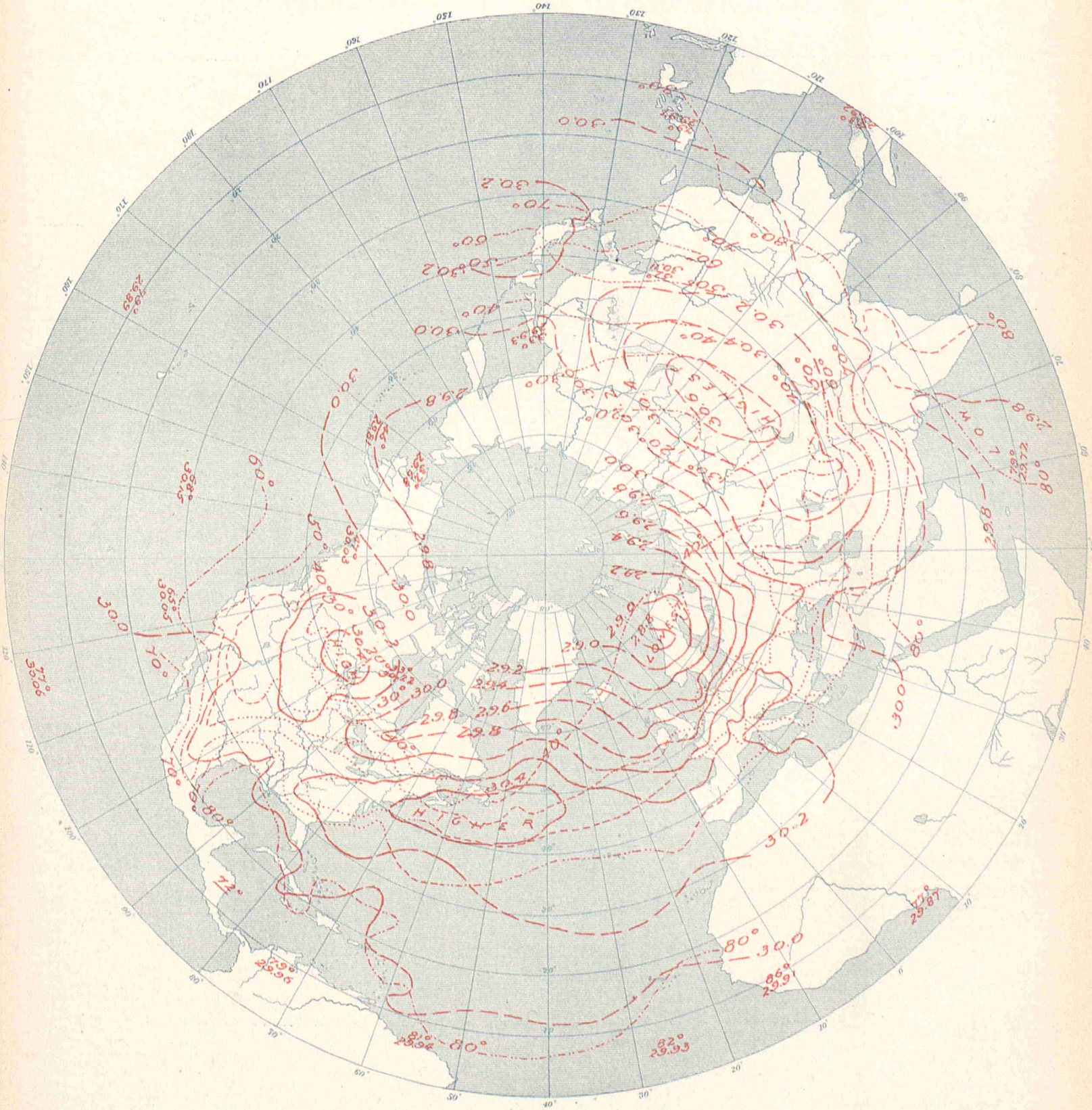
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.26	641.6	29.96	761.0	47.5	8.6	49	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.35	770.9	30.36	771.1	63.0	17.2	100	ne.	6	2.7	.....	3 c	3 k	e.	.....	0	0	fair	R. M. Crawford.
Helena, Montana	25.98	659.9	30.28	769.1	32	0.0	88	nw.	1	0.4	.....	.....	10 n	.....	.....	blank	blank	light snow	I. H. Jones.
Huron, Dakota	28.88	733.5	30.31	769.9	35.5	1.9	78	n.	8	3.6	.....	0	3 s	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.10	764.5	62.2	16.8	87	s.	6	2.7	.....	.....	10n;fg	.....	s.	1.12	28.4	light rain	O. F. R. Wappenhans.
Indianola, Texas	29.95	760.7	29.98	761.5	78.0	25.6	90	s.	5	2.2	.....	0	2 ks	.....	se.	0.16	4.1	clear	I. A. Reed.
Jacksonville Florida	30.12	765.0	30.16	766.1	75.3	24.1	76	e.	8	3.6	.....	2 cs	4 s	.....	e.	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.43	747.5	30.10	764 5	53.0	11.7	86	w.	2	0.9	.....	0	0	.....	.....	0.05	1.3	clear	F. Z. Gosewisch.
Key West, Florida	29.94	760.5	29.96	761.0	76	24.4	85	e.	3	1.3	.....	0	8 n	.....	ne.	0.26	6.6	light rain	A. W. Browne.
Kittyhawk, North Carolina	30.36	771.1	30.38	771.6	64	17.8	93	e.	6	2.7	.....	4 ck	hz.	e.	.....	0	0	fair	Wesley Blake.
Knoxville, Tennessee	29.26	743.2	30.30	769.6	58.3	14.6	98	calm	0	0	.....	.....	10 n	.....	.....	inap.	inap.	light rain	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.09	764.3	45.5	7.5	67	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.25	742.9	30.15	765.8	45	7.2	93	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.34	745.2	30.18	766.6	39.0	3.9	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.73	755.1	30.05	763.3	65.0	18.3	93	e.	6	2.7	.....	.....	10 n	.....	.....	1.31	33.3	light rain	W. U. Simons.
Los Angeles, California	29.63	752.6	30.03	762.7	46	7.8	93	n.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	T. S. Collins.
Louisville, Kentucky	29.60	751.8	30.16	766.1	62.0	16.7	85	s.	7	3.1	.....	.....	10 s	.....	s.	0.24	6.1	cloudy	L. M Dey.
Lynchburg, Virginia	29.67	753.6	30.36	771.1	55.0	12.8	80	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.27	743.4	29.94	760.5	50.0	10.0	74	sw.	6	2.7	.....	0	0	.....	.....	0.05	1.3	clear	D. B. Notson.
Macon, Fort, North Carolina	30.34	770.6	30.36	771.1	63.0	17.2	90	ne.	13	5.8	.....	4 k	0	se.	.....	0	0	fair	William Daly.
Maginnis, Fort, Montana	25.81	655.6	30.35	770.9	31	— 0.6	81	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.94	23.9	cloudy	F. Burke.
Marquette, Michigan	29.16	740.7	29.90	759.4	45.8	7.7	65	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.12	765.0	62	16.7	100	se.	8	3.6	.....	.....	10 n	.....	.....	0.53	13.5	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.03	762.7	49.0	9.4	93	w.	7	3.1	.....	3 cs	fg.	w.	.....	0.01	0.3	clear	W. Line.
Mobile, Alabama	30.11	764.8	30.15	765.8	68.6	20.3	78	ne.	8	3.6	.....	2 c	0	.....	.....	0	0	clear	H. U. Jones.
Montgomery, Alabama	30.00	762.0	30.23	767.8	64	17.8	78	e.	7	3.1	.....	2 cs	7 s	.....	e.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.16	740.7	30.18	766.6	26	— 3.3	88	n.	24	10.7	.....	.....	10 s	.....	n.	0.12	3.0	cloudy	H. Bessant.
Mt. Washington, N. H	24.00	609.6	30.34	770.6	40.3	4.6	98	w.	36	16.1	.....	.....	fg.	.....	w.	0	0	dense fog	S. W. Beall.
Nashville, Tennessee	29.61	752.1	30.19	766.8	60.5	15.8	90	se.	2	0.9	.....	.....	10 ks	.....	sw.	0.83	21.1	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.26	768.6	30.38	771.6	55.5	13.1	79	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.36	771.1	30.41	772.4	54	12.2	91	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	75.0	23.9	90	e.	6	2.7	.....	0	8 s	.....	s.	1.22	31.0	cloudy	M. Herman.
New York, New York	30.20	767.1	30.38	771.6	57.1	13.9	80	s.	8	3.6	.....	.....	10 s	.....	sw.	0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	30.34	770.6	30.37	771.4	57.0	13.9	93	calm	0	0	.....	4 cs	fg.	.....	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.34	694.4	30.30	769.6	35.6	2.0	84	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	46.0	7.8	93	s	1	0.4	.....	.....	10 n	.....	s	0.28	7.1	light rain	J. Dascomb.
Omaha, Nebraska	29.05	737.9	30.25	768.3	41.7	5.4	86	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.83	757.7	30.16	766.1	54.0	12.2	80	s.	9	4.0	.....	.....	10 s	.....	sw.	0.08	2.0	cloudy	J. G. Linsley
Palestine, Texas	29.46	748.3	30.02	762.5	74.0	23.3	94	s.	15	6.7	.....	10 cs	0	.....	.....	0.15	3.8	cloudy	L. M. Pindell.
Pensacola, Florida	30.12	765.0	30.15	765.8	69.3	20.7	83	ne.	13	5.8	.....	0	4 s	.....	e.	0	0	fair	M. McGauran.
Philadelphia, Pa	30.29	769.4	30.39	771.9	56	13.3	90	s.	2	0.9	.....	.....	10 ks	.....	s.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	30.11	764.8	11	—11.7	100	w.	16	7.2	.....	0	8 ks	.....	w.	0	0	cloudy	H. Hall.
Pittsburg, Pennsylvania	29.39	746.5	30.21	767.3	60.5	15.8	68	sw.	6	2.7	.....	3 cs	0	sw.	.....	inap.	inap.	clear	G. O Schaeffer.
Port Huron, Michigan	29.33	745.0	30.02	762.5	57.0	13.9	93	s.	8	3.6	.....	.....	10 s	.....	.....	0.17	4.3	cloudy	M. H. Perry
Portland, Maine	30.29	769.4	30.34	770.6	50	10.0	77	sw.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	45.0	7.2	100	calm	0	0	.....	.....	10 s	.....	s.	0.16	4.1	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.80	629.9	29.96	761.0	32.4	0.2	83	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass	30 39	771.9	30.42	772.7	51.5	10.8	89	s.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	O. N. Kitchel.
Red Bluff, California	29.66	753.4	30.02	762.5	46	7.8	68	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	78.0	25.6	88	se.	10	4.5	.....	0	7 s	.....	se.	0	0	fair	Fred. Belford.
Rochester, N. Y	29.47	748.5	30.14	765.5	54	12.2	77	sw.	20	8.9	.....	8 k	0	w.	.....	0	0	cloudy	
Roseburg, Oregon	29.58	751.3	30.14	765.5	42	5.6	89	sw.	1	0.4	.....	0	8k;s	.....	w.	0.03	0.8	cloudy	J. J. Naury.
Sacramento, California	29.93	760.2	30.01	762.2	49.5	9.7	77	se.	5	2.2	.....	3 ck	0	sw.	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.48	748.8	30.10	764.5	64.2	17.9	96	sw.	10	4.5	.....	0	7s;fg	.....	sw.	0.11	2.8	fair	J. H. Weber.
St. Michael, Fort, Alaska	29.65	753.1	29.68	753.9	32	0.0	88	s.	9	4.0	.....	6 ck	0	s.	.....	0	0	fair	Fred. H. Clarke.
St. Paul, Minnesota	29.20	741.7	30.07	763.8	42.5	5.8	62	nw.	11	4.9	.....	.....	10 s	.....	nw.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.47	748.5	30.37	771.4	18	— 7.8	83	nw.	1	0.4	.....	0	0	.....	.....	0.22	5.6	clear	C. B. Dilley.
Salt Lake City, Utah	25.73	653.5	30.13	765.3	35	1.7	56	calm	0	0	.....	10 cs	0	w.	.....	0	0	cloudy	J. Craig.
San Diego, California	29.93	760.2	30.00	762.0	57.4	14.1	78	ne	7	3.1	.....	10 k	0	w.	.....	0	0	cloudy	F. R. Day.
Sanford, Florida	30.02	762.5	30.07	763.8	72.6	22.6	97	ne.	6	2.7	.....	.....	10 n	.....	ne.	1.32	33.5	light rain	J. B. Marbury.
Sandusky, Ohio	29.43	747.5	30.12	765.0	60	15.6	87	sw.	12	5.4	.....	2 c	4 s	sw.	sw.	0.07	1.8	fair	B. F. Hough.
Sandy Hook, New Jersey	30.37	771.4	30.40	772.1	59.0	15.0	75	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	B. A. Blundon
San Francisco, California	29.95	760.7	30.02	762.5	51.0	10.6	93	sw.	7	3.1	.....	0	fg.	.....	sw.	0	0	clear	N. Gorom.
Savannah, Georgia	30.15	765.8	30.24	768.1	64.2	17.9	92	n.	4	1.8	.....	3 cs	0	.....	.....	0.01	0.3	clear	H. W. Ford.
Shaw, Fort, Montana	26.61	675.9	30.31	769.9	30	— 1.1	88	calm	0	0	.....	.....	fg.	.....	.....	0.22	5.6	dense fog	S. W. Morrison.
Shreveport, Louisiana	29.75	755.6	29.99	761.7	74.0	23.3	94	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W M. Mattingly
Sitka, Alaska	29.96	761 0	30.03	762.7	44.7	7.1	83	e.	10	4.5	.....	.....	10 ks	.....	e.	0.19	4.8	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.04	763.0	67.2	19.6	93	e.	3	1.3	.....	0	4 s	.....	s.	0	0	fair	J. B. Campbell.
Smithville North Carolina	30.29	769.4	30.33	770.4	61.9	16.6	87	n.	6	2.7	.....	3 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.13	714.5	30.21	767.3	34	1.1	66	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	John F. Hemenway.
Springfield, Illinois	29.38	746.2	30.07	763.8	61	16.1	93	w.	4	1.8	.....	.....	10s;fg	.....	w.	0.08	2.0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.05	687.1	30.08	764.0	47.0	8.3	86	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	30.02	762.5	.....	.....	45.3	7.4	94	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.26	692.4	29.97	761.2	38	3.3	41	se.	.....	.....	1	0	0	.....	.....	0	0	clear	R. C. Lord.
Toledo, Ohio	29.37	746.0	30.07	763.8	61	16.1	87	sw.	10	4.5	.....	3 c	3 k	nw.	sw.	0.30	7.6	fair	A. Buell.
Unalashka, Alaska	29.79	756.7	29.81	757.2	46	7.8	76	s.	24	10.7	.....	.....	10 s	.....	s.	0.10	2.5	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.84	757.9	30.10	764.5	70.3	21.3	93	e.	3	1.3	.....	.....	10 s	.....	se.	0.82	20.8	cloudy	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.26	768.6	30.38	771.6	55.8	13.2	87	s.	2	0.9	.....	5 cs	2 k	sw	s.	0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.24	666.5	30.17	766.3	42	5.6	72	ne.	9	4.0	.....	.....	10 s	.....	ne.	0	0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.29	769.4	30.35	770.9	60.0	15.6	87	ne.	7	3.1	.....	5c;sk	0	.....	.....	0	0	fair	Samuel A. Haney.
Yankton, Dakota	28.91	734.3	30.24	768.1	38.6	3.7	86	nw.	11	4.9	.....	10 k	0	n	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.77	756.1	29.92	760.0	53.3	11.8	84	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	78	25.6	.....	nw.	.....	.....	2	.....	10 n	.....	n.	0.20	5.1	raining	W. H. Jackson.
Bogota, U. S. C.	22.00	558.8	.....	.....	53.6	12.0	85	s.	7	3	.....	.....	8s;ks	.....	ne.	0.299	7.6	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.95	760.7	76.2	24.6	82	n.	2	0.9	.....	1 cs	1 s	.....	.....	0	0	clear	Robert Johnstone.
Paramaribo, S. A.	29.93	760.2	29.94	760.5	81	27.2	78	se.	.....	.....	2	3 c	0	.....	.....	0	0	clear	Dr. C. J. Herne.
Puerto Berrio, U. S. C.	29.40	746.7	29.96	761.0	79	26.1	85	calm	.....	.....	0	.....	10 ks	.....	sw.	0.10	2.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	72.4	22.4	89	ene.	.....	.....	1	6 c	1 ks	se.	ene.	0.03	0.8	fair	Earl Flint.
York Factory, B. A.	30.16	766.1	30.22	767.6	32.5	0.3	94	nw.	10	4.5	.....	1 c	1 s	nw	nw.	0	0	.....	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 39° 15′, E. 25° 51′	30.12	765.0	68	20.0	74	nnw.			3		1	nnw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.08	764.0	67	19.4	84	nne.			5		7	nne.						squally.
H. M. S. Himalaya, N. 49° 37′, W. 5° 56′			57	13.9	87						9					6	wsw.	d. clouds.
H. M. S. Iris, Alexandria, Egypt	30.04	763.0	73	22.8	81	nnw.			3		5							d. clouds.
H. M. S. Inflexible, N. 39° 38′, E. 19° 57′	30.10	764.5	73	22.8	95	wsw.			1		1	wsw.						blue sky.
H. M. S. Monarch, Mitylene, Turkey	30.04	763.0	69	20.6		nnw.			2		0							blue sky.
H. M. S. Opal, Niger river, W. Africa	29.87	758.7	77	25.0	86	sw.			1		6	calm						d. clouds.
H. M. S. Superb, N. 36° 17′, E. 23° 13′			70	21.1	95	wnw.			1		4	nnw.				1	wnw.	d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guiana	29.89	759.3	84.4	29.1	78	sse.			4		9		sw.			4	se.	overcast.
U. S. Navy Yard, Portsmouth, N. H*	30.31	769.9	49	9.4	71	se.	10	4.5			10		sw.	0	0			cloudy.
U. S. S. Alliance, Newburgh, N. Y	30.39	771.9	56	13.3	87	sw			2		10			0	0			overcast.
U. S. S. Jamestown, N. 35° 56′, W. 70° 35′	30.32	770.1	68	20.0	79	ene.			5		8		ene.			sm'h	ne.	squally.
U. S. S. Kearsarge, N. 36° 37′, W. 3° 49′	30.32	770.1	72	22.2	71	e.			1		0							clear.
U. S. S. Lancaster, N. 36° 37′, W 3° 44′	30.33	770.4	75	23.9	72	calm			0		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R I			57	13.9	75	ssw.			3		10		sw.			sm'h		cloudy.
U. S. S. Portsmouth, Newburgh, N. Y	30.37	771.4	54	12.2	87	sw.			3		10		sw.					cloudy.
U. S. S. Powhatan, Boston, Mass	30.41	772.4	52	11.1	79	ssw.			1		10							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	69	20.6	80	n.			1		5		ene.					fair.
U. S. S. Saratoga, Newburgh, N. Y	30.37	771.4	54	12.2	93	sw.			3		10		sw.	0	0	sm'h	sw.	overcast.
U. S. S. Swatara, N. 23° 57′, W. 74° 21′	30.03	762.7	80	26.7	82	e.			5		5		e.	0	0	mod.	e.	fair.
U. S. S. Vandalia, Newburgh, N. Y†	30.37	771.4	57	13.9	87	w.			1		10							cloudy.
S. S. Lord Clive, N. 45° 34′, W. 51° 01′						e.			1		4		e.	0	0	sm'h		fine.
S. S. Lord Gough, N. 51° 22′, W. 13° 55′	29.77	756.1	52	11.1		w.			6		5		w.	sh'rs	sh'rs	rg'h	w.	cloudy
S. S. Ohio, Liverpool, Eng†	29.71	754.6	50	10.0	93	sw.			2		10		sw.	4 h'r	4 h'r			cloudy.
S. S. Circassian, N. 53° 05′, W. 50° 09′	30.22	767.6	44	6.7	92	sw.			6		10		sw.			4	wsw.	d. clouds.
S. S. Nova Scotian, St. Johns, N. F	30.45	773.4	46	7.8		sw.			3		2		wnw.					fair.
S. S. Prussian, N. 51° 02′, W. 39° 14′	30.33	770.4	50	10.0		nnw.			3		3		nnw.	0	0	long	nnw.	clear.
S. S. Alvo, N. 32° 35′, W. 74° 10′*	30.26	768.6	71	21.7		ne.			6		10		ene.	0	0	long	e.	overcast.
S. S. Andes, N. 35° 50′, W. 74° 14′ *†	30.33	770.4	70	21.1					2		2					sm'h		fine.
S. S. Ailsa, N. 9° 56′, W. 77° 56′			78	25.6	91	wsw.			2		10		calm	¼ h'r	¼ h'r	sm'h		overcast.
S. S. Avilla, N. 36° 33′, W. 71° 49′			71	21.7		e.			4		3		e.	0	0		e.	
S. S. Assyria, N. 52° 47′ W. 31° 47′	30.03	762.7	46	7.8	92	wnw.			6		8		wnw.	0	0	h'vy	wnw.	cloudy.
S. S. Devonia, N. 45° 23′, W. 50° 17′*†	30.57	776.5	46	7.8		ese.			1		6		wsw.			sll't	nnw	fine.
S. S. Dorian, N. 41° 31′, W. 37° 00′	30.58	776.7	64	17.8		ene.			6		10		ne.	8 h'r	8 h'r	r'gh	ne.	overcast.
S. S. Furnessia N. 45° 57′, W. 44° 24′†	30.58	776.7	58	14.4	70	ne.			4		7		ne.	0	0	long	nne.	cloudy.
S. S. Llandaff City, New York, N. Y†	30.39	771.9	56	13.3		s.			4		8		s.	0	0			cloudy.
S. S. Cephalonia, N. 51° 17′, W. 13° 53′	29.85	758.2	55	14.4	82	wsw.			3		9		wsw.	3 h'r	3 h'r	r'gh	wnw.	squally.
S. S. Bothnia, N. 40° 47′, W. 61° 10′	30.42?	772.7?	68	20.0	90	ene.			5		8		ene.	0	0	mod.	ene.	fair.
S. S. Arizona, N. 46° 22′, W. 50° 01′	30.58	776.7	47	8.3		calm			0		2		ene.	0	0	sm'h		clear.
S. S. Wyoming, N. 48° 34′, W. 39° 16′	30.46	773.7	48	8.9		wnw.			4		4		w.	2 h'r	2 h'r	long	nnw.	fair.
S. S. Bohemia, N. 49° 39′, W. 14° 43′						nw.			5–6		8		nw.	3 h'r	3 h'r	r'gh	nw.	squally.
S. S. Gellert, Dover, Eng			53	11.7	86	w.			5		10		sw.	4 h'r	4 h'r	sm'h		cloudy.
S. S. Silesia, N. 46° 40′, W. 43° 10′	30.59	777.0	49	9.4		n.			3		9		n.	0	0	mod	n.	covered.
S. S. Westphalia, N. 45° 49′, W. 45° 01′			58	14.4	82	nnw.			3		3		nw.	0	0	mod.	nw.	fair.
S. S. Nessmore, Liverpool, Eng	29.72	754.9	51	10.6	100	nnw.			6		8		nw.	12 h'r	12 h'r			raining.
S. S. Bulgarian, N. 46° 05′, W. 48° 59′*	30.51	774.9				w.			1		3		w.	0	0	light	nw.	clear.
S. S. Archimedes, N. 37° 05′, W. 10° 42′	30.28	769.1				nne.			4		5		nw.	0	0	mod.	nw.	fine.
S. S. Hevelius, Liverpool, Eng†	29.69	754.1	53	11.7		wsw.			4				sw.	8 h'r	8 h'r			raining.
S. S. Rosse, N. 16° 25′, W. 25° 12′*	29.99	761.7	80	26.7		nne.			5				nne.	0	0	sm'h		clear.
S. S. Rio Grande, N. 34° 07′, W. 76° 43′†	30.41	772.4	73	22.8		e.			3		6?		s.	0	0	mod.	e.	clear.?
S. S. Chalmette, N. 27° 22′, W. 86° 45′†	30.00	762.0	79	26.1		ene.			4		5		ene.	4 h'r	4 h'r	r'gh	ne.	fair.
S. S. New York, N. 33° 30′ W. 76° 00′ *†	30.36	771.1	76	24.4		ese.			4		10		e.	0	0	mod.	e.	cloudy.
S. S. Alleghany, Norfolk, Va†	30.45	773.4	58	14.4		calm			0		0			0	0			hazy.
S. S. Archimede, N. 38° 34′, W. 65° 34′†	30.37	771.4	68	20.0		ne.			4		6		ene.	0	0	hv'y	ene.	cloudy.
S. S. City of Washington, N. 23° 06, W. 83° 31′			85	29.4		se.			3		8		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, Cienfuegos, Cuba, W I			79	26.1		ne.			1		5		se.	0	0			fine.
S. S. Egypt, N. 42° 19′, W. 55° 27′	30.48	774.2	50	10.0		ene.			3		8		ene.	0	0	mod	ene.	fair.
S. S. Grecian, Glasgow, Scotland	29.59	751.6	53	11.7	93	w.			6		9		w.	3 h'r	3 h'r			squally.
S. S. Erin, N. 49° 04′, W. 21° 20′			51	10.0		wnw.			6		8		nw.	0	0	h'vy	nw.	cloudy.
S. S. The Queen, N. 51° 12′, W. 13° 47′			49	9.4		w.			5		8		wnw.	6 h'r	6 h'r	h'vy	wnw.	rainy.
S. S. America, Cape Charles, Va*	30.30	769.6	64.0	17.8	89	ese.			3		3		ese.	0	0	mod	se.	clear.
S. S. Elbe, N. 41° 55′, W. 63° 23′	30.54	775.6	50.9	10.5	94	ne.			2–3		4		ne.	0	0	sm'h	ne.	fair.
S. S. Habsburg, N. 47° 01′, W. 44° 56′	30.60	777.2				n			3		3		ne.	0	0	sm'h	n.	clear.
S. S. Orinoco, N. 38° 34′, W. 71° 51′†	30.40	772.1	60	15.6		s.			2		0			0	0	h'vy	e.	clear.
S. S. Neckar, N. 40° 37′, W. 70° 55′	30.41	772.4	56.0	13.3	87	e.			1–2		4?		se.	0	0	sm'h	e.	cloudy?
S. S. Oder, N. 50° 38′, W. 18° 41′	29.99	761.7	52.7	11.5		w.			5		7		wnw.	7 h'r	7 h'r	rg'h	var.	squally.
S. S. Ohio, Cape Henry, Va	30.43	772.9				ne.			1–2		3		ne.	0	0	sm'h		clear.
S. S. Salier, N. 48° 02′, W. 37° 01′*	30.37	771.4	50.0	10.0		nw.			4		9		n.	1 h'r	1 h'r	cross	n	cloudy.
S. S. Strassburg, N. 47° 01′, W. 42° 58′	30.59	777.0	47.5	8.6	62	n.			3		9		n.	0	0	5	n.	cloudy.
S. S. Werra, N. 43° 49′, W. 58° 10′			48.2	9.0		se.			4–5		10		se.	2 h'r	2 h'r	mod.	se.	cloudy.
S. S. Weser, N. 24° 22′, W. 81° 19′	30.03	762.7	77.9	25.5		e.			2		4		e.	½ h'r	½ h'r	mod.	e.	fair.
S. S. City of Augusta, N. 37° 21′, W. 74° 48′						sse.			2		5		se.			sm'h		fine.
S. S. Muriel, N. 36° 58′ W. 72° 50′			70	21.1		ne.			3		0			0	0	mod	e.	clear.
S. S. Belgenland, N. 46° 06′, W. 45° 31′			70	21.1	75	n.			2		6		fine.	0	0	long	nnw.	fair.
S. S. Rhynland, Antwerp, Belgium	29.98	761.5	57	13.9		sse.			4		5		e.	0	0			fair.
S. S. Pennland, Antwerp, Belgium †	29.98	761.5	53	11.7	80	sw.			3		7		sw.	0	0			overcast?
S. S. Waesland, New York, N. Y	30.38	771.6	58	14.4		sse.			4		10		sse.	0	0			overcast.
S. S. Leerdam, N. 42° 38′, W. 61° 43′*			54.7	12.6	83	e.			2		2		e.	0	0			clear.
S. S. Zaandam, N. 48° 59′, W. 27° —	30.23	767.8	57.6	14.2	73	n.			3		6		nw.	0	0	mod.	nw.	fair.
S. S. Caracas, Curacoa, W I*†	29.90	759.4	82.5	28.1	89	ene.			4		8		ene.	1 h'r	1 h'r	sm'h		squally.
S. S. W. A Scholten, N. 41° 57′ W. 64° 28′	30.51	774.9	52.7	11.5	75	ene.			4		3		ene.	0	0			clear.
S. S. Valencia, N. 36° 33′, W. 73° 04′	30.39	771.9	72.5	22.5	71	e.			3		5		n.	0	0	h'vy	ene.	fair.
S. S. State of Nebraska, N. 53° 37′, W. 25° 55′*†	29.86	758.4	45	7.2		w.			6–7		3		w.	0	0	high	wnw.	hail squalls.
S. S. State of Alabama, N. 55° 15′, W 13° 11′*†	29.50	749.3	48	8.9		w.			6		8		w.	1 h'r	1 h'r	h'vy	w.	squally.
S. S. Thingvalla, N. 47° 18′, W. 50° 57′ †	30.63?	778.0?	47.3	8.5		sw.			2		1		sw.	0	0	sm'h	sw.	clear.
S. S. Romano, N. 39° 34′, W. 56° 28′			64	17.8		e.			6		8		e.	rain	rain	hv'y	e.	light haze.
S. S. Salerno, N. 47° 20′, W. 47° 12′			49	9.4		w.			2		3		wnw.	0	0	sm'h	wnw.	clear
S. S. Ontario, N. 54° 03′ W. 45° 15′	30.28	769.1	36	2.2		sw.			6		10		sw.	0	0	sm'h	var.	overcast.
S. S. Oregon, N. 55° 26′, W. 6° 54′	29.54	750.3	47	8.3		wsw.			6		8		wsw.			long	wnw.	squally.
S. S. Quebec, N. 53° 33′, W. 48° 45′			40	4.4		ssw.			5		10		ssw.	0	0	mod	sw.	overcast.
S. S. Lake Huron, N. 51° 37′, W. 56° 15′	30.10	764.5	35	1.7		wsw.			7		10		w.	0	0	high	w.	cloudy.
S. S. Lake Manitoba, N. 55° 40′, W. 7° 30′	29.60	751.8	48	8.9		w.			6		3		wnw.	1 h'r	1 h'r	high	wnw.	clear.
S. S. Daniel Steinmann, New York, N. Y †	30.31	769.9	62	16.7		sw.			1		10		s.	0	0			overcast.
S. S. Britannic, N. 43° 14′, W. 60° 50′†	30.47	773.9	50	10.0		se.			2		6		se.	0	0	mod.	se.	d. clouds.
S. S. Celtic, Liverpool, Eng	29.73	755.1	54	12.2		ssw.			5		10		sw.	8 h'r	8 h'r	sm'h		overcast.
S. S. Germanic, N. 46° 46′, W. 37° 38′*†	30.45	773.4	55	12.8		nnw.			5		5		n.	1 h'r	1 h'r	short	n.	squally.
S. S. Republic, N. 51° 20′, W. 20° 29′ *†	29.95	760.7	51	10.6		wnw.			6		5		wnw.	0	0	h'vy	nw.	squally.
S. S. Assyrian Monarch, N. 41° 31′, W. 60° 16′	30.57	776.5				ene.			6		5		e.	0	0	long	e.	fair.
Bk. Arda, N. 21° 50′, W. 45° 14′						ese.			1		3		ese.	0	0	mod.	ese.	clear.
Bk. Ariadne, N. 57° 50′, E. 9° 25′			49	9.4	78	w.			4		6		w.	0	0	mod.	wsw.	fair.
Bg. Abbie Clifford, St. Pierre Martinique†	29.97	761.2	74	23.3		calm			0		10			2 h'r	2 h'r			raining.
Schr. Arthur Burton, Charleston, S.C. †	30.29	769.4				ne.			5		2		ne.	0	0	chop	ne.	clear.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.40	772.1	62	16.7		s.			1									cloudy.
S. S. Antonio Lopez, Cadiz, Spain*	30.25	768.3	79	26.1	49	ese.			5		0			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity Miles p. hr.	Velocity Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
District No. 1—North Atlantic.—Continued.																		
Bg. Alcira, N. 26° 14′, W. 67° 36′	29.98	761.5	76	24.4		ne.			5		10		ene.	1 h'r	1 h'r	mod.	ene.	squally.
Schr. Adda Doane, Demerara, British Guiana *†	29.92	760.0				e.			1		2		e.	1 h'r	1 h'r			clear.
Bg. Belle of the Bay, N. 28° 14°, W. 91° 04′ †..	30.03	762.7				ese.			4		6		ese.	1 h'r	1 h'r	h'vy	e.	threatening.
S. S. Benledi, N. 46° 30′, W. 7° 15′*	30.07	763.8	64	17.8	92	sw.			5		9		wsw.	8 h'r	8 h'r	long	var.	rain & fog.
Bk. Ceylon, N. 4° 40′, W. 27° 30′†	29.93	760.2	82	27.8	91	ese.			1		10			1½h'r	1½h'r	long	se.	cloudy.
Schr. Clotilde, N. 23° 38′, W. 83° 46 †	29.96	761.0	82	27.8		se.			3		8		se.	0	0	long	ne.	cloudy.
Schr. C. R. Flint, N. 10° 35′, W. 60° 02′†	30.03	762.7	81	27.2		ese.			1		3		e.	0	0	long	ne	clear.
S. Carondelet, N. 36° 34′, W. 63° 30′*†	30.27	768.8				ne.			7		4		ne.	1 h'r	1 h'r	r'gh	e.	light rain.
S. S. D. J. Foley, N. 21° 16′, W. 74° 10′*†	30.00	762.0	84	28.9	83	e.			3		4		e.	2 h'r	2 h'r	short	e.	squally.
S. Dynomene, N. 5° 38′, W. 21° 30′	29.93	760.2	82	27.8	89	sw.			1		8			mod.	mod.	light	var.	d. clouds.
S. E. J. Spicer, N. 42° 04′, W. 56° 43′	30.51	774.9	55	12.8	93	ese.			5		10		ene.	0	0	mod.	ene.	cloudy.
Bk. E. D. Bigelow, Galveston, Texas†	29.96	761.0	84	28.9		s.			2		3		s.	0	0			fine.
S. Festina Lente, N. 55° 26′, W. 13° 56′	29.56	750.8	47	8.3		wsw.			6		4		wsw.	1 h'r	1 h'r	long	wsw.	squally.
U. S. Fish. Com. S. S. Fish Hawk, Huntington Bay, N. Y.†	30.44	773.2	58	14.4	88	s			2		10		calm	0	0	mod.	se.	cloudy.
Bg. George, N. 40° 35′, W. 72° 45′ *†	30.40	772.1	59	15.0		sse.			2		10			0	0	mod.	se.	cloudy.
Bk. Galeon, N. 23° 14′, W. 63° 00′†	30.05	763.3	82	27.8		e.			1		4			light	light		nnw.	blue sky.
Bk. Hattie G. McFarland, N. 25° 16′, W. 64° 39′†	30.05	763.3	76	24.4		ene.			5		5		e.	13 h'r	13 h'r	rg'h	ne.	rainy.
S Hedwig, N. 29° 24′, W. 72° 19′	30.19	766.9	74.7	23.7	84	nne.			6		4		nne.	0	0	3	nne.	fine.
Bk. Heinrich & Tonio, N. 46° 20′, W. 17° 55′ †	30.15	765.8	59	15.0		nw.			2		10			14 h'r	14 h'r	high	var.	rainy.
Schr. Jennie N. Huddell, Smithville, N. C.†	30.33	770.4	63	17.2	100	ne.			1		2		e.	0	0			clear.
Bk. John H. Pearson, N. 24° 39′, W. 22° 06′						ne.			4				ene.	0	0	long	ne.	clear.
Schr. John Bracewell, N. 41° 39′, W. 69° 53′†	30.40	772.1				sse.			3		9		wsw.	0	0	long	e.	cloudy.
Bg. Josefa, Little Glace Bay, N. S.†	30.53	775.4				wsw.			2		1		w.	0	0		s.	clear.
Bkt. John Baizley, N. 40° 30′, W. 72° 45′*†	30.43	772.9				s.			2		10		ssw.	0	0	long	se.	cloudy.
Bg. Lilian, N. 36° 24′, W. 75° 16′ †..	30.39	771.9	65	18.3		ne.			2		8		ese.	½h'r	½h'r	mod.	e.	cloudy
Bg. L. & W. Armstrong, N. 38° 14′, W. 73° 26′*†	30.36	771.1				calm			0		0			0	0	sm'h	e.	clear.
S. S. Madrid, N. 36° 14′, E. 15° 05′ †	30.20	767.1	70	21.1	90	nw.			3		0			0	0	sm'h	nw.	fair.
Bk. Matilda C. Smith, off Isle of Wight, Eng.*†	29.88	758.9				s.			7		10		s.	6 h'r	6 h'r	r'gh	wsw.	stormy.
Bk. Matthias, N. 40° 50′, W. 41° 12′ *†	30.28	769.1	65.0	18.3		ne.			7-9		10		ne.	6 h'r	6 h'r	6	ne.	squally.
Schr. Norena, N. 26° 30′, W. 62° 45′ *†	30.10	764.5				ese.			2		9		e.	10 h'r	10 h'r	mod	n.	squally.
Bk. National Eagle, N. 39° 01′, E. 10° 40′						nw.			5		8		nw.	0	0	sm'h		cloudy.
Schr. Rollin Sanford, Pensacola, Fla.†	30.16	766.1				ne.			6		8		se.	0	0			fair.
Bg. Rising Sun, Barbadoes, W. I.†	29.92	760.0	84	28.9		e.			1		5			light	light			squally.
Bk. Rosalie, N. 6° 48′, W. 26° 05′*†	29.93	760.2				calm			0		0			4 h'r	4 h'r	mod.		clear.
Bk. Saga, N. 54° 34′, E. 5° 42′ *†	29.34	745.2	53	11.7		w.			9-10		7		w.	7 h'r	7 h'r	r'gh	w.	fair.
S. Salisbury, N. 36° 00′, W. 3° 05′	30.26	768.6	73.9	23.3	80	e.			2-3	2 c	0	e.		0	0	mod.		clear.
Bgt. Sunlight, N. 32° 50′, W. 62° 15′ †.	30.02	762.5				n.			5		10		nne.	12 h'r	12 h'r	r'gh	ne.	cloudy.
Bk. Samuel B. Hale, N. 25° 05′, W. 32° 50′*†	30.20	767.1				ese.			5				ese.	0	0	short	e.	hazy.
Bk. Sunbeam, Rotterdam, Holland †	29.84	757.9	53	11.7	100	sw.			4		10		wsw.	2 h'r	2 h'r			light rain.
S. St. Francis, N. 34° 27′, W. 41° 00′ *†	30.30	769.6	76	24.4		s.			2		2		s.	½h'r	½h'r	long	s.	fair.
Bk. Southern Belle, N. 32° —′, W. 17° 00′ †	30.15	765.8	67	19.4		ene.			5		8			0	0	r'gh	ene.	
Schr. Walter L. Plummer, N. 23° 55′, W. 45° 53′*†	30.10	764.5				se.			3		5		se.			sm'h	ese.	fair.
Bk. Pilgrim, N. 0° 13′, W. 31° 45′*†	30.00	762.0				ese.			3		3		ese.	0	0	mod.	ese.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.82	757.4	61.5	16.4	88	nnw.			2		6	sw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.04	763.0	67	19.4	95	sse.			2		3	se.						blue sky.
H. M. S. Orontes, S. 3° 02′, W. 0° 28′	29.93	760.2	75	23.9	88	s.			4		3	ssw.				3	s.	blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	29.89	759.2	61.2	16.2	88	n			1		10							overcast.
H. P. M. S. Rainha de Portugal, Banana, Guinea	29.93	760.1	77.5	25.3	82	sw.			3		8		sw.	0	0	1		overcast.
U. S. S. Brooklyn, S. 33° 51′, W. 14° 38′*	30.07	763.8	60	15.6	88	se.	9	4.0			10		se.	0.09	2.3	mod.	se.	cloudy.
U. S. S. Nipsic, Montevideo, Uruguay *	29.88	758.9	62	16.7	89	nnw.			1		8		nnw.			sm'h		fair
S. S. Sirius, S. 5° 29′, W. 34° 11′	29.94	760.5				e.			3		0			0	0	mod.	e.	clear.
Bk. Alpheus Marshall, S. 14° 20′, W. 23° 46′*†	29.96	761.0	73	22.8	95	ese.			3		10		se.	1 h'r	1 h'r	mod.	se.	threatening.
Bk. Bore, S. 33° 17′, E. 15° 10′ *†	30.53	775.4	68	20.0		sse.			4		3		s.	0	0	sm'h	s.	clear.
S. David Crockett, S. 22° 47′, W. 24° 40′*	30.10	764.4	70.5	21.4	52	ese.			2		7			0	0	sm'h	s.	d clouds.
Bk. E. L. Pettingill, S. 57° 29′, W. 66° 03′*†	29.50	749.3	39	3.9		wsw.			3		9		wsw.	snow	snow	r'gh	wsw.	cloudy.
Bg. John Wesley, Natal, Brazil.*†	29.84	757.9	83	28.3		ne.			4		2		ene.	0	0			clear.
Bkt. Louise Adelaide, off Montevideo, Uruguay†	30.02	762.5				calm			0		hz.		w.	2 h'r	2 h'r			fair.
S. S. Mendoza, S. 4° 23′, W. 34° 54′ †	30.00	762.0				ene.			2		5		ene.	0	0	sm'h	se.	
Bgt. Willie, Montevideo, Uruguay*†	29.82	757.4	68	20.0		n.			2		6		nw.	3 h'r	3 h'r	sm'h		fair.
Bk. Childwall, S. 29° 46′, W. 30° 36′*	30.09	764.3	72	22.2		e.			4		8		e.	0	0	sm'h		cloudy.
Bk. Achille F, S. 8° 30′, W. 33° 45′ †	29.99	761.7	82	27.8		e.			3		4		ene.	0	0	light	ssw.	fine.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.29	769.4	65	18.3	89	calm			0		10	ne.						misty.
H. M. S. Champion, Singapore, Malay Peninsula	29.92	760.0	83	28.3	83	nnw.			1		7							d. clouds.
H. M. S. Flying Fish, N. 32° 45′, E. 129° 52′	30.11	764.8	75	23.9	37	s.			2		8	s.				2	s.	d. clouds.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.09	764.3	77	25.0		calm			0		5	ne.						d. clouds.
H. P. M. S. Tamega, Macao, China	30.02	762.4	81.5	27.5	87	e.			4		6			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.38	771.6	62.5	16.9	86	calm			0		10		w.	0	0			foggy.
U. S. S. Essex, Nagasaki, Japan	30.12	765.0	77	25.0	82	ssw.			2		8		ssw.					cloudy.
U. S. S. Hartford, La Union, San Salvador*	29.82	757.4	78	25.6	91	var.			0-1		2		n.			sm'h		clear.
U. S. S. Juniata, Canton, China	30.03	762.7	81	27.2	96	sse.			1		10?			0	0			clear.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.00	762.0	62	16.7	88	n.			2		10		nne.					cloudy.
U. S. S. Pensacola, Yokohama, Japan			66	18.9	84	nnw.			1		8			0	0			cloudy
U. S. S. Ranger, Mare Island, Cal.	30.06	763.5	55	12.8	80	calm			0		2			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.35	770.9	64	17.8	89	nw.			1		8		n.	0	0			hazy.
S. S. City of Chester, Hookton, Cal.†	30.09	764.3	47	8.3		nw.			4									overcast.
S. S. Oregon, N. 40° 16′, W. 124° 19′†	30.12	765.0	52	11.1	86	n.			4							sm'h		clear.
S. S. Ancon, Point Fermin, Cal.†	30.00	762.0	60	15.6	81	nne.			2		5		nw.	0	0			hazy
S. S. Dakota, Seattle, Wash. Ter.			50	10.0		baff.			1		4		s.	0	0	mod.	s.	hazy.
S. S. State of California, N. 42° 40′, W. 124° 35′ †	30.11	764.8	47	8.3	94	n.			2		0							clear.
S. S. City of Pekin, Yokohama, Japan†	30.30	771.1	62	16.7	95	ne.			1		10		ne.	0	0			misty.
S. S. City of Sydney, N. 9° 00′, W. 162° 30′*†	29.89	759.2	79	26.1	78	ne.			4		2		ne.			light	ne.	clear.
S. S. City of Tokio, N. 38° 59′, W. 137° 12′			63	17.2	83	se.			5		10		se.	4 h'r	4 h'r	small	se.	overcast.
S. S. Colima, N. 12° 10′, W. 88° 00′ †	29.92	760.0	79	26.1	90	wnw.			3		8		sw.	0	0	mod	wnw.	cloudy.
S. S. Granada, N. 36° 52′, W. 122° 16′†	29.98	761.5	54	12.2	88	wnw.			2		0			0	0	mod.	wnw.	clear.
S. S. San Blas, N. 15° 28′, W. 93° 28′†	29.87	758.7	75	23.9		calm			0		7		ssw.	sh'rs	sh'rs	long	sw.	fair.
S. S. San Juan, N. 24° 55′, W. 112° 52′			71	21.7		nne.			3	1 c		nne.		0	0	long	nw.	clear.
S. S. Alameda, N. 28° 43′, W. 141° 29′†	30.15	765.8	68	20.0		ne.			2		3		se.	0	0	light	ne.	fine.
S. Parker M. Whitmore, N. 26° 15′, W. 124° 15′ *†	30.05	763.3	65	18.3		n.			3		8		n	0	0	sm'h		cloudy.
S. S. Strathleven, N. 23° 28′, E. 117° 44′	30.06	763.5	76.8	24.9	91	ene.			3		0			0	0	2	ssw.	blue sky.
S. Sovereign of the Seas, N. 2° 33′, W. 117° 14′*†	30.06	763.5	77	25.0	91	sse.			4		4		se.	0	0	mod.	sse.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 52′, E. 156° 08′	29.90	759.4	76.3	24.6	91	wsw.			4		10					sm'h		thud'r storm.
H. M. S. Magpie, S. 3° 44′, E. 100° 14′	29.89	759.2	83.4	28.6	71	ese.			2		9					3	s.	d clouds.
H. M. S. Nelson, Sydney, N. S. W	29.82	757.4	60	15.6	94	n.			1		10							raining.
U. S. S. Iroquois, Callao, Peru	30.09	764.3	62	16.7	94	sse.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili *	30.05	763.3	59	13.3	75	calm			0		10							overcast.
U. S. S. Onward, Callao, Peru*†	30.14	765.5	62	16.7	83	sse.			2		10		sse.			mod.	w.	cloudy.
U. S. S. Wachusetts, Coquimbo, Chili *	30.08	764.0	59	15.0	59	calm			0		10					sm'h		overcast.
S. S. Australia, Sydney, N. S. W	30.01	762.2	65	18.3	94	ese.			2		10		ese.	9 h'r	9 h'r			cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. S. City of New York, S. 34° 13′, E. 159° 19′†	30.23	767.8	56	13.3	81	s.			2		5?		s.	4 h'r	4 h'r	mod.	sw.	cloudy.?
S. E. B. Sutton, S. 11° 30′, W. 128° 50′ *†	29.96	761.0	77	25.0	91	e.			4		2			0	0	light	se.	clear.
S. Armenia, S. 43° 40′ W. 114° 40′ *	29.56	750.8	53	11.7	86	w.			6		6		w.	3 h'r	3 h'r	r'gh	w.	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.01	762.2	66	18.9		se.			5		10		se			long	se.	overcast.
S. Storm King, S. 17° 40′, W. 125° 15′*†	30.10	764.5				ese.			4		2		ese.	½ h'r	½ h'r	long	sw.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.89	759.2	79	26.1	82	ene.			1		3	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	79	26.1	95	calm			0		1	sse.						blue sky.
H. M. S. Woodlark, N. 29° 10′, E. 50° 30′	30.01	762.2	87.5	30.8	76	ese.			1		1							misty.
S. Frank N. Thayer, S. 35° 25′, E. 22° 05′*†	30.03	762.7	67.5	19.7	82	s.			4	10 c		s.		0	0	mod.	e.	overcast.
Bk. Great Surgeon, S. 30° 33′, E. 98° 46′*†	30.34	770.6	59	15.0		ese.			2		9		ese.	0	0	long	sw.	cloudy.
Bk. Mohican, S. 41° 05′, E 20° 20′	29.86	758.4	58	14.4		wnw.			3		10		nw.	0	0	long	wsw.	cloudy.
S. S. Radnorshire, Suez Canal, Egypt						nw.			3		2		nw	0	0	r'gh	nnw.	fine.
S. S. Galatia, N. 11° 14′, E. 59° 16′†	29.72	754.9	79	26.1	95	ssw.			6		8		sw.	3 h'r	3 h'r	r'gh	sw.	stormy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 20, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.20	767.0	69.4	20.8	80	e.			1		0			0	0	clear	Roziere.
Algiers			30.23	767.8	74.5	23.6	58	n.			1		0			inap.	inap.	clear	Thève.
La Calle			30.24	768.0	71.6	22.0	74	ene.			4		1			0	0	very fair	Fonfrède.
Tunis			30.27	768.9	70.9	21.6	66	w.			3		0			c	0	clear	Delord.
Saida			30.28	769.2															Pérès.
Tebessa			30.26	768.5	68.0	20.0	81	ne.			4		4			0	0	cloudy	St. Martin.
Geriville					69.8	21.0	14	se.			4		1			0	0	very fair	Forfert.
Laghouat			30.27	768.8	79.2	26.2	45	n.			1		2			0.047	1.2	fair	Abraham.
Biskra			30.27	768.9	79.9	26.6	35	se.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.88	758.9	55.6	13.1	87	wsw.	5	2.2			10 k; n					thund'r st'm	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.73	755.1	29.82	757.4	67.2	19.6	87	nw.	15	6.7			10			0.13	3.3	thnd'r&l'tng	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.34	745.2	29.87	758.8	66.4	19.1	52	sw.			5		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.98	736 1	29.74	755.4	54.3	12.4	69	w.	15.4	6.9			10			0	0		Dr. Wierzbiski
Eperies	28.98	736.1	29.86	758.4	51.4	10.8	70	se.			2		10 ks		e.	0	0		Julius Mikolik.
Gratz	28.65	727.8	29.89	759.1	60.1	15.6	61	w.			1		3			0	0		Andreas Rospini.
Hermannstadt	28.58	725.9	30.01	762.2	56.1	13.4	61	w.			1		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	26.49	723.6	29.80	756.9	60.4	15.8	66	wnw.			1		3			0	0	fair	The Staff.
Lemberg	28 79	731.2	29.77	756.2	50.5	10.3	61	sw.			5		10			0	0		Dr. T. Stanecki.
Pola	29.90	759.4	30.01	762.2	67.1	19.5	92	ssw.			2		5			0	0		I. R.Hydrographic Office.
Szathmar	29.46	748.2	29.93	760.1	50.5	10.3	79	se.			2		8			0.024	0.6		Joseph Midlinsky, S. J
Szegedin	29.66	753 4	29.94	760.4	63.7	17.6	63	s.			3		4			0	0		Karl Stancel.
Trieste	29.95	760.6	30.04	763.1	65.3	18.5	71	w.			1		10			0	0		Royal Academy.
Vienna	29.15	740.5	29.86	758.5	57.2	14.0	80	s.			1		8			0.146	3.7		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.26	743.2	29.35	745.5	49.0	9.4	64	wnw.	21	9.4			7			0.110	2.8	d. clouds	W. Boswell.
Armagh, Observatory	29.37	746.0	29.61	752.1	45.2	7.3	82	sw.	12	5.4			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.61	752.1	49.1	9.5	67	wsw.	35	15.6			4					d. clouds	John Hartnup.
Bolton, Sharples	29.06	738.1	29.59	751.6	46.9	8.3	77	wsw.	30	14.3			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.17	740.9	29.56	750.8	44.8	7.1	78	sw.			4		4			0.10	2.5	raining	McLandsborough&Preston.
Cardington	29.59	751.6	29.70	754.4	50.6	10.3	71	w.			2.0		2					blue sky	John McLaren.
Chatham, School M. E.	29.58	751.3	29.75	755.6	49.1	9 5	65	s.			1		9			blank	blank	misty	Corpl. G. A.Pickles,R.E.
Falmouth, Observatory	29.55	751.6	29.82	757.4	50.6	10.3	74	w.			1		7					d. clouds	The Staff.
Fort Napier, Natal	27.40	697.5	29.68	753.9	78.2	25.7	21	ne.			2		4					blue sky	C. Stares, A.H.O.
Freetown, Sierra Leone	29.70	754.4	29.93	760.2	86	30.0	76	w.			5		5					d. clouds	J. W. Smith.
Galway, Queen's College	29.63	752.6	29.67	753.6	49	9.4	78	w.			3		6			0.18	4.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.12	765.0	79.0	26.1	51	ne.			3		0					blue sky	Sgt. F. Norris, A. H.O.
Glasgow, Observatory	29.26	743.2	29.46	748.3	49.2	9.6	72	wnw.			3		7 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.56	750.8	29.73	755.1	49.5	9.7	72	wsw.			4		8					d. clouds	The Staff.
Guernsey	29.49	749.0	29.79	756.7	49.0	9.4	82	wnw.			1		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.69	754.1	29.73	755.1	50.6	10.3	52	w.	11	4.9			10					overcast	The Staff.
Leicester, Museum	29.39	746.5	29.04	752.8	49.0	9.4	60	w.			2		3					d. clouds	J. C. Smith.
Malta, Mediterranean	30.03	762.7	30.11	764.8	74.2	23.4	63	nw.			2					0	0	blue sky	Corpl. Keene, A. H. O.
Nassau, Bahamas	29.97	761.2	30.02	762.5	77.5	25.3	63	e.			3		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.14	740.1	29.66	753.4	48.7	9.3	83	wsw.			5		6					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.49	749.0	29.72	754.9	49.1	9.5	64	wsw.			4		5					d. clouds	The Staff.
Plymouth	29.71	754.6	29.79	756.7	49.9	9.9	82	w.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.20	741.2	29.30	744.2	46	7.8	96						5					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.06	763.5	30.13	765.3	61.6	16.4	78	ssw.			1		1			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.32	744.7	29.61	752.1	44.5	6.9	98	sw.			1		8			0.17	4.3	overcast	W. F. Cooper.
Silloth Rectory	29.49	749.0	29.52	749.8	46.2	7.9	74	w.			4		7			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.58	751.3	45.0	7.2	80	w.	21	9.4			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					50.4	10.2	65	sw.			0.8		8					d. clouds	Rev.C.H.Griffiths,F.M.S
Truro, Royal Institution	29.76	755.9	29.82	757.4	54	12.2	67	w.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.74	755 4	29.76	755.9	51.4	10.8	57	w.	16	7.2			4			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.80	756.9	30.20	767.1	70.9	21.6	65	w.	10.3	4.6		0	0			0	0	clear	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.15	765.8	30.19	766.8	53.0	11.7		w.	8	3.6		10 cs	0	nw.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30.23	767.8	49	9.4	82	s.	14	6.3			10 s		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.09	764.3	30.15	765.8	50	10.0	86	sw.	8	3.6			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.94	760.5	30.14	765.5	43.7	6.5	82	n.			3		10 s			0.162	4.1	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.03	762.7	30.08	764.0	44.0	6.7		calm			0		10 n					raining	H A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	29.99	761.7	30.02	762.5	43	6.1	93	wsw.	12	5.4			10 n		w.	0.20	5.1	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.77	756.1	30.69	779.5	14	—10.0	100	s.	2	0.9			10 n			0	0	hazy	James Stewart.
Fredericton, N. B	30.10	764.5	30.17	766.3	50.5	10.3	83	s.	3	1.3			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B	30.14	765.5	30.19	766.8	51	10.6	80	sw.	15	6.7			10 s		sw.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	29.23	742.4	30.38	771.6	34.0	1.1	79	n.	5	2.2		0	2 ks			0.09	2.3	blue sky	Jas. Grant.
Halifax, N. S*	30.15	765.8	30.28	769.1	47	8.3	92	s.	1	0.4		5 c	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.96	761.0	30.36	771.1	39.7	4.3	89	nw.			2	10 cs	0	nw.		0	c	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.91	759.7	30.25	768.3	41	5.0	73	n.	11	4.9		8 ck	0	w.		0.27	6.9	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	30.26	768.6	30.30	769.6	54.6	12.6	76	w.			3	5 ck	0	w.		0	0		C. H. Rigby.
London, Ontario	29.44	747.8	30.38	771.6	37.2	2.9	77	n.			2	0	1 ks			0.130	3.3	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.91	708.9	30.29	769.4	31	— 0.6	92	calm	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.51	724.1	30.59	777.0	14	—10.0	96	s.	1	0.4		0	5 s			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.92	760 0	30.13	765.3	51	10.6	86	n.	10	4.5			10 n			0.28	7.1	light rain	C. H. McLeod, C. E.
Ottawa, Ontario	30.01	762 2	30.24	768.1	37.4	3.0	81	n.				0	2 s			0.420	10.7	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.70	754.4	30.43	772.9	29	— 1.7	77	n.	17	7.6		5 k	5 ks	n.	n	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.55	750.0	30.32	770.1	37.7	3.2	80	n.			2	0	3 k			0.40	10.2	blue sky	Wm. O'Connor,M.A.
Port Arthur	30.04	763.0	30.82	782.8	18	— 7.8	91	nw.	5	2.2			10 s			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.62	752.3	30.34	770 0	38	3.3	100	n.	11	4.9		0	0			0.18	4.6	clear	R. Morgan
Port Stanley, Ontario	29.67	753.6	30.34	770.6	38	3.3	90	n.	4	1.8			8 k		n.	0.05	1.3	cloudy	M. Payne.
Qu Appelle, N. W. T	28.02	711.7	30.40	772.1	20	— 3.3	96	s.	14	6.3			10 s		s.	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.69	754.1	30.04	763.0	51	10.6	96	sw.	8	3.6			10 ks			0.23	5.8	clearing	Capt. Asne, R. N.
Rockliffe, Ontario*	29.92	760.0	30.41	772.4	31	— 0.6	88	n.	20	8.9			10 s		n.	0	0	cloudy	W H McIntyre.
St. Andrews, N. B	30.11	764.8	30.16	766.1	51	10 6	92	sw.	8	3.6			10 n			0	0	cloudy	
St. John, N. B	30.08	764.0	30.22	767.6	48.8	9.3	88	s.	12	5.4			10 n			0.351	8.9	overcast	G. Hutchinson.
Saint John's, N. F	30.23	767.8	30.48	774.2	47	8.3	92	s.			2		10 s			1.48	37.6	cloudy	J. Higgins.
St. Pierre, N. F			30.32	770.0	53.6	12.0		s			4					0.866	22.0		The Commandant.
Saugeen, Ontario*	29.67	753.6	30.43	772 9	33	0.6	88	n.	16	7.2			10 s			0	0	cloudy	
Stratford, Ontario	29.08	738.6	30.43	772.9	33.0	0.6	80	n.	11.0	4.9			10 s			0.140	3.6	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Canadian.—Continued.																			
S. W. Point, Anticosti	30.00	762.0	30.03	762.7	43	6.1	93	se.			4		10 n			0.10	2.5	cloudy	
Sydney, C. B.	30.25	768.3	30.32	770.1	44	6.7	93	se.	1	0.4		0	5 ks		s.	0	0	fair	Miss Grace Pope.
Toronto, Ontario*	29.96	761.0	30.36	771.1	37	2.8	72	n.	15	6.7			10 ks		n.	0.06	1.5	cloudy	A. C. Hill, C. E.
Woodstock, Ontario	29.28	743.7	30.39	771.9	34.4	1.3	81	n.	18	8.0		5 k	0	ne.		0.16	4.1	drizzling	Magnetic Observatory.
Yarmouth, N. S*	30.17	766.3	30.24	768.1	50	10.0	93	se.	1	0.4			10 ks			0	0	cloudy	Prof. N Wolverton, M.A.
Cape Colony.																			Lt. F. E. Wilmot, R. N.
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	66.0	18.9	89	sw.	13.0	5.8		0	7 ks			0.020	0.5	fine	
Cape Town	29.77	756.1			73.8	23.2	55	se.					1 k			0	0		I. Garfelt.
Springbok Fontein	27.88	708.1			74	23.3	38									0	0		J. T. Eustace
Chilian.																			
Coquimbo	30.03	762.8	30.11	764.8	55.4	13.0	84	e.			1	0						clear	Samuel Redolez.
Iquique	29.99	761.8	30.02	762.5	61.7	16.5	65	sw.			3							cloudy	Rafael Moreno.
Niebla	29.82	757.5	29.93	760.2	44.6	7.0	94	e.			1	0	3 n		s.	0	0		Federico Köhling.
Punta Caldera	29.98	761.5	30.07	763.7	55.8	13.2	77	ne.			1	0	7 n		ne.			fair	Manuel Tobar.
Punta Corona	30.12	765.0	30.31	769.8				s.			2	0	6 s		e.	0	0	cloudy	Francisco Alvarado.
Valparaiso	29.97	761.2	30.06	763.4	57.0	13.9	90	se.			1	10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.37	644.5																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.13	765.4	30.16	766.0	66.7	19.3	89	ne.	4.9	2.2			10			0.449	11.4	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.32	744.8	29.37	746.0	47.5	8.6	66	w.	16	7			3						Oversergent Fischer.
Fanoe	29.32	744.7	29.34	745.2	48.4	9.1	71	w.			6		9						Overloerer Lauridsen.
Godthaab, Greenland	29.69	754.1	29.73	755.2	32.4	0.2	83	sw.			4		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.30	744.2	29.35	745.4	30.9	— 0.6		sw.			4		9					snowing	
Stykkisholm, Iceland	29.84	757.8	29.88	758.9	32.7	0.4	83	e.			4		2						A. O. Thorlacius.
Thorshavn	29.47	748.4	29.49	749.0	42.1	5.6	83	n.	20	9			7						Overloerer Bergh.
Vestervig	29.15	740.3	29.24	742.6	44.1	6.7	84	wsw.			6		10					raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.86	758.4			76.5	24.7		n.	2.5	1.1			8 k			inap.	inap.		Albert Ismalun.
French.																			
Agen, Normal School	29.40	746.7	30.05	763.2	57.6	14.2	95	s.			1		n	nw.	nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.32	744.7	29.87	758.7	52.2	11.2	89	w.			1				e.	0.04	1.		M. Nicot, Director.
Avignon, Normal School	29.93	760.1	30.00	762.1	69.1	20.6	54	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.30	744.2	29.85	758.3	53.2	11.8	93	ese.			1		10			0.520	13.2	raining	M. Saillard, Director.
Beauvais, Normal School	29.56	750.9	29.83	757.6	51.3	10.7	82	wnw.			1		10		wnw.	0.059	1.5	covered	M. Frère Eugène Mariè.
Besançon, Normal School	29.03	737.3	29.92	759.9	62.6	17	84	sw.			4		10		n.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.69	754.1	29.95	760.7	59.2	15.1	98	sw.			1		10			0.016	0.4	light rain	M. Rayet, Director.
Bourges, Normal School	29.30	744.1	29.84	757.9	62.6	17	70	wsw.			4		k		wsw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.69	754.2	29.94	760.4	47.8	8.8	86	nw.			1		10		nw.	0.071	1.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.69	754.2	29.76	756.0	52.2	11.2	85	sw.			1					0.166	2.7		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.46	748.3	29.78	756.4	53.8	12.1	87	sw.			1		8		w.	0.323	8.2	very cloudy	M. Allard, Director.
Charleville, Normal School	29.27	743.5	29.78	756.5	50.2	10.1	84	ssw.			1		10			0.256	6.5	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.51	724.1	29.82	757.5	66.9	19.4	50	sse.			2		8		sw.	0	0		M. Allard, Director.
Cluny, Normal School	29.07	738.4	29.91	759.6	64.4	18	60	s.			2				e.	0	0		M. de Villemontée, Dir.
Cominercy, Normal School	28.97	735.9	29.82	757.5	51.6	10.9	86	w.			1		10			0.35	9.	light rain	Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	29.99	761.7	63.7	17.6	37	calm			0		1		ne.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.86	733.0	29.94	760.5	73.8	23.2	31	s.			2		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.25	743.0	30.01	762.2	62.6	17	61	ne.			1	ck		nw.		0	0		M. Ablard, Directoor.
Guéret, Normal School	28.33	719.5	29.89	759.1	56.8	13.8	89	ssw.			4		10 n		sw.	0.189	4.8	light rain	M. Delorme, Dir.
Lamballe, Normal School	29.55	750.5	29.82	757.5	49.6	9.8	97	s.			4		10		s.	0.12	3.	covered	M. Ollitrault, Directo
Lescar, Normal School	29.76	756.0	30.32	770.0	69.8	21.0	68	sw.			1		0			0	0	clear	M. Chanvin, Director.
Lorient, Naval Observatory	29.76	756.0	29.87	758.6	49.3	9.6	84	nnw.			1		10		calm	0.449	11.4	raining	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.90	734.1	29.94	760.5	64.4	18	55	s.			1		0			0	0	clear	M. André, Director
Mans, Normal School	29.53	750.0	29.84	757.9	54.7	12.6	95	wsw.			1		10		wsw.	0.189	4.8	raining	M. Richard, Director.
Marseille, Observatory	29.75	755.7	30.02	762.5	69.8	21.0	73	w.			1		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.88	631.9	29.72	754.9	59.0	15.0	41	w.	16.8	7.5			4		nw.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.86	758.4	29.97	761.3	69.1	20.6	81	ese.			4		0			0	0	clear	Chizin, Director.
Nancy	29.10	739.0	29.88	759.0	49.3	9.6	97	sw.			1		n			0.240	6.1		M. Hasse, Director.
Nantes, Observatory	29.68	753.8	29.84	757.9	52.0	11.1	98	nne.			1		10			0.291	7.4	light rain	M. Larocque, Director.
Perpignan, Observatory	29.88	759.0	29.99	761.8	62.1	16.7	96	se.	9.4	4.2			10		ne	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.6			42.8	6.0		w.			1		1		w.	0	0	clear	M. Vausseunt, Director.
Privas, Normal School	28.97	735.7	30.01	762.2	66.6	19.2	68	n.			1		1		n.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.08	637.1			45.0	7.2	100	wsw.			8		10			0.118	3.0	foggy	M. Allard.
Rochefort, Naval Obs'y	29.85	758.2	29.88	759.0	64.0	17.8	80	sw.			6		8	sw.	wsw.	0.146	3.7	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.60	751.9	29.82	757.4	61.7	16.5	89	s.			6		10		sw.	0	0	covered	M. Brouier, Director.
Rodez, Normal School	27.91	708.8	30.04	763.0	56.1	13.4	91	nw.					10 n		se.	0.890	22.6	raining	M. Seger, Director.
Rouen, Normal School	29.76	755.9	29.81	757.1	52.5	11.4	85	nw.			1		10		n.	0.189	4.8	covered	M. Moullot, Dir.
St Lô	29.59	754.2	29.84	757.9	49.6	9.8	98	sw.			1		1		sw.	0.488	12.4	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	29.67	753.5	29.83	757.7	51.6	10.9	80	nw.			1		10		sw.	0.169	4.3	covered	M. Renou, Director.
Toulouse, Observatory	29.26	743.2	29.98	761.6	73.0	22.8	62	se.			1		1	w.		0	0	clear	M. Baillaud, Director.
Tours	29.65	753.1	29.83	757.6	57.2	14.0	91	nw.			2		10		sw.	0.335	8.5	raining	M. de Tastes.
Versailles, Observatory	29.33	745.0	29.82	757.5	51.4	10.8	75	nw.			1		10			0.717	18.2	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.87	758.7	30.02	762.5	61.3	16.3	87	nw.	7.8	3.5			10 k		w.	0	0	covered	M. Cartier, Director.
German.																			
Ansbach	28.39	721.2	29.85	758.3	47.8	8.8	95	w.			2		10	w.		0.283	7.2		Prof. Jnedt.
Bamberg	28.97	735.7	29.80	756.9	49.1	9.5	88	calm			0		10 n			0.413	10.5	raining	Prof. Dr. Hoh.
Berlin	29.51	749.6	29.65	753.2	51.6	10.9	74	w.			2		9			0.319	8.1		Dr. Lensch.
Breslau	29.21	742.0	29.74	755.3	49.8	9.9	79	wnw.			3		10			0	0		Royal University Obs'y.
Carlsruhe	29.38	746.2	29.85	758.1	50.4	10.2	98	sw.			1		10	sw.		2.008	51.0	raining	Albert Senz.
Cassel	28.99	736.3	29.70	754.4	52.2	11.2	72	w.			5		10	sw.		0.469	11.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.41	746.9	29.77	756.2	52.0	11.1	89	sw.			1		10			0.335	8.5		Physical Society.
Friedrichshafen	28.44	722.4	29.82	757.5	62.6	17.0	60	sse.			6		2	sw.		0.799	20.3		Wilhelm, Chief Tel.
Hamburg	29.48	748.7	29.57	751.0	48.6	9.2	76	sw.			6		10	w.		0.732	18.6		E. Prefer.
Kiel	29.46	748.3	29.48	748.7	47.1	8.4	82	wsw.			2		8			0.354	9.0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.30	744.3	29.72	754.9	52.5	11.4	78	wsw.			3		10	w.				raining	H. Leppig, Asst.
Magdeburg	29.47	748.5	29.66	753.3	51.8	11.0	74	wsw.			4		10	w.		0.122	3.1		Weather Observatory.
Memel	29.43	747.5	29.47	748.6	46.6	8.1	68	s.			5		10 s					raining	Issermann.
Munich	28.01	711.4	29.86	758.4	62.8	17.1	47	nw.			8		3	w.		0.039	1.0		Central Station.
Neufahrwasser	29.37	745.9	29.38	746.3	48.7	9.3	72	sw.			5		5			0.118	3.0		A. Lothes.
Neustadt, Palatinate	29.26	743.2	29.78	756.5	52.9	11.6	87	w.			1		10					raining	Dicknether.
Stuttgart	28.85	732.9	29.74	755.5	53.2	11.8	94	nw.			1		10			0.217	5.5		Prof. Dr. Schoder.
Wustrow	29.44	747.7	29.46	748.4	46.9	8.3	66	sw.			6		10 s			0.705	17.9		Profs. Brandes & Reimer.
Greek.																			
Athens	29.78	756.4	30.16	766.0	71.8	22.1		s.			0.5		8 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.84	758.0	29.90	759.3	85.9	29.9	68	sw.	17.0	7.6			0			0	0	blue sky	
Deesa	29.38	746.1	29.84	758.0	87.4	30.8	31	nne.	10.0	4.5			0			0	0	blue sky	
Bombay	29.85	758.2	29.89	759.2	78.2	25.7	91	ssw.	16.0	7.2			10		ssw.	1.62	41.1	overcast	
Poona, Yarrowda	28.05	712.4	29.93	760.1	72.5	22.5	76	sw.	14.0	6.3			10			0.07	1.8	overcast	
Trichinopoly	29.04	752.9	29.92	760.0	81.1	27.3	71	e.	0.2	0.1			10			0	0	overcast	
Bellary	28.40	721.4	29.87	758.7	80.0	26.7	75	nw.					8			0	0	gloomy	
Belgaum	27.37	695.2	29.93	760.1	73.4	23.0	77	wsw.	4.0	1.8			6	w.	s.	0.01	0.3	d. clouds	
Lahore	29.17	740.9	29.92	759.8	79.1	26.2	47	e.	4.0	1.8			0			0	0	misty	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	29.03	737.2	29.93	760.3	76.8	24.9	55	calm	0	0			8	w.		0	0	overcast	
Agra	29.38	746.3	29.95	760.7	82.7	28.2	46	se.	2.0	0.9			5		se.	0	0	d. clouds	
Nagpur	28.86	733.0	29.92	759.9	73.2	22.9	91	se.	2.0	0.9			9		e.	4.91	124.7	gloomy	
Jubbulpore	28.56	725.3	29.94	760.4	70.9	21.6	88	s.	2.0	0.9			10		se.	0.42	10.7	overcast	
Lucknow	29.59	751.7	29.97	761.3	80.2	26.8	46	ssw.	3.0	1.3			5			0	0	d. clouds	
Allahabad	29.68	754.0	30.01	762.2	64.8	18.2	94	se.	2.0	0.9			10			0.47	11.9	raining	
Patna	29.83	757.6	30.02	762.5	69.3	20.7	82	wnw.	3.2	1.4			10	wnw.	wnw.	0.12	3.0	drizzling	
Hazaribagh	27.95	709.8	30.01	762.3	65.6	18.7	82	nne.	7.7	3.4			10		nne.	0.01	0.3	drizzling	
Cuttack	29.86	758.6	29.95	760.7	78.0	25.6	90	e.	3.0	1.3			9			0.37	9.4	d. clouds	
Calcutta, Alipore	29.90	759.4	29.92	760.0	82.5	28.1	74	wsw.	1.0	0.4			3			0	0	d. clouds	
Dhubri	29.82	757.5	29.94	760.5	78.7	25.9	78	calm	0	0			8	w.		0	0	d. clouds	
Chittagong	29.83	757.8	29.92	760.0	79.1	26.2	73	n.	1.1	0.5			2			0	0	d. clouds	
Sibsagar	29.60	751.8	29.94	760.3	78.1	25.6	82	ne.	4.0	1.8			5	w.	w.	0	0	d. clouds	
Jeypore	28.48	723.5	29.93	760.1	81.3	27.4	41	ese.	3.7	1.6			0			0	0	blue sky	
Zanzibar	29.89	759.2			79.7	26.5	75	nne.	4.2	1.9			3		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.61	752.1	30.02	762.4	62.2	16.8	66	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.50	749.3	30.02	762.4	59.0	15.0	78	sw.	1.3	0.6			9	w.		0	0		Prof. G.V.Schiapparelli
Padua	29.90	759.5	30.01	762.3	62.2	16.8	67	calm	0	0			8	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.3	30.01	762.2	57.9	14.4	80	wnw.	0.7	0.3			10			0	0		Prof. F. F. Denza.
Genoa	29.84	757.8	30.02	762.6	66.0	18.9	67	se.	8.1	3.6			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	30.03	762.7	58.1	14.5	70	nw.			4		10			0	0		Prof. D. C. Bruno.
Pesaro	29.96	760.9	30.00	762.1	65.8	18.8	86	ne.	9.4	4.2			8	sw.		0	0		Prof. Luigi Guidi.
Florence	29.78	756.5	30.04	763.0	69.8	21.0	55	sw.			2		7			0	0		Prof. Costantino Pitto
Leghorn	29.91	759.8	30.00	762.0	69.3	20.7	67	ssw.	3.8	1.7			6	sw.		0	0		Prof. P. Monte.
Rome	29.92	759.9	30.09	764.3	69.4	20.8	58	sw.	9.8	4.4			8			0	0		Prof. P. Tacchini.
Lecce	29.85	758.1	30.10	764.5	69.8	21.0	53	wsw.	6.3	2.8			0			0	0		Prof. C. de Giorgi.
Cosenza	29.22	742.3	30.11	764.8	68.7	20.4	64	sse.	3.1	1.4			3	se.		0	0		Prof. D. Conti.
Cagliari	29.87	758.7	30.06	763.5	73.8	23.2	56	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.89	759.3	30.14	765.6	69.4	20.8	70	ne.	4.3	1.9			2			0	0		Prof. G. Cacciatore.
Syracuse	30.08	764.1	30.13	765.2	71.8	22.1	59	e.	4.3	1.9			1	wnw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.59	751.5	30.10	764.5	69.6	20.9	67	sw.	0.7	0.3			5	sw.		0.031	0.8		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.01	762.3	30.04	763.2	60.9	16.1	97	e.			2		10ks;s		sw.	1.429	36.3	cloudy	H. Hattori.
Awomori	29.94	760.5	29.98	761.5	64.0	17.8	79	ssw.	16.0	7.1		0	4ks;ck		w.	1.038	26.4	fair	K. Ogawa
Hamamatsu	30.05	763.3	30.15	765.8	66.6	19.2	94	se.			2		10 n			0.094	2.4	raining	Sekigawa & Yamazaki.
Kagoshima	30.11	764.8	30.12	765.1	66.0	18.0	88	nw.			2	0	0			0	0	clear	G. Miyanohara.
Kanazawa	29.96	761.0	30.06	763.6	65.0	18.3	94	se.	7.1	3.1			10 n			1.237	31.4	raining	S. Endo.
Kioto	29.92	760.0	30.09	764.4	67.2	19.6	95	nnw.	1.8	0.8			10 s			0.154	3.9	cloudy	M. Tojima.
Kochi	30.07	763.9	30.09	764.4	67.0	19.4	100	nw.	0.4	0.2		0	2 s			0.09	2.2	clear	K. Kusunose.
Miasaka	30.08	763.9	30.10	764.6	66.9	19.4	89	wsw.			2	0	0			0	0	clear	K. Masusaki
Miyako	29.95	760.7	30.06	763.5	60.0	15.6	94	w.	2.0	0.9			10 s			0.177	4.5	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.89	759.2	30.09	764.3	70.1	21.2	91	calm	0	0		0	4 s		sw.	0.050	1.3	fair	S. Takehayashi
Niigata	30.04	763.0	30.07	763.8	62.6	17.0	95	se.	1.1	0.4			10 n			1.875	47.0	light rain	Satoo & Tomikawa.
Nobiru	30.07	763.7	30.08	764.1	59.1	15.1	99	nnw.	4.7	2.1			10 n			0.600	15.2	raining	Yoshino & Midzushina.
Numazu	30.10	764.5	30.14	765.5	64.3	17.9	91	ne.			1		10 s			0.173	4.4	hazy	R. Kaneda.
Osaka	30.08	763.9	30.09	764.3	67.9	19.9	89	ne.	3.5	1.5			10 s			0.050	1.3	cloudy	H. Omura.
Sakai	30.03	762.7	30.04	762.9	65.4	18.6	96	calm			0		10 ks		w.	0.752	19.1	cloudy	Yamawchi&Sakamoto.
Shimonoseki	29.93	760.3	30.08	764.0	67.0	19.4	97	calm			0		10 ks		sw.	0.073	17.1	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.06	763.5	30.13	765.4	66.2	19.0	95	ssw.	5.4	2.4		0	0			0.045	1.1	clear	The Staff.
Wakayama	30.03	762.8	30.08	764.1	70.3	21.3	85	s.	2.2	1.0			10n;ck		s.	0.090	2.3	light rain	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.81	757.2	30.00	762.0	76.0	24.4	64	ene.	6.5	2.9		0	8 k;ks;n		ne;s	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.03	762.7	59.0	15.0	81	wsw.	0.9	0.4		4 c	1 k			0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.67	753.6	29.92	760.1	77.5	25.3	75	nw.	5.3	2.3		1 cs	1 k	e.		0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.72	755.0	29.72	755.0	52.2	11.2		w.			4					0.071	1.8		
Groningen	29.52	749.9	29.58	751.3	48.2	9.0		w.			4					0.335	8.5		
Helder	29.60	751.9	29.60	751.9	50.0	10.0		wsw.			5					0.197	5.0		
Hellevoetsluis	29.70	754.4	29.70	754.4	50.7	10.4	61	w.			3					0	0		H. van der Brink
Utrecht	29.65	753.0	29.69	754.2	50.5	10.3	74	wsw.			2		8			0.020	0.5	very cloudy	
Sub-series.																			
Batavia, Java	29.89	759.1			80.4	26.9	79	ene.	0.5	0.2			6			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	28.99	736.3	29.05	737.9	43.5	6.4	86	se.	13	6			10			0.370	9.4	raining	
Brono	28.93	734.8	28.97	735.8	43.9	6.6	70	nne.			2		8			0.213	5.4		
Christiania	28.93	734.8	29.08	738.5	45.3	7.4	70	sw.	4	2			0			0	0		
Gjesvær	29.09	738.9	29.11	739.5	40.6	4.8		calm			0		10			0	0		
Lodingen	28.98	736.1	29.03	737.3	41.7	5.4	82	ne.			4		9			0.016	0.4		
PORTUGUESE.																			
Angra, Azores					64.8	18.2	92	nne.	4.9	2.2			10			0.197	5.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.07	763.7	30.15	765.9	71.8	22.1	69	sw.	3.8	1.7			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.8	30.09	764.2	67.8	19.9	61	nnw.	14.3	6.4			1			0	0		The Staff.
Ponta Delgada, Azores	30.22	767.6	30.29	769.4	73.4	23.0	56	calm	0	0			5			0	0		
Saint Paul de Loando	29.70	754.4	29.90	759.5	74.5	23.6	95	wnw.	0.7	0.3			10			0	0		
San Salvador, Congo	28.01	711.5	29.83	757.7	80.8	27.1	61	wsw.			2		6			0	0		
Serra da Estrella	25.36	644.2	30.03	762.7	55.9	13.3	68	w.	17.4	7.8			2			0	0		
RUSSIAN.																			
Akmolinski	29.36	745.7	30.48	774.3	36.9	2.7	52	sw.	4	2		5 ck	0			0	0		Major K. Lasarew.
Archangel	29.04	752.9	29.66	753.4	40.8	4.9	67	s.	13	6			10			0	0		Capt. Sseliwerstow
Ashurada	29.97	761.3	29.88	758.9	71.1	21.7	61	ne.	2	1		7 ck	0			0	0		
Astrakhan	30.13	765.4	30.06	763.5	52.3	11.3	51	se.	9	4		0	6 k;s			0.268	6.8		Capt. Wisganow.
Baku	29.93	760.2	29.88	759.0	63.1	17.3	84	ssw.	13	6			10 ks			0	0		
Barnaul	30.18	766.0	30.72	780.4	25.3	— 3.7	69	sw.	4	2			8			0	0		Meteorological Obs'y
Bielosersk	29.26	743.1	29.72	755.0	43.5	6.4	83	sse.	7	3		cs	8 k			0.004	0.1		
Dorpat	29.21	741.8	29.45	748.0	44.6	7.0	77	ssw.	9	4			10 ks			0.012	0.3		Observatory.
Ekaterinburg	29.39	746.6	30.38	771.7	44.6	7.0	67	calm	0	0		0	0			0	0	foggy	Meteorological Obs'y.
Elisawetgrad	29.61	752.2	30.06	763.6	55.6	13.1	37	sw.	18	8			9 ks			0	0		
Irkutsk	28.76	730.6	30.50	774.8	27.5	— 2.5	63	calm			0		0			0	0		
Kasalinsk																			
Kasan	29.84	757.9	30.11	764.9	49.8	9.9	37	sse.	11	5		1 c	0			0	0		Observatory.
Kem	29.40	746.7	29.45	748.0	43.9	6.6	74	ssw.	22	10			10 k			0	0	h'vy clouds	
Kertch	30.16	766.1	30.19	766.7	52.7	11.5	55	nnw.	4	2		0	3 k			0	0		Lagorio & Sastyrea.
Kieff	29.23	742.4	29.86	758.5	52.0	11.1	51	ssw.	9	4		c	9 ks			0	0	light clouds	Observatory.
Koslov	29.32	744.7	29.84	757.8	37.8	3.2	95	nnw.	4	2			10 n			0.532	13.5	light rain	
Libau	29.26	743.3	29.29	743.9	43.9	6.6	91	se.	9	4			10			0.130	3.3	raining	E. Quaas.
Lugan	29.80	756.8	30.00	762.0	49.1	9.5	54	wsw.	13	6			8			0.480	12.2		Meteorological Obs'y.
Moscow	29.30	744.2	29.78	756.3	47.7	8.7	59	sw.	3.4	1.5		7 cs	0			0.087	2.2		Meteorological Obs'y
Nikolaiev	30.06	763.4	30.13	765.5	57.0	13.9	58	sw.	18	8		0	4 k			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiewsk-on-the-Amoor	29.89	759.2	29.98	761.4	41.0	5.0	84	calm	0	0			10 n					light rain	Iwanow.
Pekin, China	30.00	762.1	30.15	765.7	55.8	13.2	74	calm	0	0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.85	758.1	30.21	767.2	53.2	11.8	28	e.	1.1	0.5		0	4 s			0	0		
Petrozavodsk	29.35	745.6	29.55	750.6	43.3	6.3	74	s.	16	7		7 ck	0			0.043	1.1		Dr. Bergmann.
Pinsk	29.13	739.8	29.63	752.5	45.0	7.2	91	s.	22	10			10 n			0.051	1.3	raining	
Poti	30.04	763.1	30.08	763.9	59.9	15.5	93	nw.	11	5			10 n			0.858	21.8	raining	
St. Petersburg	29.46	748.2	29.48	748.8	44.4	6.9	73	sse.	13	6			10 n			0	0		Central Physical Obs'y.
Samarkand	27.73	704.4	30.24	768.0	50.5	10.3	49	calm	0	0		0	0			0	0		
Semipalatinsk	29.99	761.7	30.70	779.7	25.0	— 3.9	55	calm	0	0			0			0	0		Major Lasarew
Sevastopol	30.00	761.9	30.21	767.3	57.6	14.2	50	n.	11	5		0	1 ks			0	0		
Staroi Bykhov	29.13	740.0	29.69	754.0	48.7	9.3	67	s.	13	6			9 kn			0	0		
Tashkend Laboratory	28.54	725.0	30.23	767.9	52.3	11.3	32	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.59	726.1	30.02	762.4	52.3	11.3	83	n.	7	3			10 n			0.024	0.6	light rain	Physical Observatory.
Vernoe	27.77	705.3	30.40	772.1	33.3	0.7	65	calm	0	0		1 cs	0			0	0		
Viatka	29.45	748.2	30.09	764.3	46.4	8.0	52	se.	7	3			1			0	0		
Warsaw	29.16	740.6	29.58	751.3	50.5	10.3	76	w.	29	13			9 kn			0.315	8.0	heavy cl'ds	Astronomical Obs'y.
Yeniseisk	30.45	773.3	30.76	781.3	17.6	— 8.0	78	nne.	4	2			10			0.008	0.2	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.3	70.2	21.2	76	sw.	4.3	1.9			9			0	0	covered	Antonio Molins.
Bilbao, Met. Obs'y	29.92	760.0	29.98	761.5	72.9	22.7	65	nw.	1.6	0.7		2	2	sw.		0	0	cloudy	Prof. Manuel de Navoran
Burgos, Met. Obs'y	27.12	688.9	29.98	761.6	66.2	19.0	63	w.	3.1	1.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.3	30.02	762.4	70.3	21.3	53	sw.	7.6	3.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.91	759.8	30.03	762.8	77.5	25.3	66	wsw.	1.8	0.8		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.24	742.8	30.00	762.1	59.9	15.5	90	s.	6.3	2.8		6 k	4 k	s.	s.	0.681	17.3		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.13	740.0	30.03	762.7	58.6	14.8	98	ssw.	9.4	4.2			10			0.047	1.2	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.87	758.7	29.94	760.4	72.9	22.7	90	e.	0.4	0.2		3cs;ck	4 k;s	s.		0.52	13.3	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.90	759.4	29.95	760.8	74.8	23.8	92	e.	1.1	0.5			9 kn			0.787	20.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.0	30.00	763.4	77.4	25.2	57	ese.	9.4	4.2		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.84	758.0	29.93	760.3	77.7	25.4	89	calm	0	0		1 k	2 k	sw.	sw.	0.417	10.6	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.18	741.2	29.22	742.2	40.6	4.8	90	s			2		10			0.150	3.8		
Umea	29.06	738.0	29.11	739.3	42.8	6.0	82	sw.			4		8			0.051	1.3		
Hernosand	29.07	738.4	29.12	739.7	45.0	7.2	72	sw.			4		0			0	0		
Stockholm	29.05	737.8	29.22	742.3	45.3	7.4	74	ssw.			2		9			0	0		
Wisby	29.23	742.4	29.29	743.9	46.4	8.0	86	w.			4		10			0	0		
Sub-series.																			
Upsala	29.09	738.9	29.18	741.1	45.7	7.6	81	ssw.	12.5	5.6			7		sw.	0.008	0.2		H.H. Hildebrandesson
Swiss.																			
Geneva	28.53	724.6	29.91	759.8	68.0	20.0	51	ssw			2		3			0	0	vapory	The Observatory.
Turkish.																			
Constantinople			30.18	766.5	62.2	16.8	53	n.	6	2.5			2		n.	0	0		The Observatory.
Valona			30.20?	767.1?	71.2	21.8		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	760.0	77.1	25.2	56	nw.			1		2 n		nw.	0.270	6.9		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.85	682.0			80	26.7	85	calm			0		0			0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.04	763.0	30.12	765.0	59	15.0	87	s.	5	2.2			10 n			0.07	1.8	light rain	J. O. Barnes.
Alpena, Michigan	29.86	758.4	30.53	775.4	29	— 1.7	67	n.	12	5.4		8 k	0	nw.		inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.8	30.00	762.0	35.0	1.7	82	calm	0	0		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.34	694.4	30.20	768.6	30	— 1.1	81	s.	3	1.3			10 s		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.03	737.3	30.22	767.6	62.0	16.7	87	e.	4	1.8		0	8 s		nw.	inap.	inap.	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.14	765.5	30.15	765.8	61.8	16.6	93	s.	6	2.7			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.03	762.7	30.22	767.6	63	17.2	84	calm	0	0		2 cs	3 s			0	0	fair	Louis Duane.
Baltimore, Maryland	30.13	765.3	30.18	766.6	62	16.7	90	s.	2	0.9			10n;fg			0.05	1.3	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	30.13	765.3	30.15	765.8	61.6	16.4	93	s.	10	4.5			10 n			0.03	0.8	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.90	734.0	30.52	775.2	25.5	— 3.6	88	se.	12	5.4		5 k	4 s	nw.	se.	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.44	697.0	30.35	770.9	28	— 2.2	59	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.65	727.7	30.53	775.4	26	— 3.3	100	e.	8	3.6		0	5 s			0	0	fair	B. O. Lenoir.
Block Island, Rhode Island	30.14	765.5	30.17	766.3	62.5	16.9	78	sw.	16	7.2			10 s		sw.	0	0	cloudy	J. T. Baker.
Boise City, Idaho	27.47	697.7	30.33	770.4	30	— 1.1	85	w.	2	0.9		0	6 s			0.03	0.8	fair	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.14	765.5	58.0	14.4	93	sw.	6	2.7			10 n			inap.	inap.	light rain	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.05	763.3	74.0	23.3	90	calm	0	0			10 ks		s.	0	0	cloudy	John McGlone.
Buffalo, New York	29.55	750.6	30.31	769.9	41.8	5.4	82	w.	8	3.5			10 s		nw.	0.39	9.9	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.27	718.0	30.37	771.4	33.3	0.7	88	se.	12	5.4			10 s			0	0	cloudy	A. Schneider.
Cairo, Illinois	29.93	760.2	30.33	770.4	49.7	9.8	90	n.	20	8.9		0	0			0.10	2.5	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.07	763.8	30.27	768.8	44.0	6.7	100	e.	2	0.9		0	fg			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.17	766.3	30.19	766.8	61.0	16.1	78	s.	11	4.9			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.12	765.0	30.15	765.8	62.0	16.7	87	s.	10	4.5			10 n			inap.	inap.	light rain	Wm. Bolton.
Cape Mendocino, California	29.41	747.0	30.10	764.5	51	10.6	59	ne.	8	3.6		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	71.0	21.7	92	ne.	9	4.0		0	1 k		ne.	0.01	0.3	clear	G. W. Davis.
Charleston, S. Carolina	30.11	764.8	30.17	766.3	65.0	18.3	93	ne.	6	2.7		0	3 ks			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.23	767.8	58.8	14.9	89	ne.	2	0.9		10 cs	fg.	e.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.21	767.3	62.0	16.7	93	s.	2	0.9		0	9 ks		w.	0.08	2.0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	30.19	766.8	34.1	1.2	92	s.	8	3.6			fg.			0	0	dense fog	E. McGovern.
Chicago, Illinois	29.73	755.1	30.44	773.2	42.0	5.6	73	n.	16	7.2			10 s		n.	0.01	0.3	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.10	766.1	30.18	766.6	62	16.7	87	s.	5	2.2			10 ks			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.62	752.3	30.28	769.1	56.2	13.4	80	n.	4	1.8		0	0			0.45	11.4	clear	L. Dunne.
Cleveland, Ohio	29.58	751.3	30.32	770.1	47.5	8.6	70	n.	15	6.7			10 ks		n.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.40	746.7	30.26	768.6	50.4	10.2	79	nw.	7	3.1		0	2 s		w.	0.09	2.3	clear	D. Cuthbertson.
Concho, Fort, Texas	28.30	718.8	30.25	768.3	59.0	15.0	84	ne.	12	5.4			10 s		ne.	0	0	cloudy	C. E. King.
Custer, Fort, M. T	27.01	686.0	30.25	768.3	26	— 3.3	76	w.	6	2.7			10 s			0	0	cloudy	T. Gibson.
Davenport, Iowa	29.80	756.9	30.46	773.7	41	5.0	82	ne.	11	4.9			10 n		ne.	inap.	inap.	light rain	R. R. Martin.
Davis, Fort, Texas	25.33	643.4	30.18	766.6	57.2	14.0	90	ne.	4	1.8			10 s		ne.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.56	725.4	30.34	770.6	34.9	1.6	89	nw.	1	0.4		0	0			0.02	0.5	clear	D. Moore.
Deadwood, Dakota	25.49	647.4	30.17	765.3	33.2	0.7	81	calm	0	0		0	0			0.08	2.0	clear	F. Des Willson.
Delaware Breakwater, Del	30.15	765.8	30.17	766.3	61	16.1	87	sw	12	5.4			10 s		sw.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.89	632.2	30.15	765.8	35.9	2.2	73	nw.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.60	751.8	30.52	775.2	30	— 1.1	78	n.	7	3.1		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.67	753.6	30.38	771.6	39.0	3.9	73	nw.	12	5.4		8 k	0	nw.		0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.81	706.4	30.44	773.2	34	1.1	88	n.	6	2.7		5 cs	0	w.		0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.89	759.2	30.01	777.5	38	3.3	68	ne.	8	3.6			10 s		n.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.90	759.4	30.66	778.7	24	— 4.4	73	n.	14	6.3		0	2 s			inap.	inap.	clear	N. B. Conger.
Eastport, Maine	30.11	764.8	30.18	766.1	51.5	10.8	80	s.	10	4.5			10 s			0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.60	701.0	30.38	771.6	38	3.3	100	ne.	8	3.6		0	1 s			0	0	clear	J. C. Rickli.
El Paso, Texas	26.43	671.3	30.17	766.3	55.0	12.8	80	e.	8	3.6		0	5 s		e.	0	0	fair	J. O'Dowa.
Erie, Pennsylvania	29.58	751.3	30.31	769.9	47	8.3	86	n.	8	3.6			10 s		n.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.93	760.2	30.00	777.2	29.1	— 1.7	88	n.	23	10.3		0	8 ks		n.	0	0	cloudy	George Heathcote.
Galveston, Texas	30.05	763.3	30.09	764.3	74.5	23.6	90	ne.	7	3.1		4 cs	4 ks		ne.	0.63	16.0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.78	756.4	30.45	773.4	32.0	2.0	78	n.	10	4.5			10 s		n.	0	0	cloudy	Wm. H. Fallon.

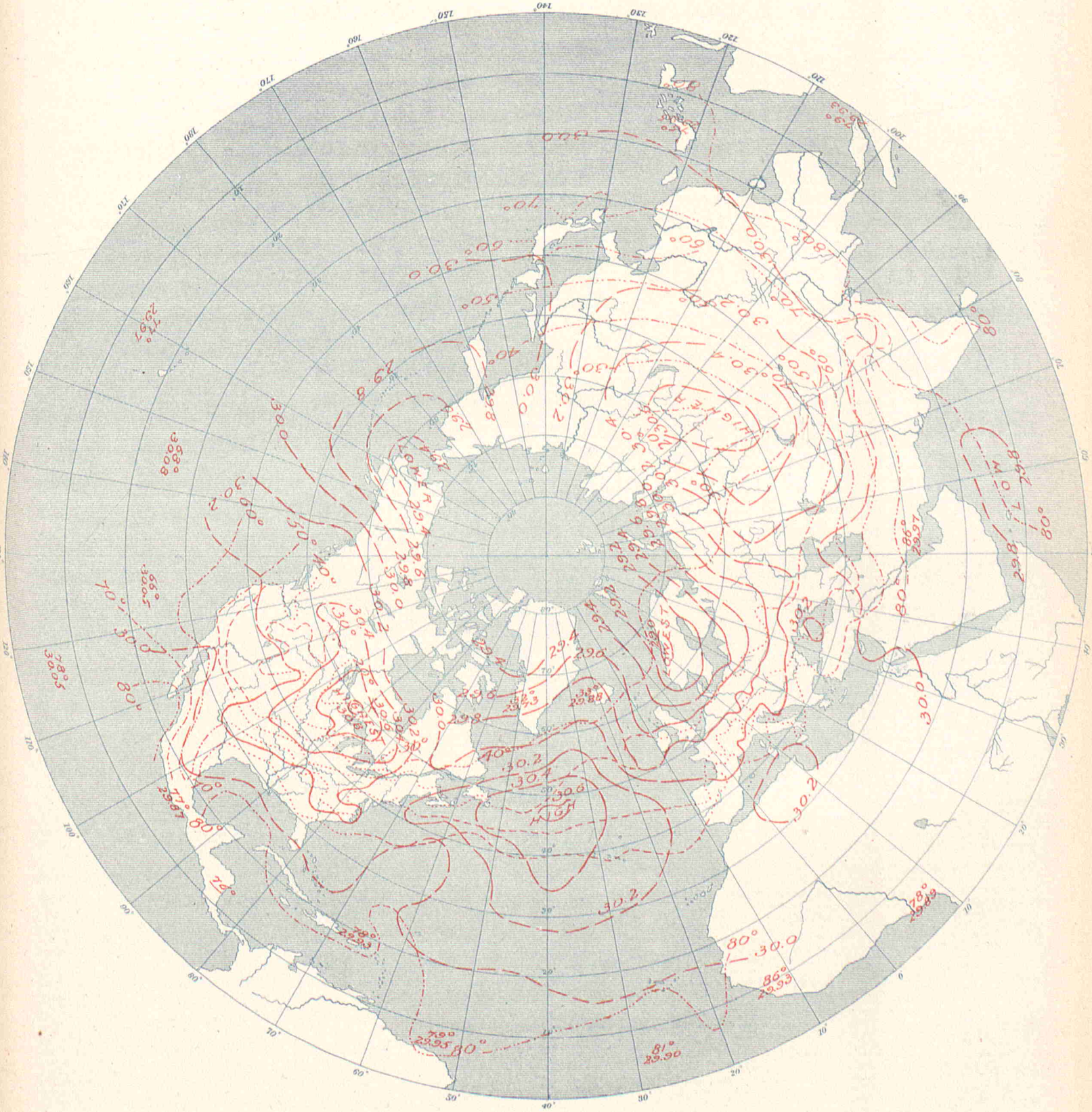
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.32	643.1	30.02	762.5	51.2	10.7	48	ne.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.20	767.1	30.20	767.1	62.0	16.7	87	e.	4	1.8	.....	3 c	hz.	se.	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.92	658.4	30.22	767.6	29	— 1.7	80	s.	1	0.4	.....	0	0	.....	.....	blank	blank	clear	I. H. Jones.
Huron, Dakota	29.15	740.4	30.58	776.7	23.3	— 4.8	76	n.	2	0.9	.....	0	3 s	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.49	749.0	30.29	769.4	46.0	7.8	76	ne.	4	1.8	.....	0	0	.....	.....	0.14	3.6	clear	C. F. R. Wappenhans.
Indianola, Texas	30.06	763.5	30.09	764.3	74.0	23.3	97	n.	16	7.2	.....	10 k	0	nw.	.....	0.04	1.0	cloudy	I. A. Reed.
Jacksonville Florida	30.08	764.0	30.12	765.0	71.0	21.7	84	e	4	1.8	.....	4 k	0	e.	.....	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.79	756.7	30.46	773.7	37.0	2.8	89	nw.	7	3.1	.....	0	1 s	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.93	760.2	29.95	760.7	73	22.8	90	ne.	12	5.4	.....	.....	10 ks	.....	ne.	1.01	25.7	threatening.	A. W. Browne.
Kittyhawk, North Carolina	30.21	767.3	30.23	767.8	58.0	14.4	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	Wesley Blake.
Knoxville, Tennessee	29.18	741.2	30.22	767.6	61.5	16.4	100	calm	0	0	.....	.....	10 n	.....	.....	0.19	4.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.79	756.7	30.58	776.7	27	— 2.8	77	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.60	751.8	30.50	774.7	35	1.7	69	n	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Lewiston, Idaho	29.51	749.5	30.36	771.1	45.0	7.2	68	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	O. E. Butler.
Little Rock, Arkansas	29.91	759.7	30.23	767.8	64.0	17.8	78	n.	11	4.9	.....	.....	10 s	.....	.....	0.71	18.0	cloudy	W. U. Simons.
Los Angeles, California	29.69	754.1	30.09	764.3	49.5	9.7	93	ne.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.67	753.6	30.24	768.1	54.0	12.2	84	n.	10	4.5	.....	0	2 s	.....	.....	0.79	20.1	clear	L. M. Dey.
Lynchburg, Virginia	29.48	748.8	30.16	766.1	60.5	15.8	90	calm	0	0	.....	.....	10 n	.....	.....	0.08	2.0	light rain	Jno. Healy.
Mackinaw City, Michigan	29.92	760.0	30.59	777.0	24.5	— 4.2	80	n.	15	6.7	.....	0	8 ks	.....	n.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.20	767.1	30.21	767.3	62.0	16.7	93	ne.	5	2.2	.....	1 cs	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.68	652.3	30.22	767.6	30.4	— 0.9	41	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.89	759.2	30.63	778.0	28.7	— 1.8	69	n.	10	4.5	.....	.....	10 s	.....	n.	0.07	1.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.86	758.4	30.20	767.1	64	17.8	100	n.	5	2.2	.....	.....	10 n	.....	.....	0.12	3.0	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.74	755.4	30.50	774.7	32.0	0.0	73	n.	16	7.2	.....	6 cs	2 s	n.	ne.	0.03	0.8	cloudy	W. Line.
Mobile, Alabama	30.06	763.5	30.10	764.5	72	22.2	78	ne.	5	2.2	.....	7 ck	3 k	sw.	e.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.92	760.0	30.16	766.1	65	18.3	90	e.	4	1.8	.....	5 cs	2 s	.....	.....	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.64	752.8	30.66	778.7	15	— 9.4	83	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.91	607.3	30.25	768.3	40.5	4.7	100	w.	32	14.3	.....	.....	fg;10n	.....	w.	0.12	3.0	light rain	S. W. Beall.
Nashville, Tennessee	29.62	752.3	30.20	767.1	61.5	16.4	96	ne	7	3.1	.....	.....	10 n	.....	ne.	1.28	32.5	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	58.8	14.9	98	s.	5	2.2	.....	.....	10 n	.....	s.	0.02	0.5	light rain	J. H. Sherman.
New London, Connecticut	30.13	765.3	30.18	766.6	59	15.0	100	w.	4	1.8	.....	.....	10 s	.....	.....	0	0	threatening.	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.06	763.5	74.0	23.3	90	e.	5	2.2	.....	2 c	1 s	w.	e	0	0	clear	M. Herman.
New York, New York	29.98	761.5	30.16	766.1	59.0	15.0	93	s.	2	0.9	.....	.....	10 n	.....	.....	inap.	inap.	light rain	H. J. Penrod.
Norfolk, Virginia	30.18	766.6	30.22	767.6	59.2	15.1	90	s.	3	1.3	.....	0	7k;fg	.....	sw.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.46	697.5	30.42	772.7	32.6	0.3	86	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.25	768.3	30.29	769.4	42.0	5.6	92	calm	0	0	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	J. Dascomb.
Omaha, Nebraska	29.36	745.7	30.56	776.2	27.0	— 2.8	74	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Pollak
Oswego, New York	29.84	757.9	30.18	766.6	52.5	11.4	90	n.	14	6.3	.....	.....	10 s	.....	n.	0.32	8.1	cloudy	J. G. Linsley
Palestine, Texas	29.61	752.1	30.17	766.3	68.0	20.0	92	ne.	10	4.5	.....	.....	10 ks	.....	ne.	1.73	43.9	cloudy	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	71.8	22.1	82	e.	7	3.1	.....	0	8 s	.....	e.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.07	763.8	30.17	766.3	60.5	15.8	93	sw.	4	1.8	.....	.....	10n;fg	.....	sw.	0.04	1.0	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.82	452.6	30.10	764.5	17	— 8.3	87	w.	28	12.5	.....	0	5 ks	.....	w.	0	0	fair	H. Hall.
Pittsburg, Pennsylvania	29.40	746.7	30.22	767.6	56.5	13.6	83	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.19	4.8	cloudy	G. C. Schaeffer.
Port Huron, Michigan	29.65	753.4	30.35	770.9	39.3	4.1	82	n.	22	9.8	.....	.....	10 s	.....	n.	0.10	2.5	cloudy	M. H. Perry
Portland, Maine	30.02	762.5	30.07	763.8	54.0	12.2	93	s.	4	1.8	.....	.....	10n;fg	.....	.....	inap.	inap.	light rain	W. W. Eichelberger.
Portland, Oregon	30.23	767.8	30.30	769.6	40.0	4.4	100	sw.	4	1.8	.....	.....	fg.	.....	.....	0.02	0.5	light fog	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.87	631.7	30.03	762.7	36.3	2.4	78	sw.	2	0.9	.....	8 cs	0	sw.	.....	0	0	cloudy	N. D. Lane.
Provincetown, Mass.	30.14	765.5	30.17	766.3	56.3	13.5	86	s.	11	4.9	.....	.....	10s;hz	.....	.....	0	0	cloudy	O. N. Kitchel.
Red Bluff, California	29.79	756.7	30.15	765.8	45	7.2	76	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.87	758.7	30.11	764.8	75.0	23.9	88	se.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	Fred. Belford.
Rochester, N. Y.	29.58	751.3	30.25	768.3	46	7.8	93	nw.	16	7.2	.....	.....	10 k	.....	nw.	0.36	9.1	cloudy	
Roseburg, Oregon	29.69	754.1	30.25	768.3	32.7	0.4	85	se.	1	0.4	.....	0	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765.3	44.8	7.1	93	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.80	756.9	30.42	772.7	41.8	5.4	84	n.	12	5.4	.....	0	0	.....	.....	0.11	2.8	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.19	741.4	29.22	742.2	37	2.8	89	se.	17	7.6	.....	3 ck	1 s	se.	se.	inap.	inap.	fair	Fred. H. Clarke.
St. Paul, Minnesota	29.73	755.1	30.60	777.2	26.0	— 3.3	64	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	P. F. Lyons.
St. Vincent, Minnesota	29.72	754.9	30.62	777.7	17	— 8.3	83	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.73	653.5	30.13	765.3	39	3.9	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	30.00	762.0	30.07	763.8	52.0	11.1	91	n.	3	1.3	.....	3 c	0	.....	.....	0	0	clear	F. R. Day.
Sanford, Florida	30.00	762.0	30.05	763.3	71.5	21.9	87	ne	3	1.3	.....	3 c	5 ks	e.	ne.	0.38	9.7	cloudy	J. B. Marbury.
Sandusky, Ohio	29.68	753.9	30.37	771.4	44	6.7	83	ne.	22	9.8	.....	.....	10 ks	.....	ne.	0.06	1.5	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	62.0	16.7	84	sw.	6	2.7	.....	.....	10 s	.....	sw.	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.06	763.5	30.13	765.3	51.0	10.6	93	sw.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	30.09	764.3	30.18	766.6	63.5	17.5	97	n.	8	3.6	.....	0	2s;fg	.....	.....	0.03	0.8	clear	H. W. Ford.
Shaw, Fort, Montana	26.54	674.1	30.24	768.1	19	— 7.2	87	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.87	758.7	30.11	764.8	68.3	20.2	86	ne.	9	4.0	.....	.....	10 s	.....	ne	0.23	5.8	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Mattingly
Sitka, Alaska	30.15	765.8	30.22	767.6	46.1	7.8	83	ne.	4	1.8	.....	.....	10 ks	.....	ne.	1.01	25.7	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.81	757.2	30.29	769.4	57.5	14.2	69	n	8	3.6	.....	0	6 s	.....	w.	0	0	fair	J. B. Campbell.
Smithville North Carolina	30.15	765.8	30.19	766.8	63.3	17.4	95	e.	4	1.8	.....	1 cs	hz.	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.32	770.1	39	3.9	73	sw.	1	0.4	.....	.....	10 k	.....	.....	0	0	cloudy	John F. Hemenway.
Springfield, Illinois	29.72	754.9	30.41	772.4	42.5	5.8	78	n.	8	3.6	.....	0	5 s	.....	n.	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	27.20	690.9	30.23	767.8	58.6	14.8	78	ne.	8	3.6	.....	0	6 s	.....	sw.	0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	30.22	767.6	.....	.....	43.2	6.4	98	e.	4	1.8	.....	0	8 s	.....	e.	0	0	cloudy	R. Connor.
Thomas, Camp, Arizona	27.38	695.4	30.09	764.3	39	3.9	32	se	.....	.....	1	8 cs	0	.....	.....	0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.67	753.0	30.37	771.4	41	5.0	59	n.	18	8.0	.....	.....	9 s	.....	n.	0.03	0.8	cloudy	A. Buell.
Unalashka, Alaska	29.58	751.3	29.61	752.1	44	6.7	60	sw.	28	12.5	.....	6 k	0	sw.	.....	0	0	fair	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.89	759.2	30.15	765.8	68.0	20.0	93	n.	5	2.2	.....	.....	10 n	.....	n.	1.52	38.6	thnd'r storm	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.06	763.5	30.18	766.6	61.3	16.3	91	calm	0	0	.....	.....	10 n	.....	sw.	0.05	1.3	light rain	T. B. Harrison.
West Las Animas, Colorado	26.30	668.0	30.22	767.6	38.5	3.6	88	se.	14	6.3	.....	0	1 s	.....	.....	inap.	inap.	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.14	765.5	30.20	767.1	63.0	17.2	90	e	3	1.3	.....	2 c	sk.	.....	.....	0	0	clear	Samuel A. Haney.
Yankton, Dakota	29.22	742.2	30.55	776.0	22.2	— 5.4	77	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. H. Thompson.
Yuma, Arizona	29.85	758.2	30.00	762.0	57.1	13.9	81	sw.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	78	25.6	.....	nw.	.....	.....	1	.....	10 n	.....	n.	0.40	10.2	raining	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2	.....	.....	53.2	11.8	88	calm	0	0	.....	.....	10 s;n	.....	se.	1.00	25.4	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.93	760.2	75.2	24.0	83	n.	2	0.9	.....	3 cs	1 s	.....	.....	0	0	fair	Robert Johnstone.
Paramaribo, S. A.	29.95	760.7	29.95	760.7	79	26.1	82	e.	.....	.....	2	4 k	3 s	.....	.....	0	0	fair	Dr. C. J. Herme.
Puerto Berrio, U. S. C.	29.40	746.7	29.96	761.0	77	25.0	89	calm	.....	.....	0	8 ck	2 ks	calm	calm	0.15	3.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	76	24.4	90	ne.	.....	.....	1	.....	6 ks	.....	ne.	0.81	20.0	fair	Earl Flint.
York Factory, B. A.	30.10	764.5	30.16	766.1	31.5	— 0.3	95	nw.	16	7.2	.....	3 k	3 s	nw.	nw.	0.10	2.5	.....	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 32′, E. 26° 11′	30.16	766 1	71	21.7	62	nnw.			3									blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.81	757.2	72	22.2	88	nne.			1		6	nne.						d. clouds.
H. M. S Himalaya, N. 48° 25′, W. 10° 35′	29.90	759.4	56	13.3	75	wsw.			4		3	wsw.				4	w.	d. clouds.
H. M. S. Iris, Alexandria, Egypt	30.02	762.5	76	24.4	68	nnw.			3		5							d. clouds.
H. M. S Inflexible, N. 39° 38′. E. 19° 57′	30.14	765.5	72	22.2	100	se.			1		2	nne.						d. clouds.
H. M. S. Monarch, Mitylene, Turkey	30.14	765.5	68	20.0	69	nw.			1		0							blue sky.
H. M. S. Opal, mouth of Niger river, W. Africa	29.89	759.2	78	25.6	86	w.			1		5	calm						showery.
H. M. S. Superb, N. 36° 05′ E. 21° 15′			70	21.1	90	var.			1		4	nnw.				1	wnw.	d. clouds.
H. P. M. S. Douro, St. Thomas, W. I	29.88	759.0	82.4	28.0	85	s.			5		9		sw.			5	se.	overcast.
U. S. Navy Yard, Portsmouth, N. H.*	30.08	764.0	50	10.0	93	s.	2	0.9			10		s.	0	0			misty.
U. S. S. Alliance, New York, N. Y	30.17	766.3	65	18.3	89	sse.			1		10							overcast.
U. S. S. Jamestown, N. 37° 47′, W. 72° 24′	30.19	766.8	65	18.3	94	e.			1		8		e.			long	ne.	fair.
U. S. S. Kearsarge, Cartagena, Spain	30.10	764.5	73	22.8	76	s.			2		0							clear.
U. S. S. Lancaster, Cartagena, Spain	30.17	766.3	70	21.1	95	s.			2		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I			61	16.1	88	s.			3		10		calm			sm'h		cloudy.
U. S. S. Portsmouth, Newburg, N. Y	30.15	765.8	61	16.1	100	s.			1		10		s.					raining.
U. S. S. Powhatan, Boston, Mass	30.15	765.8	59	15.0	94	s.			1		10							drizzling.
U. S. S. Quinnebaug, Leghorn, Italy	30.10	764.5	68	20.0	79	wsw.			1		5		w.					fair.
U. S. S. Swatara, N 24° 42′, W. 74° 05′	29.97	761.2	82	27.8	83	se.			4		10		se.	light	light	mod.	e.	fair.
U. S. S. Vandalia, Newburgh, N. Y†	30.15	765.8	62	16.7	100	s.			1		10							raining.
S. S. Lord Clive, N. 47° 28′, W. 45° 17′						sw.			3		0			0	0	long	ne.	fine.
S. S. Lord Gough, N. 51° 10′, W. 19° 20′	29.80	756.9	51	10.6		nnw.			6		8		nnw.	sh'rs	sh'rs	r'gh	cross	cloudy.
S. S. Ohio, Liverpool, Eng			49	9.4	100	w.			6		10		w.	12 h'r	12 h'r			cloudy.
S. S. Circassian, N. 51° 40′ W. 56° 05′	30.14	765.5	44	6.7	100	sw.			5		9		sw.			2	sw.	raining.
S. S. Nova Scotian, N. 45° 40′, W. 57° 45′	30.28	769.1	52	11.1		sse.			3		10		sse.			sli't	s.	cloudy.
S. S. Prussian, N. 52° 38′, W. 33° 05′	30.37	771.4	51	10.6		w.			3		10		nw.	0	0	long	nnw.	cloudy.
S. S. Alvo, N. 28° 45′, W. 74° 11′*	30.04	763.0	74	23.3		ne.			5		7		ne.	0	0	long	ene.	cloudy.
S. S. Andes, N. 39° 20′, W. 74° 00′			66	18.9		calm			0							sm'h		fine.
S. S. Ailsa, N. 9° 22′, W. 79° 54′			75	23.9	95	ese.			1		8		calm	0	0	sm'h		cloudy.
S. S. Avilla, N. 34° 02′, W. 76° 19′			71	21.7		ene.			5		5		ene.	0	0		var.	
S. S. Assyria, N. 53° 30′, W. 25° 37′	30.11	764.8	51	10.6	100	nw.			7		4		nw.	0	0	h'vy	nw.	squally.
S. S. Devonia, N 43° 48′, W. 57° 00′*†	30.34	770.6	58	14.4		ese.			2		8		se.			sli't	se.	cloudy.
S. S. Dorian, N. 41° 33′, W. 41° 35′	30.53	775.4	63	17.2		e.			5		10		e.	0	0	mod.	e.	cloudy.
S. S. Furnessia, N. 47° 50′. W. 37° 55′†	30.59	777.0	66?	18.9?		ne.			4		6?		ne.	0	0	sm'h		overcast.?
S. S. Llandaff City, New York, N. Y†	30.14	765 5	60	15.6		s.			2		10		sw.					rainy.
S. S. Cephalonia, N. 50° 53′, W. 19° 40′	29.85	758.2	55	12.8	81	nw.			6		5		wnw.	3 h'r	3 h'r	mod.	w	d. clouds.
S. S. Bothnia, N. 41° 26′, W. 55° 19′			70	21.1	80	ese.			6		10		se.	0	0	long	ese.	gloomy
S. S. Samaria, Boston, Mass			60	15.6		ssw.			3		10		s.					misty.
S. S. Arizona. N. 49° 00′, W. 41° 39′	30.55	776.0	49	9.4		wsw.			4		3		w.	0	0	mod.	nw.	clear.
S. S. Wyoming, N. 46° 56′ W. 46° 36′	30.57	776.5	49	9.4		sw.			3		0			0	0	mod.	ne.	clear.
S. S. Bohemia, N. 49° 33′, W 19° 43′						var.			3-6		8		wnw.	4 h'r	4 h'r	r'gh	nw.	fair.
S. S. Gellert, Havre, France			55	12.8	93	w.			5		10		w.	5 h'r	5 h'r	r'gh		covered.
S. S. Silesia, N. 47° 48′, W. 36° 30′	30.61	777.5	59	15.0		n.			1		5?		n.	0	0	long	n.	cloudy.?
S. S. Westphalia, N. 43° 29′, W. 52° 24′			56	13.3	94	var.			7		2		s.	0	0	mod.	se.	fair
S. S. Bulgarian, N. 44° 01′, W. 55° 12 *	30.42	772.7				se.			3		6		se.	0	0			cloudy.
S. S. Archimedes, N. 34° 04′. W. 13° 24′	30.12	765.0				nne.			2-3		5		n.	0	0	mod	nw.	fine.
S. S. Hevelius, Liverpool, Eng †	29.64	752.8	56	13.3		wsw.			6				w.	7 h'r	7 h'r			clear.
S. S. Rosse, N. 12° 30′, W. 26° 15′*	29.96	761.0	82	27.8		ne.			3				sw.	0	0	sm'h		clear.
S. S. Rio Grande. N. 30° 48′, W. 80° 30′ †	30.15	765.8	74	23.3		e.			3		2		e.	0	0	mod.	ese.	clear.
S. S. Chalmette, Algiers, La †	30.11	764.8	68	20.0		calm			0		6			2 h'r	2 h'r			fair.
S. S. New York, N. 31° 55′ W. 80° 00′*†	30.18	766.6	74	23.3		se.			3		10		s.	0	0	mod.	e.	cloudy.
S. S. Alleghany, N. 38° 50′ W. 74° 40′†	30.23	767.8	65	18.3		s.			2		10		e.	0	0	light		cloudy.
S. S. Archimede, N. 38° 05′, W. 62° 03′	29.99	761.8	78	25.6		e.			4		5?		ese.	4 h'r	4 h'r	h'vy	ene.	cloudy ?
S. S. City of Washington, N. 22° 10′, W. 87° 18′			85	29.4		ne.			2		5		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, Cienfuegos, Cuba, W. I			75	23.9		calm			0		7			5 h'r	5 h'r	sm'h		cloudy.
S. S. Egypt, N. 41° 45′, W. 62° 25′	30.21	767.3	62	16.7		nne.			4		8		nne.	0	0	cross	var.	fair.
S. S. Grecian, Glasgow, Scotland	29.51	749.5	57	13.9	87	wnw.			3		8		wnw.	½ h'r	½ h'r			squally.
S. S. England, New York. N. Y	30.09	764.3				s.			2		10		s.	0	0			cloudy.
S. S. Erin, N. 48° 22′, W. 26° 36′			49	9.4		nnw.			5		9		n.	0	0	h'vy	n.	cloudy.
S. S. The Queen, N. 50° 46′, W. 19° 08′	29.77	756.1	48	8.9		nnw.			6		5		nnw.	20 h'r	20 h'r	h'vy	wnw.	squally.
S. S. America, N 38° 30′, W. 70° 10′ *	30.16	766.1	65.0	18.3	70	ene.			3		1			0	0	long	e.	clear.
S. S. Elbe, N. 40° 30′. W. 71° 19′	30.20	767.0	57.2	14.0	94	sw.			3-4		10		s.	0	0	sm'h	sse.	covered.
S. S. Habsburg, N. 48° 34′. W. 38° 58′	30.57	776.5				wsw.			3		8		w	0	0	sm'h	n.	cloudy.
S. S. Orinoco, N. 35° 35′, W. 68° 12′ †	30.08	764.0	68	20.0		nne.			3		8		e.	0	0	h'vy	ene.	cloudy.
S. S. Oder, N. 50° 31′, W. 24° 33′	30.13	765.3	51.8	11.0		nw.			6-7		8		nnw.	2 h'r	2 h'r	high	wnw.	squally.
S. S. Ohio, Baltimore. Md									2		10		ne	6 h'r	6 h'r			cloudy.
S. S. Salier, N. 49° 04′. W. 29° 19′*	30.42	772.7	51.1	10.6		wnw.			5		9		nw.	1 h'r	1 h'r	cross	n.	cloudy.
S. S. Strassburg, N. 48° 18′ W. 37° 23′	30.59	777.0	57.0	13.9	58	w.			2		10		w.	0	0	4	n.	cloudy.
S. S. Werra, N. 46° 30′, W. 49° 55′			50.0	10.0		sse.			4		3		se.	0	0	sm'h	sse.	clear.
S. S. Weser, N. 28° 28′, W. 79° 11′	30.12	765.0	78.8	26.0		e.			5-6		4		e.	1 h'r	1 h'r	r'gh	e.	fair.
S. S. City of Augusta, N. 35° 50′, W. 75° 10′						s.			4		2		w.			sm'h		clear.
S. S. Belgenland, N. 47° 25′. W. 39° 15′			73?	22.8?		wsw.			3		8		w.	0	0	long	ne	cloudy.
S. S. Rhynland, Antwerp, Belgium	29.67	753.6	55	12.8		sw.			4		5		sw.	0	0			fair.
S. S. Pennland, Antwerp, Belgium			51	10.6	86	sw.			3		7		sw.	4 h'r	4 h'r			overcast.?
S. S. Waesland, New York, N. Y	30.17	766.3	60	15.6		s.			2		10		s.	2 h'r	2 h'r			rainy.
S. S. P. Caland, Rotterdam, Holland	29.67	753.6	59	15.0	84	wnw.			4		5		nw.					fair.
S. S. Leerdam, N. 41° 24′, W. 67° 12′			57.6	14.2	93	e.			1		3		e.	0	0	2	e.	clear.
S. S. Zaandam. N. 49° 19′ W. 20° —			58.3	14.6	86	nw.			6-8		8		nnw.	rain	rain	high	nw.	squally.
S. S. Caracas, Puerto Cabello, Venezuela *†	29.90	759.4	81	27.2	91	wsw.			1		5		e.	0	0	mod	ene.	fair.
S. S. W. A. Scholten. N. 44° 26′, W. 59° 27′	30.29	769.4	57.2	14.0	94	ene.			2		2		ene.	0	0			clear.
S. S. Valencia, N. 39° 56′, W. 73° 47′*†	30.18	766.6	67	19.4	84	s.			2		10		w.	0	0	mod.	e.	cloudy.
S. S. State of Nebraska, N. 54° 46′, W. 17° 42′*†	29.79	756.7	51	10.6		n.			5-6		4		nne.	3 h'r	3 h'r	mod	nw.	fair.
S. S, State of Alabama, N. 53° 40′, W. 16° 49′*†	29.65	753.1	52	11.1		n.			5		7		n.	sh'rs	sh'rs	con.	n.	showery.
S. S. Thingvalla. N. 49° 34′, W. 43° 32′ †	30.47	773.9	46.4	8.0		wsw.			3		3?		wsw.	0	0	r'gh	wsw.	covered?
S. S. Romano, N. 40° 11′, W. 53° 32′			72	22.2		ese.			6		8		se.	rain	rain	h'vy	e.	
S. S. Salerno, N. 45° 51′ W. 51° 31′*†	30.58	776.7	51	10.6		s.			2		5		w.	0	0	sm'h	s.	fair.
S. S. Ontario, N. 53° 02′, W. 50° 09′	30.15	765.8	43	6.1		sw.			4		9		sw.	0	0	r'gh	sw.	cloudy.
S. S. Oregon, N. 56° 01′, W 12° 55′	29.60	751.8	49	9.4		nw.			5		7		nw.			long	wnw.	cloudy.
S. S. Quebec, N. 54° 49′, W. 42° 01′	30.12	765.0	48	8.9		ssw.			4		10		ssw.	0	0	mod.	sw.	overcast .
S. S. Lake Huron, N. 49° 14′, W. 61° 13′	30.11	764.8	42	5.6		sw.			4		10		wsw.	6 h'r	6 h'r	mod.	wsw.	raining.
S. S. Lake Manitoba, off Liverpool, Eng	29.59	751.6	50	10.0		wnw.			6		5		wnw.	2 h'r	2 h'r	mod.	wnw.	showery.
S. S. Daniel Steinmann, New York, N. Y †	30.18	766.6	64	17.8		s.			1		10							rainy.
S. S. Britannic, N. 40° 50′ W. 68° 50′ †	30.22	767.6	53	11.7		e.			1		7		se.	0	0	sm'h		fair.
S. S. Celtic, Liverpool, Eng †	29.64	752 8	54	12.2		wnw.			6		8		w.	12 h'r	12 h'r	sm'h		squally.
S. S. Germanic, N. 49° 01′, W. 29° 35′*†	30.45	773.4	55	12.8		nw.			5		5		nnw.	1 h'r	1 h'r	long	nnw.	fair.
S. S. Republic, N. 50° 54′ W. 27° 11′*†	30.22	767.6	50	10.0		nnw.			6		8		nnw.	rain	&hail	h'vy	nw.	d. clouds.
S. S. Assyrian Monarch, N. 42° 45′, W. 55° 18′	30.37	771.4				ene.			6		5		ene.	0	0	h'vy	e.	fair.
Bk. Arda, N. 21° 32′, W. 48° 28′						e.			2		4		e.	0	0	mod.	e.	clear
Bk. Ariadne, N. 55° 55′, E. 12° 40′			48	8.9	85	wsw.			6		7		wsw.					fair.
Schr. Arthur Burton, Charleston, S. C.†	30.19	766.8				n.			2		2		n.	0	0	sm'h		clear.
Schr. Abbie H. Gheen, Baltimore, Md†	30.23	767.8	66	18.9		calm			0									stormy.
S. S. Antonio Lopez, Cadiz, Spain *	30.06	763.5	72	22.2	80	sw.			2		0			0	0			clear.
Bg. Alcira, N. 22° 50′, W. 66° 34′	29.97	761.2	80	26.7		nne.			4		2		ne.	0	0	cross	var.	clear.
Schr. Adda Doane, Demerara, British Guiana *†	29.92	760.0				e.			2		2		e.	0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Belle of the Bay, N. 27° 12′, W. 90° 57′ †	29.97	761.2				ene.			5		6		ene.	rain	rain	hv'y	e.	threatening
S. S. Benledi, N. 49° 30′, W. 4° 30′*	29.79	756.7	56	13.3	84	nw.			4		5		wnw.	12 h'r	12 h'r	mod.	var.	fair.
Bk. Ceylon, N. 3° 45′. W. 27° 36′†	29.90	759.4	81	27.2	91	ese.			4		9		ese.	4 h'r	4 h'r	long	se.	cloudy.
Schr. Clotilde, N. 24° :0′, W. 84° 45′ †	29.93	760.2	82	27.8		ese.			3		8		se	1 h'r	1 h'r	mod.	var.	cloudy.
Schr. C. R. Flint, N. 11° 28′, W. 60° 24′†	29.95	760.7	83	28.3		e.			3		2		ene.	o	o	mod.	ne.	clear.
S. Carondelet, N. 35° 57′, W. 62° 58′ *†	29.98	761.5				ene.			3		0			2 h'r	2 h'r	mod.	ne.	hazy.
S. S. D. J. Foley, N. 24° 15′, W. 74° 40*†	30.03	762.7	75	23.9	86	ene.			4		2		ene.	o	o	r'gh	ne.	clear.
S. Dynomene, N. 5° 06′, W. 21° 00′	29.90	759.4	80.1	26.7	91	sse.			3		7			light	light	mod.	sse.	fair.
S. E. J. Spicer, N. 41° 53′, W. 61° 10′	30.19	766.8	63	17.2	94	ese.			6		10		e.	1 h'r	1 h'r	mod.	e.	light rain.
Bk. E. D. Bigelow, N. 29° 13′, W. 94° 13′†	30.02	762.5	80	26.7		nne.			2		2		nne.	o	o	sm'h		fine.
S. Festina Lente, N. 55° 44′, W. 9° 20′	29.54	750.3	50	10.0		nw.			4		6		var.	2 h'r	2 h'r	long	wsw.	squally.
U. S. Fish Com. S. S Fish Hawk, Brooklyn, N. Y.†	30.21	767.3	62	16.7	94	ssw.			1		10		calm	o	o			cloudy.
Bg. George, Vineyard Sound, Mass						sse.			2		10							cloudy.
Bk. Galeon, N. 23° 41′, W. 64° 14′ †	29.92	760.0	82	27.8		n.			5		3		nne.	o	o		nnw.	blue sky.
Bk. Hattie G. McFarland, N. 23° 51′, W. 62° 30′†	30.00	762.0	78	25.6		ene.			5		4		e.	2 h'r	2 h'r	long	ne.	
S. Hedwig, N 31° 25′ W. 74° 34′	30.18	766.6	73.9	23.3	73	nne.			5		7		var.	o	o	3	ene.	fine.
Bk. Heinrich & Tonio, N. 44° 45′, W. 20° 20′†	30.28	769.1	57	13.9		nw.			5		5		nw.	5 h'r	5 h'r	long	nw.	fair.
Schr. Isabel Alberto, N. 30° 19′, W. 80° 16′†	30.13	765.3				e.			3		3		e	shr's	sh'rs	high	ene.	fair.
Schr. Jennie N. Huddell, Smithville, N. C.†	30.20	767.1	68	20.0	95	ne.			2		2		e.	o	o			clear.
Bk. John H. Pearson, N. 23° 29′, W. 23° 35′						ne.			4				nne.	o	o	long	ne.	clear.
Schr. John Bracewell, Portsmouth, N. H						s.			1		10		w.	rain	rain			light rain.
Bg. Josefa, N. 45° 25′, W. 59° 45′†	30.31	769.9				se.			3		9		sw.	o	o	short	se.	cloudy.
Bkt. John Baizley, N. 40° 23′, W. 70° 35′*†	30.23	767.8				sse.			4		10		sse.	o	o	long	e.	cloudy.
Bg. Lillian, N 37° 40′, W. 74° 40′ †	30.22	767.6	65	18.3		s.			2		8		nnw.	o	o	mod.	e.	cloudy.
Bg. L. & W. Armstrong, N. 38° 15′, W. 72° 20′*†	30.18	766.6				s.			1		4		nnw.	o	o	sm'h	ese.	fine.
S. S. Madrid, N. 37° 06′, E. 11° 40′†	30.16	766.1	70	21.1	90	nw.			5		0			o	o	mod.	nw.	fair.
Bk. Matilda C. Smith, off Dover, Eng.*†	29.78	756.4				w.			4		8		w.	o	o	sm'h		threatening
Bk. Matthias, N. 41° 20′, W. 42° 17′ *†	30.54	775.7	65.4	18.6		e.			5		8		e.	4 h'r	4 h'r	6	ne.	threatening.
Schr. Norena, N. 25° 00′, W. 62° 50′*†	30.04	763.0				n.			2		5		ene.	6 h'r	6 h'r	mod.	n.	squally.
Bk. National Eagle, N. 39° 01′, E. 9° 58′						calm			0					o	o	sm'h		clear.
Schr. Rollin Sanford, Pensacola, Florida †	30.11	764.8				ene.			4		8		se.	o	o			fair.
Bg. Rising Sun, N. 13° 00′, W. 59° 50′ †	29.97	761.2	82	27.8		sw.			3		6		sw.	o	o	mod.	s.	fair.
Bk. Rosalie, N. 6° 23′, W. 26° 00′*†	29.89	759.2				sse.			3		3		se.	1½ h'r	1½ h'r	light	se.	clear.
Bk. Saga, N. 54° 33′, E. 6° 13′*†	29.42	747.3	54	12.2		w.			8-9		7		w.	6 h'r	6 h'r	r'gh	w.	fair.
S. Salisbury, N. 36° 05′, W. 3° 00′	30.06	763.4	75.9	24.4	82	e.			0-1		4 k		e.	o	o	mod.		fair.
Bgt. Sunlight, N. 31° 54′, W. 61° 28′ †	29.84	757.9				e.			3		4		se.	3 h'r	3 h'r	r'gh	ne.	fair.
Bk. Samuel B. Hale, N. 23° 22′, W. 32° 25′*†	30.12	765.0				e.			3				ene.	o	o	short	ne.	clear
Bk. Sunbeam, Rotterdam, Holland †	29.54	750.3	51	10.6	79	wsw.			3		10		wsw.	3 h'r	3 h'r			cloudy.
S. St. Francis, N. 33° 49′, W. 41° 00′ *†	30.40	772.1	84	28.9		e.			1		8		s.	2 h'r	2 h'r	h'vy	s.	squally.
Bk. Southern Belle, N. 31° 20′, W. 20° —′†	30.17	766.3	68	20.0		e.			5		8			o	o	long	nw.	
Schr. Walter L. Plummer, N. 23° 41′, W. 47° 57′*†	30.05	763.3				se.			4		8		sse.			sm'h	se.	fair.
Bk. Pilgrim, N. 1° 15′, W. 33° 30′*†	29.95	760.7				se.			4		2		se.	¼ h'r	¼ h'r	mod.	se.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.90	759.4	59.2	15.1	82	sse.			6		8	se.				3	se.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.13	765.3	66	18.9	100	s.			3		2	se.						blue sky.
H M. S. Orontes, S 5° 54′, E. 2° 11′	29.90	759.4	73	22.8	81	s.			2		6					2	sse.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.98	761.5	59	15.0	76	sse.			3-5		9	calm						squally.
H. P. M S. Rainha de Portugal, Ambriz, Guinea	29.87	758.6	78.8	26.0	76	s.			3		9		s.	o	o	3		overcast.
U. S. S. Brooklyn, S. 33° 21′, W. 13° 20′*	30.21	767.3	61	16.1	88	sse.	15	6.7			8		sse.	o	o	mod.	sse	fair.
U. S. S. Nipsic, Montevideo, Uruguay*	29.96	761.0	58	14.4	81	se.			6		10		se.			sm'h		
S. S. Sirius, S. 2° 27′, W. 37° 36′	29.91	759 7				ese.			4		2		ese.	o	o	mod.	ese.	clear.
Bk Alpheus Marshall, S. 16° 13′, W. 23° 24′*†	30.02	762.5	73	22.8	95	e.			2		10		se.	1 h'r	1 h'r	mod.	sse.	threatening.
Bk. Bore, S. 31° 32′, E. 12° 44′*†	30.62	777.7	68	20.0		se.			4		4		s.	o	o	sm'h	s.	fair.
S. David Crockett, S. 20° 46′, W. 24° 40′*	30.11	764.8	73	22.8	74	ese.			3		4		ese.	o	o	sm'h	sse.	blue sky
Bk. E. L. Pettingill, S. 58° 16′, W. 65° 05′*†	28.80	731.5	40	4.4		w.			9		10		wsw.	rain	rain	h'vy	wsw.	stormy.
Bg. John Wesley, Natal, Brazil *†	29.84	757.9	83	28.3		e.			4		3		e.	½ h'r	½ h'r			hazy.
Bkt. Louise Adelaide, S. 34° 50′, W. 55° 15′†	30.06	763.5				se.			4		10		sw.	5 h'r	5 h'r			cloudy.
S S. Mendoza, S. 2° 10′, W. 37° 11′ †	30.00	762.0				se.			2		5		se.	o	o	sm'h	se.	
Bgt. Willie, Montevideo, Uruguay *†	29.94	760.5	60	15.6		sse.			6		9		sse.	6 h'r	6 h'r	short	s.	clearing.
Bk. Childwall, S. 33° 02′, W. 34° 33′	30.14	765.5	68	20.0		ene.			4		8		ene.	o	o	sm'h	ne.	cloudy.
Bk. Achille F, S. 6° —′, W. 34° 30′ †	29.98	761.5	82	27.8		ese.			4		1		se.	o	o	mod.	se.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.07	763.8	70	21.1	95	s.			1		1	sw.						blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.93	760.2	79	26.1	95	var.			1		4							d. clouds
H. M. S. Flying Fish, N. 32° 38′, E. 129° 42′			75	23.9	77	wnw.			4		9	sw.				3	v	showery.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.08	764.0	76	24.4		calm			0		3							d. clouds.
H. P. M. S. Tamega, Macao, China	30.00	761.9	81.5	27.5	77	e.			6		2			o	o			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.25?	768.3?	62	16.7		calm			0		0			o	o			foggy.
U. S. S. Essex, Nagasaki, Japan	30.06	763.5	77	25.0	95	wnw.			1		8							cloudy.
U. S. S. Hartford, N. 11° 57′, W. 87° 00′ *	29.76	755.9	80	26.7	87	ene.			3		8			rain	rain	sm'h		cloudy.
U. S. S Juniata, Canton, China	30.01	762.2	80	26.7	96	sse.			1		2		calm	o	o			fair.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.06	763.5	63	17.2	72	wnw.			4		2		wnw					fair.
U. S. S. Pensacola, Yokohama, Japan*	30.08	764.0	71	21.7	85	ssw.			5		0			o	o			misty.
U. S. S. Ranger, Mare Island, Cal	30.16	766.1	53	11.7	80	calm			0		0			o	o			clear.
U. S. S. Richmond, Yokohama, Japan	30.15	765.8	70	21.1	95	sw.			2		0			o	o			hazy.
S. S. City of Chester, Eureka, Cal.†	30.08	764.0	45	7.2	84	calm			0									clear.
S. S Oregon, N. 45° 18′, W. 124° 14′†	30.33	770.4	57.5?	14.2?	82	nne.			2							sm'h		clear.
S. S. Ancon, Point Arquello, Cal.†	30.08	764.0	55	12.8	87	nw.			3		0			o	o			clear.
S. S. Dakota, Tacoma, Wash. Ter †	29.55	750.6	53	11.7	100	baff.					4		s.	o	o	mod.	s.	hazy.
S. S. State of California, San Francisco, Cal.†	30.11	764.8	51	10.6	94	calm			0		5							foggy.
S. S. Victoria, New Westminster, B. C.†	30.31	769.9	42	5.6	94	n.			2		8		n.					fair.
S. S. City of Pekin, Yokohama, Japan†	30.15	765.8	70	21.1	80	n.			2		5		nne.	o	o			fair.
S. S. City of Sydney, N. 13° 40′, W. 160° 40′*†	29.97	761.2	77	25.0	91	ene.			2	2 ck		ne.						clear.
S. S. City of Tokio, N. 38° 17′, W. 132° 50′			60	15.6	71	e.			4		6		e.	o	o	small	e.	fine.
S. S. Colima, N. 9° 30′, W. 85° 00′†	29.87	758.7	75	23.9	90	nne.			3		8		n.	o	o	small	se.	cloudy
S. S. San Blas, N. 15° 40′, W. 97° 20′ †	29.87	758.7	77	25.0		calm			0		0			o	o	small	wsw.	clear.
S. S. San Juan, N. 22° 46′, W. 109° 09′			84	28.9		ene			3		8 k		ese.	o	o	light	ese.	fine.
S. S. Alameda, N. 26° 08′, W. 145° 48′†	30.08	764.0	68	20.0		ene.			1		1		sw.	½ h'r	½ h'r	light	ene.	fine.
S. Parker M. Whitmore, N. 23° 33′, W. 123° 40′*†	30.05	763.3	66	18.9		nne.			5		8		nne.	o	o	mod.	nne.	cloudy.
S. S. Strathleven, N. 19° 46′, E. 115° 32′	29.92	760.0	80.5	26.9	85	ene.			5		2		ene.	½ h'r	½ h'r	4	var.	blue sky.
S. Sovereign of the Seas, N. 5° 48′, W. 118° 05′*†	30.05	763.3	78	25.6	91	se.			4		4		se.	o	o	mod.	sse.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 6° 51′, E. 156° 13′	29.87	758.7	79.3	26.3	91	se.			3		7					2	se.	showery.
H. M. S. Magpie, S. 1° 46′, E. 105° 55′	29.88	758.9	80.5	26.9	78	nne.			1		1							blue sky.
H. M. S. Nelson, Sydney, N. S. W	29.91	759.7	52	11.1	?	calm			0		0							blue sky.
U. S. S. Iroquois, Callao, Peru	30.07	763.8	62	16.7	88	ssw.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.07	763.8	56	13.3	81	calm			0		8		nw.					cloudy.
U. S. S. Onward, Callao, Peru *†	30.12	765.0	61	16.1	87	ssw.			1		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, S. 30° 49′, W. 72° 00′ *	30.12	765.0	54	12.2	93	ssw.			3		2		calm			mod.	s.	fair.
S. S. Australia, Sydney, N. S W	30.20	767.1	64	17.8	94	wnw.			4		7		nw.	o	o			hazy.
S. S. City of New York, S. 34° 09′, E. 153° 09′ †	30.08	764.0	64	17.8	89	n.			2		10		n.	3 h'r	3 h'r	mod.	sw.	overcast.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. E. B. Sutton, S. 13° 40′, W. 129° 20′*†	29.98	761.5	77	25.0	88	e.	.....	.....	5	.....	2	.....	.....	0	0	h'vy	se.	clear.
S. Armenia, S. 45° 50′, W. 110° 00′*	29.62	752.3	53	11.7	73	w.	.....	.....	5	.....	5	.....	w.	½ h'r	½ h'r	r'gh	w.	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.01	762.2	66	18.9	.....	se.	.....	.....	4	.....	10	.....	se.	.....	...	long	se.	dense fog.
S. Storm King, S. 20° 16′, W. 125° 21′*†	30.15	765.8	.....	.....	.....	ese.	.....	.....	4	.....	1	.....	ese.	½ h'r	½ h'r	long	sw.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.89	759.2	80	26.7	87	calm	.....	.....	0	.....	4	calm	.....	.....	.....	.....	.....	d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.93	760.2	79	26.1	91	se.	.....	.....	2	.....	1	ese.	.....	.....	.....	1	sse.	blue sky.
H. M. S. Woodlark, Bushir Roads, Persia	29.97	761.2	85.5	29.7	76	ssw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	misty.
S. Frank N. Thayer, S. 35° 02′, E. 20° 17′*†	30.14	765.5	75	23.9	64	ssw.	.....	.....	2	.....	2 k	.....	ssw.	0	0	sm'h	.....	blue sky.
Bk. Great Surgeon, S. 29° 17′, E. 99° 27′*†	30.36	771.1	62	16.7	.....	wnw.	.....	.....	2	.....	10	.....	n.	0	0	mod.	sw.	cloudy.
Bk. Mohican, S. 41° 23′, E. 22° 40′	29.77	756.1	60	15.6	.....	wnw.	.....	.....	4	.....	10	.....	.....	0	0	long	sw.	foggy.
S. S. Radnorshire, N. 46° 26′, E. 34° 35′*†	30.00	762.0	.....	.....	.....	nnw.	.....	.....	6	.....	2	.....	nw.	0	0	r'gh	n.	fine.
S. S. Galatia, N. 12° 16′, E. 55° 34′†	29.75	755.6	79	26.1	91	sw.	.....	.....	5	.....	6	.....	sw.	2 h'r	2 h'r	rg'h	sw.	clearing.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 21, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.4	71.6	22.0	80	e.			1		0			0	0	clear	Roziere.
Algiers			30.20	767.1	72.3	22.4	68	wnw.			1		0			0	0	clear	Thève.
La Galle			30.05	763.3	77.7	25.4	62	w.			1		4			0	0	cloudy	Fonfrède.
Tunis			30.11	764.9	77.7	25.4	47	n.			2		4			0	0	cloudy	Delord.
Saida																			Pérès.
Tebessa					64.4	18.0	90	ne.			2		4			0	0	cloudy	St. Martin.
Geriville					68.0	20.0	32	nw.			3		1			0	0	very fair	Forfert.
Laghount			30.07	763.8	69.4	20.8	65	nw.			1		4			0	0	cloudy	Abraham.
Biskra			30.13	765.4	83.1	28.4	12	se.			1		1			inap.	inap.	very fair	Gouzon.
Australian.																			
Adelaide, South Australia			30.08	764.0	58.0	14.4	71	w.	16	7.2			10k;n			0.197	5.0	threatening.	Charles Todd, F. R.A.S.
Melbourne, Victoria.	29.79	756 6	29.88	758.9	52.0	11.1	79	nnw.	5	2.2			1			0.71	18.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.5	29.84	758.0	67.8	19.9	44	sw			3		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.1	29.91	759.7	49.5	9.7	60	wnw.	13.0	5.8			9			0	0		Dr. Wierzbiski
Eperies	28.91	734.2	29.76	756.0	60.8	16.0	73	calm			0		10 ks			0	0		Julius Mikolik.
Gratz	28.63	727.3	29.86	758.4	60.3	15.7	62	e.			3		8			0.098	2.5		Andreas Rospini.
Hermannstadt	28.51	724.2	29.90	759.4	67.6	19.8	45	nnw.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.66	728.0	30.03	762.5	46.4	8.0	92	w.			1		10			0.047	1.2	gloomy	The Staff.
Lemberg	28 76	730 4	29.71	754.8	62.2	16.8	62	nw.			6		9			0	0		Dr. T. Stanecki.
Pola	29.80	756.9	29.91	759.6	69.1	20.6	88	s.			5		4			0	0		I. R. Hydrographic Office.
Szathmar	29.37	745.9	29.82	757.5	65.5	18.6	63	w.			4		7			0	0		Joseph Midlinszky, S. J
Szegedin	29.59	751.6	29.86	758.5	67.1	19.5	62	sw.			2		6			0	0		Karl Stancel.
Trieste	29.84	757.9	29.94	760.4	68.5	20.3	63	sw.			1		10			0	0		Royal Academy.
Vienna	29.26	743.3	29.98	761.6	53.2	11.8	63	nw.			2		10			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.65	753.1	29.75	755.6	45.0	7.2	72	wnw.	20	8.9			6			0.020	0.5	squally	W. Boswell.
Armagh, Observatory	29.67	753.6	29.92	760.0	48.0	8.9	72	nw.	6	2.7									S. Call.
Bidston, Liverpool Obs'y			29.80	756.9	50.8	10.4	72	wnw.	16	7.2			3					d. clouds	John Hartnup.
Bolton, Sharples	29.26	743.2	29.80	756.9	48.0	8.9	76	nnw.	6	2.7			4					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0.37	9.4		McLandsborough & Preston.
Cardington	29.70	754.4	29.81	757.2	54.0	12.2	67	w.			1.0		1					blue sky	John McLaren.
Chatham, School M. E.	29.66	753.4	29.83	757 7	54.7	12.6	59	w.			2		6					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.70	754.4	29.93	760.2	52.0	11.1	70	wnw.			2		4					d clouds	The Staff.
Fort Napier, Natal	27.57	700.3	29.79	756.7	68.8	20.4	51	e.			1		6					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	85	29.4	92	s.			2		0?					raining?	J. W. Smith.
Galway, Queen's College	29.90	759.4	29.94	760.5	48	8.9	78	nw.			1		3			0.04	1.0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.03	762.7	30.09	764.3	70.0	21.1	90	nw.			5		2					blue sky	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.54	750.3	29.75	755.6	49.0	9.4	60	nnw.			3		2					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	53.2	11.8	66	w.			4		6					d. clouds	The Staff.
Guernsey	29.63	752.6	29.93	760.2	54.0	12.2	74	wsw.			1		6					showery	A. Collenette, F. M. S
Kew, Observatory	29.82	757.4	29.86	758.4	52.1	11.2	64	wnw.	12	5.4			5					d. clouds	The Staff.
Leicester, Museum	29.55	750.6	29.81	757.2	53.5	11.9	64	w.			2		5					d clouds	J. C. Smith.
Malta, Mediterranean	29.97	761.2	30.04	763.0	75.0	23.9	69	nw.			3					0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.92	760.0	29.96	761.0	78.0	25.6	76	e.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.31	744.5	29.83	757.7	49.6	9.8	77	wnw.			2		4					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.61	752.1	29.84	757.9	52.2	11.2	72	w.			3		4					d. clouds	The Staff.
Plymouth	29.82	757.4	29.90	759.4	51.5	10.8	82	n.			1		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.66	753 4	29.76	755.9	42.7	5.9	82						4					showery	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.96	761 0	30.03	762.7	68.8	20.4	59	sw.			1		0					blue sky	W. H. Lyne.
Sheffield	29.49	749.0	29.78	756.4	51.9	11.1	83	wsw.			1		1			0.16	4.1	blue sky	W. F. Cooper.
Silloth Rectory	29.77	756.1	29.80	756.9	51.0	10.6	80	nw.			1		4			0.010	0.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.80	756.9	50.0	10.0	65	w.	8	3.6			7			blank	blank	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss					55.0	12.8	68	w.			0.7		6					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.86	758.4	29.92	760.0	57	13.9	69	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.01	762.2	50.1	10.1	80	nnw.	15	6.7			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.68	753.9	30.08	764.0	73.4	23.0	71	s.	5.0	2.2		0	8 n		s.	0	0	cloudy	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.42	772.7	30.46	773.7	36.0	2.2		e.	10	4.5		2 ck	0	nw.	calm	inap.	inap.	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.18	766.6	30.22	767.6	39	3.9	87	n.	30	13.4			10 n			0.170	4.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.36	771.1	30.43	772.9	32	0.0	78	n.	10	4.5		8 ck	2 k	n.	n.	0.11	2.8	fair	G. A. Blair.
Cornwall, Ontario	30.31	769.9	30.51	774.9	27.5	— 2.5	70	se.			3	2 cs	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.46	773.7	30.51	774.9	32.5	0.3		w.			3	0	0			0.32	8.1	blue sky	H. A. Johnson.
Edmonton, N. W. T *																			Alex. Taylor.
Father Point, Quebec*	30.55	776.0	30.57	776.5	30	— 1.1	78	nne.	25	11.2		0	5 ks		nne.	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.48	748.8	30.36	771.1	27	— 2.8	84	s.	11	4.9			10 ks		nw.	0	0	cloudy	James Stewart.
Fredericton, N. B.	30.35	770 9	30.42	772.7	34.0	1.1	62	ne.	9	4.0		0	9 s			0.190	4.8	cloudy	Prof. Thos. Harrison.
Grand Manan, N. B.	30.27	768.8	30.33	770.4	37	2.8	72	ne.	26	11.6			10 s		n.	0.31	7.9	cloudy	J. Chipman Seeley
Granton, Ontario	29.32	744.7	30.50	774.7	27.0	— 2.8	70	calm	0	0		0	9 ks			0	0	d. clouds	Jas. Grant.
Halifax, N. S*	30.02	762.5	30.15	765 8	43	6.1	80	nw.	20	8.9			10 k		ne.	0	0	cloudy	A. Allison.
Hamilton, Ontario	30.01	762.2	30.41	772.4	36.5	2.5	77	ne.			3	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.17	766.3	30.53	775.4	29	— 1.7	77	ne.	10	4.5		0	0			0	0	clear	A. P. Knight, M. A.
Little Glace Bay, N. S.																			O. H. Rigby.
London, Ontario	29.55	750.6	30.50	774.7	30.8	— 0.7	78	ne.			1		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.85	707 4	30.27	768.8	21	— 6.1	91	calm	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.26	717.8	30.25	768.3	28	— 2.2	88	calm	0	0			10 n			inap.	inap.	light snow	Rev. J. M. Wellwood.
Montreal, Quebec*	30.35	770.9	30.57	776.5	29	— 1.7	74	ne.	11	4.9		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.35	770.9	30.59	777.0	26.9	— 2.8	70	n.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.86	758.4	30.01	777.5	25	— 3.9	73	n.	12	5.4		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.67	753.6	30.46	773.7	31.7	— 0.2	87	ne.			2	0	0			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.82	757.4	30.56	776.2	31	— 0.6	88	calm	0	0			10 n			0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.73	755.1	30.46	773.7	33	0.6	89	ne.	10	4.5		10 c	0	ne.		0	0	cloudy	G. Morgan
Port Stanley, Ontario	29.78	756.4	30.46	773.7	33	0.6	71	ne.	6	2.7			10 n		e.	0	0	cloudy	M. Payne.
Qu Appelle, N. W. T	27.85	707 4	30.19	766.8	31	— 0.6	100	s.	5	2.2			10 n		calm			light snow	Leslie Gordon.
Quebec, Quebec*	30.18	766.6	30.56	776.2	30	— 1.1	81	ne.	12	5.4		2 cs	0			0	0	fair	Capt. Asile, R. A.
Rockliffe, Ontario*	30.16	766.1	30.66	778.7	24	— 4.4	88	e.	5	2.2		0	0			0	0	clear	W. H. McIntyre.
St. Andrews, N. B.	30.29	769.4	30.34	770.6	37	2.8	71	n.	17	7.6			10 n			0.26	6.6	cloudy	
St. John, N. B	30.17	766 3	30.32	770.1	35.5	1.9	52	n.	20	8.9			10 ks			0	0	overcast	G. Hutchinson.
Saint John's, N. F.	29.81	757.2	30.06	763.5	52	11.1	100	s.			4		10 n			1.70	43.2	heavy rain	J. Higgins.
St. Pierre, N. F.			29.92	760.0	50.0	10.0		ne.			5					0.315	8.0		The Commandant.
Saugeen, Ontario*	29.80	756.9	30.55	776.0	31	— 0.6	47	e.	4	1.8		2 k	0			0	0	clear	
Stratford, Ontario	29.16	740.7	30.52	775.2	27.0	— 2.8	79	e.	2.0	0.9			10 s			0	0	d. clouds	G. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
CANADIAN.—Continued.																			
S. W. Point, Anticosti																			
Sydney, C. B.	29.98	761.5	30.04	763.0	47	8.3	100	n.	20	8.9			10 n			0.01	0.3	cloudy	Miss Grace Pope.
Toronto, Ontario*	30.12	765.0	30.53	775.4	29	— 1.7	64	ne.	10	4.5		10 cs	0			trace	trace	cloudy	A. C. Hall, C. E.
Woodstock, Ontario	29.41	747.0	30.54	775.7	29.6	— 1.3	79	?	14	6.3		10 cs	0	e.		0	0	overcast	Magnetic Observatory.
Yarmouth, N.S.*	30.14	765.5	30.21	767.3	42	5.6	86	n.	8	3.6			10 k		n.	0.01	0.3	cloudy	Prof. N Wolverton, M.A.
CAPE COLONY.																			Lt. F. E. Wilmot, R. N.
Cape St. Francis Lt.House	29.95	760.7	29.98	761.5	66.0	18.9	81	sw.	6.8	3.0		0	6 k			0	0	fine	
Cape Town	29.31	744.5			68.5	20.3	72	nw.				0	2 k			0	0		I. Garfelt.
Springbok Fontein	27.88	708.1			72	22.2	41									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.89	759.2	29.97	761.2	56.3	13.5	83	n.			4	4 ck		n.				fair	Samuel Redolez.
Iquique	29.98	761.5	30.01	762.2	60.3	15.7	80	sw.			3							cloudy	Rafael Moreno.
Niebla	29.73	755.1	29.84	757.8	47.1	8.4	97	e.			1	0	3 n		s.	0	0		Federico Köhling.
Punta Caldera	29.92	760.0	30.01	762.2	57.4	14.1	82	nw.			3	8	n	nw.	nw.			cloudy	Manuel Tobar.
Punta Corona	30.11	764.8	30.30	769.6				s.			1	0	2 k		n.	0	0		Francisco Alvarado.
Valparaiso	29.93	760.2	30.02	762.4	56.3	13.5	89	s.			1	0	0					clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.48	647.1																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.08	763.9	30.10	764.5	69.6	20.9	82	ese.	13.0	5.8		9 ck				0	0	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.39	746.4	29.43	747.6	51.6	10.9	68	w.	22	10			3						Oversergent Fischer.
Fanoe	29.50	749.2	29.52	749.7	50.7	10.4	80	w.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.4	29.59	751.5	26.4	— 3.1	80	nw.			4		9						S. Kleinschmidt.
Jacobshavn, Greenland	29.34	745.1	29.38	746.3	22.3	— 5.4		calm			0		5						
Stykkisholm, Iceland	29.42	747.2	29.46	748.3	41.7	5.4	80	s.			4		8						A. O. Thorlacius.
Thorshavn	29.75	755.7	29.78	756.3	40.5	4.7	84	n.	9	4			5						Overloerer Bergh.
Vestervig	29.29	744.0	29.38	746.3	50.7	10.4	75	w.			6		5						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.91	759.7			77.4	25.2		n.	3.8	1.7			2 k			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.35	745.5	30.01	762.2	53.6	12	87	ne.			1		nk	ne.	ne.	0.130	3.3		M. Labroue, Director.
Alençon, Normal School	29.46	748.2	30.01	762.2	44.2	6.8	94	s.			1				n.	0	0		M. Nicot, Director.
Avignon, Normal School	29.78	756.4	29.86	758.4	56.1	13.4	77	n.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.45	747.9	30.01	762.2	48.4	9.1	73	s.			1		10 kn	sw.	e.	0.543	13.8	covered	M. Saillard, Director.
Beauvais, Normal School	29.70	754.3	29.97	761.1	51.1	10.6	70	sw.			2		5		wsw.	0.457	11.6	cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.02	737.2	29.94	760.4	49.1	9.5	89	ne.			1		10		sw.	0.12	3.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.2	29.92	759.9	51.4	10.8	81	ne.			1		10			0.094	2.4	covered	M. Rayet, Director.
Bourges, Normal School	29.42	747.3	29.98	761.4	50.9	10.5	92	wsw.			1		k		wsw.	0.28	7.		M. Malet, Director.
Brest, Naval Observatory	29.73	755.2	29.98	761.4	57.9	14.4	82	se.			1		8		se	0.472	12.0	raining	M. de Kermarée, Dir.
Caen, Normal School	29.83	757.7	29.91	759.6	57.6	14.2	58	sw.			1		10			0.386	9.8	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.63	752.7	29.95	760.7	45.5	7.5	94	sw			2		2			0.642	16.3	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.45	748.0	29.97	761.2	49.3	9.6	79	sw.			2		5	ne.		0.126	3.2	½ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.59	726.2	29.97	761.1	46.2	7.9	78	n.			1		10			0.008	0.2		M. Allnard, Director.
Cluny, Normal School	29.13	739.9	29.98	761.6	47.3	8.5	76	n.			1				n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.13	740.0	30.00	762.1	48.2	9	81	w.			6		5 kn	w.	w.	0.91	23.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.35	694.7	29.89	759.2	50.4	10.2	96	e.			1		10 n			0.571	14.5	foggy	M. Jarach, Director.
Grésque, du Rhone	28.71	729.1	29.80	756.8	67.6	19.8	68	s.			2		5		sw.	0.051	1.3		M. Kina, Director.
Grenoble, Normal School	29.28	743.8	30.06	763.6	59.0	15	58	ne.			4		n		n.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.40	721.4	30.03	762.8	44.6	7	85	sse.			1		kn		ssw.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.60	751.9	29.88	758.9	51.8	11	75	nw.			4		5		nw.	0.31	8.	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.31	744.4	29.87	758.7	52.7	11.5	93	n			1		10			0.205	5.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.5	29.93	760.1	51.8	11.0	77	se.			1		10		s.	0.047	1.2	covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.89	733.8	29.97	761.1	45.5	7.5	89	nnw.			1		10 n			0.051	1.3	covered	M. André, Director.
Mans, Normal School	29.68	753.8	29.99	761.7	48.4	9.1	86	s.			1		5		s.	0.693	17.6	cloudy	M. Richard, Director
Marseille, Observatory	29.58	751.3	29.85	758.1	64.2	17.9	95	s.			1		8		se.	0.063	1.6		M. Stephan, Director.
Montlouis	24.69	627.1	29.53	750.1	45.6	7.2	83	e.	9.4	4.2			10			1.087	27.6		M. Cave for Dr. Fines.
Montpellier, Normal School	29.70	754.3	29.81	757.1	55.0	12.8	93	n.			4		10	nne.		0.47	12.	covered	M. Galzin, Director.
Nancy	29.22	742.1	30.00	762.1	47.8	8.8	78	ssw.			1	ck	n		ssw.	0.949	24.1		M. Hasse, Director.
Nantes, Observatory	29.82	757.4	29.97	761.3	54.5	12.5	71	ssw.			1		9 kn		ssw.	0.685	17.4		M. Latrocque, Director.
Perpignan, Observatory	29.76	755.8	29.87	758.6	60.1	15.6	74	se.	3.8	1.7			10			0.098	2.5		Dr. Fines, Director.
Pic-du-Midi, Summit	21.04	534.4			29.8	— 1.2		w.			4-6		5		w.	0.512	13.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	28.86	733.0	29.94	760.4	49.1	9.5	81	s.			1		10		s.	0	0	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.01	635.2			35.1	1.7	100	se.			2		10			0.098	2.5	foggy	M. Allnard.
Rochefort, Naval Obs'y	29.91	759.8	29.95	760.6	52.9	11.6	76	e.			1		10		e.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.1	29.95	760.6	50.7	10.4	82	se.			4		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.69	703.4	29.83	757.6	49.5	9.7	87	se.					0			0.47	12.	clear	M. Seger, Director.
Rouen, Normal School	29.86	758.5	29.91	759.7	55.0	12.8	66	ne.			1		5	ne.		0.169	4.3	cloudy	M. Moullilot, Dir.
St Lô	29.80	756.9	29.94	760.5	52.5	11.4	78	w.			1		5		nw.	0.20	5.	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.83	757.6	29.99	761.8	46.6	8.1	82	sw.			1		10		sw.	0.543	13.8		M. Renou, Director.
Toulouse, Observatory	29.18	741.2	29.90	759.5	52.5	11.4	90	n.			1		10	n.		0.209	5.3	covered	M. Baillaud, Director.
Tours	29.79	756.7	29.97	761.2	51.8	11.0	82	w			1		10		ese.	0.579	14.7	covered	M. de Tastes.
Versailles, Observatory	29.49	749.0	29.98	761.5	47.8	8.8	86	sw.			2		5			0.004	0.1	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.81	757.2	29.96	761.0	53.1	11.7	97	ne.	2.0	0.9			10 kn		nw.	0.295	7.5	raining	M. Cartier, Director.
GERMAN.																			
Ansbach	28.55	725.2	30.04	763.0	43.5	6.4	73	w.			4		5	w.		0.276	7.0		Prof. Juedt.
Bamberg	29.14	740.2	29.98	761.6	46.4	8.0	66	w.			1		8 k		w.	0.105	4.2	raining	Prof. Dr. Hoh.
Berlin	29.61	752.2	29.76	755.9	48.9	9.4	66	w.			6		10			0	0		Dr. Lensch.
Breslau	29.36	745.7	29.89	759.1	48.7	9.3	61	w.			4		3			0.220	5.6		Royal University Obs'y.
Carlsruhe	29.57	751.1	30.04	762.9	48.9	9.4	65	w.			2		5	sw.		0	0		Albert Senz.
Cassel	29.16	740.6	29.87	758.7	48.9	9.4	68	s.			4		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.58	751.3	29.95	760.6	50.7	10.4	63	wsw.			1		6			0.547	13.9		Physical Society.
Friedrichshafen	28.57	725.7	30.00	762.1	49.3	9.6	80	sw.			2		10	e.		1.331	33.8		Wilhelin, Chief Tel.
Hamburg	29.58	751.3	29.67	753.6	49.8	9.9	76	sw.			6		10			0.035	0.9		E. Preiler.
Kiel	29.57	751.0	29.58	751.4	48.6	9.2	87	w.			4		7			0.551	14.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.46	748.3	29.89	759.1	48.7	9.3	57	w.			4		6	w.		0.524	13.3	stormy	H. Leppig, Asst.
Magdeburg	29.60	751.7	29.78	756.5	52.2	11.2	62	wsw.			6		4	w.		0.028	0.7		Weather Observatory.
Memel	29.46	748.3	29.50	749.4	48.2	9.0	87	wsw.			6		10 ks						Issermann.
Munich	28.17	715.4	30.03	762.7	45.1	7.3	75	calm			0		10	ne.		0.003	1.6		Central Station.
Neufahrwasser	29.58	751.2	29.59	751.6	48.2	9.0	74	sw.			4		10			0.012	0.3		A. Lothes.
Neustadt, Palatinate	29.44	747.8	29.97	761.1	49.1	9.5	61	sw.			4		6	sw.		0	0		Dicknether.
Stuttgart	29.04	737.5	29.94	760.4	49.6	9.8	58	nw.			2		7	w.		0.028	0.7		Prof. Dr. Schoder.
Wustrow	29.52	749.8	29.54	750.4	48.4	9.1	81	sw.			6		10 s			0.248	6.3		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.69	754.1	30.07	763.7	72.5	22.5		s.			1.0		2			0	0	smoky	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.89	759.3	29.94	760.5	87.0	30.6	41	sw.	19.0	8.5			1			0	0	d. clouds	
Deesa	29.44	747.9	29.91	759.8	88.8	31.6	23	nne.	14.0	6.3			0			0	0	blue sky	
Bombay	29.86	758.3	29.89	759.3	80.9	27.2	85	wsw.	4.0	1.8			4	wsw.		0.32	8.1	d. clouds	
Poona, Yarrowda	28.05	712.4	29.93	760.3	71.3	21.8	93	se.	3.0	1.3			10			0.19	4.8	overcast	
Trichinopoly	29.63	752.6	29.91	759.7	82.0	27.8	69	ene.	0.1	0.04			6			0.46	11.7	d. clouds	
Bellary	28.40	721.4	29.90	759.3	71.0	21.7	93	nw.	4.0	1.8			9			0	0	gloomy	
Belgaum	27.35	694.6	29.91	759.8	71.2	21.8	79	wsw.	1.0	0.4			7	w.	s.	1.00	25.4	d. clouds	
Lahore	29.21	742.0	29.96	761.0	79.9	26.6	41	nw.	2.0	0.9			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.98	736.0	29.88	758.9	77.8	25.4	29	w.					0			0	0	blue sky	
Agra	29.36	745.7	29.92	760 0	84.7	29.3	34	w.					0			0	0	blue sky	
Nagpur	28.83	732.4	29.88	759 0	77.7	25.4	85	calm	4.0	1.8			6		e.	0.02	0.5	d. clouds	
Jubbulpore	28.54	725.0	29.92	759.8	74.8	23.8	73	se.	6.0	2.7			5		se	0.26	6.6	d. clouds	
Lucknow	29.53	750.0	29.91	759.6	79.2	26.2	53	nnw.	2.0	0.9			0			0	0	blue sky	
Allahabad	29.61	752.1	29.93	760.2	72.9	22.7	87	calm	0	0			0			0.32	8.1	blue sky	
Patna	29.74	755.4	29.93	760.2	70.9	21.6	90	sw.	1.9	0.8			10		sw.	0.28	7.1	overcast	
Hazaribagh	27.87	708.0	29.91	759.7	72.6	22.6	76	wsw.	6.4	2.9			10			0.04	1.0	drizzling	
Cuttack	29.81	757.1	29.89	759.2	83.0	28.3	76	calm	0	0			6			0	0	d. clouds	
Calcutta, Alipore	29.90	759 3	29.92	759.9	79.4	26.3	79	e.	0.5	0.2			1			0	0	d. clouds	
Dhubri	29.79	756.7	29.91	759.8	75.2	24.0	79	calm	0.8	0.4			2		sw.	0	0	d. clouds	
Chittagong	29.80	757.0	29.90	759 3	80.2	26.8	81	nw.	0.9	0.4			0			0	0	blue sky	
Sibsagar	29.60	751.8	29.94	760.4	78.1	25.6	73	ne.	2.0	0.9			10		w.	0.03	0.8	d. clouds	
Jeypore	28.50	724.0	29.94	760.5	83.1	28.4	38	nne.	2.7	1.2			3		ne.	0	0	d. clouds	
Zanzibar	29.90	759.4			82.9	28.3	62	ene.	3.0	1.3			2		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.50	749.4	29.91	759 8	60.8	16.0	92	e.	0.7	0.3			10			0.035	0.9		Prof. Giovanni Clodig.
Milan	29.35	745.6	29.87	758.7	57.7	14.3	89	ne.	1.3	0.6			10		se.	0.098	2.5		Prof. G.V.Schiapparelli
Padua	29.76	755.9	29.87	758 7	61.7	16.5	75	n.	9.8	4.4			10		w.	0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.4	29.86	758.5	61.0	16.1	76	ne.	2.5	1.1			10			0	0		Prof. F. F. Denza.
Genoa	29.69	754.1	29.88	759.0	64.2	17.9	89	s.	11.2	5.0			10		s.	0.409	10.4		Prof. G. M. Garibaldi.
Mondovi	27.97	710.5	29.89	759.3	57.2	14.0	60	sw.			2		2			0	0		Prof. D. C. Brunno.
Pesaro	29.87	758 6	29.91	759.8	68.4	20.2	53	sw.	6.3	2.8			7		sw.	0	0		Prof. Luigi Guidi.
Florence	29.66	753.3	29.91	759.8	70.3	21.3	53	s.			2		6			0	0		Prof. Costantino Pittei
Leghorn	29.77	756.2	29.86	758.4	69.1	20.6	70	s.	9.8	4.4			2			0	0		Prof. P. Monte.
Rome	29.80	757.0	29.98	761.4	69.1	20.6	57	sse.	9.4	4.2			10			0.319	8.1		Prof. P. Tacchini.
Lecce	29.77	756.1	30.02	762.5	69.1	20.6	68	wsw.	13.6	6.1			2		s.	0	0		Prof. C. de Giorgi.
Cosenza	29.15	740.3	30.04	762.9	66.2	19.0	63	sse.	3.1	1.4			3		se.	0	0		Prof. D. Conti.
Cagliari	29.71	754.6	29.90	759.4	68.0	20.0	67	se.			2		7			0	0		Prof. A. Pacinotti.
Palermo	29.76	756.0	30.01	762.3	72.0	22.2	64	ne.	1.3	0.6			9			0	0		Prof. G. Cacciatore.
Syracuse	29.96	761.0	30.00	762.1	72.9	22.7	66	ssw.	6.3	2.8			6		ssw.	0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.51	749 5	30.02	762.5	67.6	19.8	70	se.	1.3	0.6			7		sw.	0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.06	763.5	30.09	764.4	59.0	15.0	95	calm			0	0	3 k		w.	0	0	clear	H. Hattori.
Awomori	29.99	761.7	30.02	762.5	58.8	14.9	82	w.	17.1	7.6		0	5 ks		w.	0.024	0.6	fair	K. Ogawa.
Hamamatsu	29.95	760.7	30.05	763.2	64.7	18 2	75	w.			2	0	0			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.11	764.9	30.13	765.2	66.5	19.2	94	calm			0	0	0			0.020	0.5	clear	G. Miyanohaza.
Kanazawa	30.05	763.3	30.15	765.8	61.1	16.2	93	calm	0.2	0.1		0	0			0	0	fair	S. Endo.
Kioto	29.96	761.0	30.13	765.4	58.1	14.5	93	ne.	0.8	0.4		0	0			0	0	clear	M. Tojima.
Kochi	30.08	764.1	30 11	764.6	67.9	19.9	82	w.	1.5	0.6		0	1 s			0.02	0.5	clear	K. Kusunose.
Miasaka	30.10	764.5	30.13	765.2	70.9	21.6	89	ne.			1		10 s		e.	0	0	overcast	K. Masusaki
Miyako	29.91	759.7	30.02	762.5	53.2	11.8	92	wsw.	4.2	1.9		0	0			0.012	0.3	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.93	760.2	30.13	765 3	65.3	18.5	87	calm	0	0		0	0			0	0	clear	S. Takehayasu.
Niigata	30.08	764.0	30.12	765.0	65.0	18.3	83	n.	3.3	1.4		0	2ks;s		n.	0.010	0.2	fair	Satoo & Tomikawa.
Nohiru	30.03	762.7	30.04	763.1	61.6	16.4	70	n.	10.2	4.6		0	2 s			0.005	0.1	fair	Yoslino & Midzushina.
Numazu	29.99	761.7	30.02	762.6	65.1	18.4	93	ene.			1	0	2 s			0	0	clear	R. Kaneda.
Osaka	30.11	764.8	30.12	765.2	63.3	17.4	80	n.	4.6	2.1		0	0			0	0	clear	H. Omura.
Sakai	30.15	765.8	30.16	766.0	64.5	18.1	66	nnw.			2	0	0			0	0	clear	Yamawchi&Sakamoto.
Shimonoseki	30.01	762.2	30.15	765.9	64.2	17.9	66	nne.			2	0	1 s			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.97	761.2	30.04	763.1	66.3	19.1	85	s.	7.3	3.2		0	1 s			0.020	0.5	clear	The Staff.
Wakayama	30.05	763.2	30.10	764.5	67.4	19.7	75	ne.	0.7	0.3		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.01	762.2	74.8	23.8	75	ssw.	3.5	1.6			10n;ks					showery	The Staff.
MEXICAN.																			
Leon	24.36	618.7	30.[illegible]8	764.0	55.4	13.0	83	sw.	0.9	0.4		1 c	1 k			0	0	clear	Prof. M. Leal.
Mazatlan	29.63	752 6	29.89	759.1	76.0	24.4	91	ene.	0.9	0.4		0	0			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.85	758.2	29.85	758.2	53.6	12.0		wsw.			4					0	0		
Groningen	29.65	753.1	29.71	754.5	46.6	8.1		w.			5					0.063	1.6		
Helder	29.74	755 3	29.74	755.3	51.1	10.6		wsw.			5					0.051	1.3		
Hellevoetsluis	29.81	757.1	29.81	757.1	52.9	11.0	68	wsw.			4					0.012	0.3		H. van der Brink
Utrecht	29.78	756 3	29.82	757.5	53.8	12.1	70	wsw.			4		5			0.039	1.0	cloudy	
Sub-series.																			
Batavia, Java	29.88	759.0			78.3	25.7	83	ne.	0	0			6			0	0		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.32	744.8	29.39	746.4	47.8	8.8	63	nnw.	29	13			6			0.413	10.5		
Brono	29.29	743.9	29.33	744.9	46.4	8.0	59	nne.			2		2			0.028	0.7		
Christiania	29.11	739.5	29.26	743.2	44.8	7.1	77	calm	0	0			6			0	0		
Gjæsvær	29.41	747.0	29.43	747.6	38.5	3.6		calm			0		10						
Lodingen	29.32	744.7	29.37	745.9	40.8	4.9	62	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					64.4	18.0	69	ene.	12.5	5.6			4			0.295	7.5		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.03	762.8	30.12	765.0	71.4	21.9	69	se.	1.8	0.8			10			0	0		Capt. D. A. de Ounha.
Lisbon, Observatory	29.76	755.9	30.10	764 4	60.3	15.7	40	nnw.	18.6	8.3			4		wsw.	0	0		The Staff.
Ponta Delgada, Azores	30.31	769.9	30.38	771.7	66.2	19.0	49	ne.	19.9	8.9			5		wnw.	0.024	0.6		
Saint Paul de Loando	29.67	753.5	29.87	758.6	77.9	25.5	85	w.	1.3	0.6			8			0	0		
San Salvador, Congo	28.00	711.3	29.85	758.1	73.4	23.0	78	s.			1		10			0.173	4.4		
Serra da Estrella	25.20	640.0	30.04	763.1	36.1	2.3	92	nw.	21.0	9.4			10			0.118	3.0		
RUSSIAN.																			
Akmolinski	29.41	746.9	30.53	775.4	39.7	4.3	51	e.	9	4		0	0			0	0		Major K. Lasarew.
Archangel	29.64	752 9	29.66	753.4	30.3	2.4	89	ese.	9	4			10			0	0	light clouds	Capt. Sseliwerstow
Ashurada	30.28	769 0	30.18	766.6	65.5	18.6	87	w.	13	6			10 kn			0.843	21.4		
Astrakhan	30.31	769.8	30.23	767.9	52.2	11.2	48	nw.	7	3		0	1 k			blank	blank		Capt. Wisganow.
Baku	30.34	770.6	30.29	769.4	54.0	12.2	72	nnw.	18	8		0	8 kn			0.024	0.6		
Barnaul	30.21	767.2	30.74	780.8	29.7	— 1.3	55	n.	2	1		0	0			0	0		Meteorological Obs'y
Bielosersk	28.97	735 7	29.44	747.7	36.7	2.6	94	se.	11	5			10 s;n			0.209	5.3	light rain	
Dorpat	29.21	741.8	29.45	748.0	44.4	6.9	80	sw.	4	2			10 ks			0.051	1.3		Observatory.
Ekaterinburg	29.41	747.1	30.42	772.6	30.9	2.7	82	sse.	7	3			10			0	0		Meteorological Obs'y.
Elissawetgrad	29.48	748.9	29.92	760.0	66.6	19.2	39	ssw.	18	8		7 cs	0			0	0	light clouds	
Irkutsk	29.10	739.2	30.90	784.9	17.4	— 8.1	85	calm			0		3			0	0		
Kasalinsk																		raining	
Kasan	29.73	755.2	30.01	762.3	38.7	3.7	90	sse.	22	10			10 n			0.461	11.7		Observatory.
Kem	29.52	749.9	29.58	751.2	38.5	3.0	87	calm	0	0			10 k			0.138	3.5	h'vy clouds	
Kertch	30.19	766.9	30.22	767.5	54.3	12.4	52	calm	0	0		0	4 k			0	0		Lagorio & Sastyrea.
Kieff	29.03	737.3	29.64	752.8	66.2	19.0	47	sw.	31	14		0	3 ks			0	0	light clouds	Observatory.
Koslov	29.30	744.3	29.81	757.2	45.9	7.7	91	sw.	11	5			10 s;n			0.236	6.0		
Libau	29.38	746.2	29.40	746.8	43.7	6.5	93	sw.	20	9			10			0.480	12.2		E. Quass.
Lugan	29.90	759.5	30.10	764.6	56.8	13.8	67	ssw.	22	10			1			0	0		Meteorological Obs'y.
Moscow	29.10	739.2	29.58	751 3	45.7	7.6	67	sw.	5.6	2.5			10 n			0.055	1.4		Meteorological Obs'y
Nikolaiev	29.97	761.3	30.04	763.1	63.0	17.2	79	ssw.	45	20		0	3 kn			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	30.14	765.6	30.23	767.8	33.1	0.6	76	calm	0	0			10 n						Iwanow.
Pekin, China	29.65?	753.1?	29.79?	750.7?	50.2	10.1	92	calm	0	0		0	2 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.86	758.4	30.22	767.5	55.2	12.9	32	calm	0	0			10 ks			0	0		
Petrozavodsk	29.24	742.8	29.44	747.8	41.0	5.1	92	se.	16	7			10			0.287	7.3		Dr. Bergmann.
Pinsk	29.01	736.8	29.49	749.1	58.3	14.6	70	sw.	34	15			10 ks			0.122	3.1		
Poti	30.17	766.2	30.20	767.0	66.9	19.4	80	e.	4	2		0	0			0.740	18.8		
St. Petersburg	29.39	746.4	29.41	747.0	42.8	6.0	84	nne.	4	2			10 kn			inap.	inap.		Central Physical Obs'y.
Samarkand	27.70	703.6	30.17	766.2	57.4	14.1	39	calm	0	0		3 c	0			0	0		
Semipalatinsk	29.95	760.6	30.64	778.3	34.0	1.1	32	n.	9	4			0			0	0		Major Lasarew
Sevastopol	29.91	759.6	30.12	765.0	61.5	16.4	57	s.	40	18		1 cs	0			0	0		
Staroi Bykhov	29.06	738.0	29.61	752.2	43.7	6.5	96	se.	4	2			10 n			0.205	5.2		
Tashkend Laboratory	28.47	723.1	30.14	765.5	57.6	14.2	25	calm	0	0		0	2 k			0	0		Terch, A. M
Tiflis	28.81	731.8	30.22	767.6	61.7	16.5	38	nw.	4	2		0	6 ks			0.024	0.6		Physical Observatory.
Vernoe	27.66	702.6	30.24	768.2	39.4	4.1	58	calm	0	0		0	0			0	0		
Viatka	29.28	743.7	29.93	760.1	37.6	3.1	95	se.	7	3			10			0	0		
Warsaw	29.33	745.0	29.76	755.9	44.2	6.8	81	w.	16	7		0	7 k			0.213	5.4	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.47	773.8	30.78	781.7	24.1	— 4.4	97	se.	2	1			10			0.004	0.1	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.68	753.8	29.78	756.4	67.3	19.6	77	ese.	5.6	2.5		0	8			0	0		Antonio Molins.
Bilbao, Met. Obs'y	29.90	759.5	29.96	761.0	53.8	12.1	91	nw.	2.5	1.1			10			0.299	7.6	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.95	684.5	29.93	760.3	49.3	9.6	81	ne.	8.1	3.6		0	8			0.165	4.2	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.64	702.1	29.85	758.2	58.6	14.8	59	nw.	19.5	8.7			10			0	0	covered	The Staff.
Murcia, Met. Obs'y	29.66	753.4	29.79	756.6	80.1	26.7	62	s.	2.7	1.2			2	e.		.0	0	clouds	Olayo Diaz, Director.
Oviedo	29.15	740.5	29.91	759.8	52.7	11.5	89	se.	0.9	0.4		4 s		sw.		0.114	2.9		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.10	739.0	30.00	762.1	51.3	10.7	77	nw.	6.3	2.8			8			0.091	2.3	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.82	757.5	29.89	759.1	75.1	23.9	87	se.	3.1	1.4		4 c;ck	1 sk	w;sw		0.03	0.7	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	80.8	27.1	80	sse.	4.4	2.0		0	k			blank	blank	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	759.9	30.02	762.4	63.7	17.6	76	w.	6.6	3.0			9		w.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.85	758.3	29.95	760.6	78.8	26.0	98	calm	0	0		4 k	5 kn	n.	n.	0.291	7.4	raining	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.49	749.0	29.53	750.1	40.3	4.6	94	s.			2		10			0.087	2.2		
Umea	29.36	745.8	29.41	747.1	39.9	4.4	93	s.			2		10			0.098	2.5		
Hernosand	29.29	743.9	29.34	745.2	46.0	7.8	75	calm			0		10			0	0		
Stockholm	29.10	739.1	29.28	743.6	44.6	7.0	91	calm			0		10			0	0		
Wisby	29.23	742.4	29.29	743.9	47.5	8.6	84	wsw.			4		7			0.079	2.0		
Sub-series.																			
Upsala	29.26	743.2	29.35	745.4	41.4	5.2	100	ne.	3.6	1.6			10		ene.	0.059	1.5	raining	H. H. Hildebrandsesson
Swiss.																			
Geneva	28.50	724.0	29.94	760.4	51.1	10.6	73	n.			2		10			0.236	6.0	covered	The Observatory.
Turkish.																			
Constantinople			30.13	765.2	64.8	18.2	65	ne.	0	0			0			0	0		
Valona			30.15?	765.7?	74.7	23.7		sw.			1		2			0	0	slightly cld'y	The Observatory.
Sub-series.																			A. Bertrand.
Beirut, Lee Obs'y, Syria			30.00	762.1	76.8	24.9	52	ne.			2		1 k		ne.	0.275	7.0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.81	681.0			80	26.7	79	calm			0		1 k		w.	0	0	clear	Fred L. Kingsbury.
United States.																			
Albany, New York	30.35	770.9	30.43	772.9	37	2.8	61	ne.	11	4.9			10 s		n.	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.86	758.4	30.53	775.4	36	2.2	61	e.	13	5.8			10 s		e.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.94	760.5	38.0	3.3	82	e.	2	0.9		10 cs	0	w.		0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	27.27	692.6	30.19	766.8	33	0.6	81	sw	14	6.3		0	8 k		sw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.12	765.0	60.3	15.7	98	ne.	8	3.6		0	9 ks		n.	0.01	0.3	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.24	768.1	30.25	768.3	46	7.8	80	n.	13	5.8			10 s			0.06	1.5	cloudy	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.14	765.5	65	18.3	78	calm	0	0		0	5 s			inap.	inap.	fair	Louis Duane.
Baltimore, Maryland	30.29	769.4	30.34	770.6	46.7	8.2	68	n.	6	2.7		2 k	5 s	w.	w.	0.23	5.8	fair	Geo. W. Felger.
Barnegat City, New Jersey	30.24	768.1	30.26	768.6	49.0	9.4	86	ne.	24	10.7			10 s		e.	0.05	1.3	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.65	727.7	30.27	768.8	30.5	— 0.8	85	nw.	3	1.3		4 k	5 s	nw	nw.	0.02	0.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.34	694.4	30.25	768.3	32	0.0	62	calm	0	0			9 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	28.49	723.6	30.37	771.4	31	— 0.6	88	calm	0	0			10 s			1.50	38.1	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.24	768.1	30.27	768.8	46.5	8.1	82	ne.	38	17.0		0	8 s		ne.	0	0	cloudy	J. T. Eiker.
Boise City, Idaho	27.36	694.9	30.22	767.6	29	— 1.7	92	nw.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.20	767.1	30.36	771.1	37.0	2.8	72	n.	11	4.9			10 s		n.	0.26	6.6	cloudy	O. B. Cole.
Brownsville, Texas	29.95	760.7	30.01	762.2	72.0	22.2	97	n.	4	1.8		0	3 s			0.03	0.8	clear	John McGlone.
Buffalo, New York	29.68	753.9	30.44	773.2	35	1.7	69	ne.	8	3.6		0	9 ks		ne.	inap.	inap.	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.14	714.7	30.24	768.1	32.4	0.2	100	s.	2	0.9			10 n			0.01	0.3	light snow	A. Schneider.
Cairo, Illinois	29.91	759.7	30.31	769.9	40.8	4.9	87	ne.	12	5.4		0	5 ks		ne.	0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	30.03	762.7	30.23	767.8	43.0	6.1	95	n.	2	0.9		0	0			0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.20	767.1	30.22	767.6	53.0	11.7	93	ne.	17	7.6			10 s		ne.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.23	767.8	30.26	768.6	46.0	7.8	80	n.	12	5.4			10 s			0.10	2.5	cloudy	Wm. Bolton.
Cape Mendocino, California	29.39	746.5	30.08	764.0	50	10.0	93	n.	18	8.0		0	fg.		n.	0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	72.0	22.2	82	ne.	8	3.6		0	0 s		e.	0	0	fair	G. W. Davis.
Charleston, S. Carolina	30.04	763.0	30.10	764.5	64.0	17.8	90	ne.	6	2.7		6 ck	0	sw.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.15	765.8	61.5	16.4	96	w.	1	0.4			10 n		w.	0.07	1.8	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.15	765.8	60.5	15.8	90	ne.	5	2.2			10 s		n.	0.81	20.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	30.18	766.6	25.0	— 3.9	76	w.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.68	753.9	30.39	771.9	40.0	4.4	73	ne.	6	2.7			10 s		e.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	49	9.4	93	n.	21	9.4			10 n		ne.	inap.	inap.	light rain	C. F. Dickens.
Cincinnati, Ohio	29.68	753.9	30.34	770.6	42.4	5.8	72	ne.	7	3.1			10 s		ne.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.62	752.3	30.36	771.1	38.5	3.6	48	e.	11	4.9			10 k		e.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.47	748.5	30.33	770.4	37	2.8	82	n.	3	1.3		0	0			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.17	715.5	30.12	765.0	59.5	15.3	93	e.	6	2.7			10 s		calm	0	0	cloudy	C. E. King.
Custer, Fort, M. T.	27.00	685.8	30.24	768.1	29	— 1.7	80	ne.	3	1.3		5 cs	0	w.		0	0	fair	T. Gibson.
Davenport, Iowa	29.71	754.6	30.37	771.4	37.5	3.1	82	ne.	1	0.4			10 ks		e.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.27	641.8	30.12	765.0	58.0	14.4	92	se.	8	3.6			10 s		se.	inap.	inap.	cloudy	J. Williams.
Dayton, Washington T'y	28.47	723.1	30.26	768.6	30.2	— 1.0	81	e.	5	2.2		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.52	648.2	30.20	767.1	30.2	— 1.0	81	calm	0	0			10 s			0.02	0.5	cloudy	F. Des Willson.
Delaware Breakwater, Del	30.25	768.3	30.27	768.8	50	10.0	86	ne.	24	10.7			10 s		ne.	0.06	1.5	cloudy	F. W. Mixer.
Denver, Colorado	24.91	632.7	30.17	766.3	35.0	1.7	72	nw.	2	0.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.45	748.0	30.37	771.4	36	2.2	69	se.	7	3.1		10 cs	0	nw.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.72	754.9	30.43	772.9	37.0	2.8	72	ne.	11	4.9			10 s			0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27.52	699.0	30.15	765.8	47	8.3	86	se.	12	5.4			10 s			0.01	0.3	cloudy	J. H. Bryce.
Dubuque, Iowa	29.70	754.4	30.42	772.7	31.7	— 0.2	79	calm	0	0			10 ks		e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.71	751.6	30.47	773.9	32	0.0	78	sw.	3	1.3		0	2 s		sw.	0	0	clear	N. B. Conger.
Eastport, Maine	30.26	768.6	30.34	770.6	37.0	2.8	61	ne.	24	10.7			10 s		nw.	0.34	8.6	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.36	694.9	30.16	766.1	53	11.7	100	se.	12	5.4			10 s			0.14	3.6	cloudy	J. C. Rickli.
El Paso, Texas	26.32	668.5	30.06	763.5	48.1	8.9	100	se.	4	1.8		7 c	0	e.		0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.66	753.4	30.39	771.9	39	3.9	79	e.	13	5.8			10 s		e.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.85	758.2	30.52	775.2	35.5	1.9	66	e.	8	3.6			10 s		e.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.99	761.7	30.03	762.7	70.5	21.4	90	ne.	16	7.2		0	8 ks		e.	0.14	3.6	cloudy	E. O'C. Macinerney.
Grand Haven, Michigan	29.75	755.6	30.42	772.7	33.0	0.6	78	ne.	9	4.0			10 s		e.	0	0	cloudy	Wm. H. Fallon.

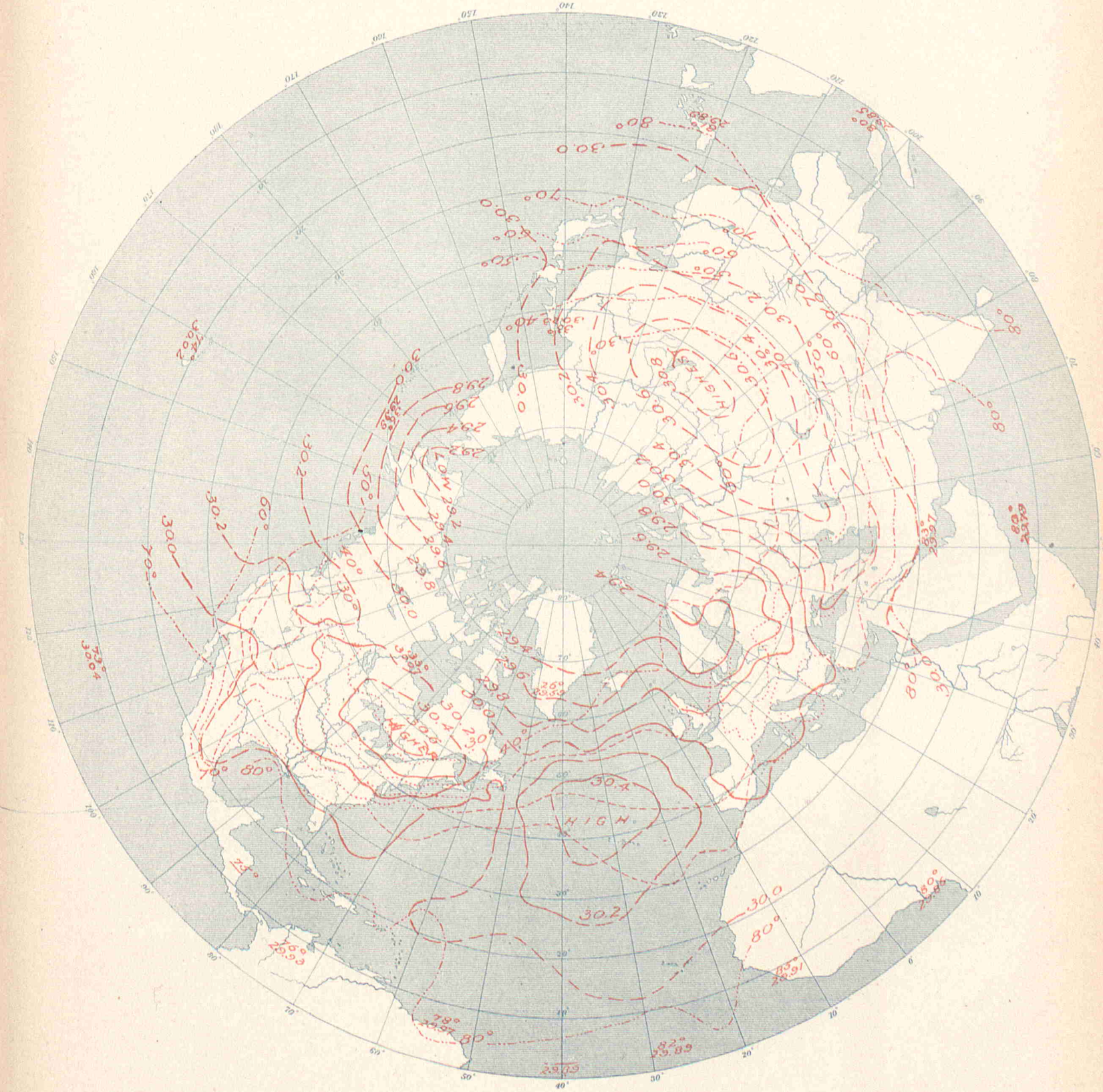
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.26	641.6	29.96	761.0	49.3	9.6	46	n.	3	1.3		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.13	765.3	30.14	765.5	64.0	17.8	100	ne.	13	5.8		4 k	5 k	e.	ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.91	658.1	30.21	767.3	32	0.0	81	sw.	1	0.4		0	0			0	0	clear	T. H. Jones.
Huron, Dakota	28.82	732.0	30.25	768.3	35	1.7	84	se.	4	1.8			10 s			0.06	1.5	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.52	749.8	30.32	770.1	40.6	4.8	67	ne.	2	0.9			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.00	762.0	30.03	762.7	70.0	21.1	94	ne.	11	4.9			10 ks		ne.	0	0	cloudy	I. A. Reed.
Jacksonville Florida	30.01	762.2	30.05	763.3	72.0	22.2	87	ne.	1	0.4			10 s		ne.	0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.72	754.9	30.39	771.9	32.5	0.3	88	ne.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.87	758.7	29.89	759.2	73	22.8	100	ne.	3	1.3			10 n		se.	5.68	144.3	light rain	A. W. Browne.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	60.9	16.1	88	ne.	26	11.6			10 ks		ne.	0.44	11.2	cloudy	Wesley Blake.
Knoxville, Tennessee	29.12	739.6	30.16	766.1	55.3	12.9	98	n.	7	3.1			10 n			0.08	2.0	light rain	J. A. Cody.
La Crosse, Wisconsin	29.63	752.6	30.42	772.7	30	— 1.1	78	nw.	2	0.9		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.42	747.3	30.32	770.1	43	6.1	83	se.	8	3.6		9 k	0	w.		0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.45	748.0	30.30	769.6	36.0	2.2	79	calm	0	0		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.90	759.4	30.22	767.6	50.0	10.0	86	ne.	5	2.2		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.05	763.3	50	10.0	74	ne.	3	1.3		5 ck	0	nw.		0	0	fair	T. S. Collins.
Louisville, Kentucky	29.70	754.4	30.27	768.8	43.8	6.6	75	ne.	12	5.4			10 s		ne.	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.53	750.0	30.22	767.6	52.0	11.1	72	e.	6	2.7			10 n		ne.	0.12	3.0	light rain	Jno. Healy.
Mackinaw City, Michigan	29.87	758.7	30.54	775.7	35.5	1.9	79	e.	17	7.6			10 s		e.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	63.0	17.2	97	ne.	7	3.1			10 s		ne.	0	0	cloudy	William Daly.
Maginnis, Fort, Montana	25.63	651.0	30.17	766.3	32	0.0	71	w.	8	3.6		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.80	756.9	30.54	775.7	28.0	— 2.2	77	calm	0	0			10 k		s.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.86	758.4	30.20	767.1	46	7.8	83	n.	8	3.6			10 s			inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.67	753.6	30.43	772.9	37.0	2.8	61	ne.	9	4.0			10 s		ne.	0	0	cloudy	W. Linn.
Mobile, Alabama	30.01	762.2	30.05	763.3	66	18.9	92	n.	9	4.0		0	6 s		ne.	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.84	757.9	30.08	764.0	65	18.3	93	ne.	3	1.3		4 cs	2 s			0.01	0.3	fair	Geo. E. Franklin.
Moorhead, Minnesota	29.51	744.5	30.33	770.4	29	— 1.7	88	se.	12	5.4			10 n		se.	0.09	2.3	light snow	H. Bessant.
Mt. Washington, N. H.	23.92	607.6	30.26	768.6	21.5	— 5.8	74	e.	11	4.9		7 cs	0			0.10	2.5	fair	S. W. Beall.
Nashville, Tennessee	29.63	752.6	30.21	767.3	50.0	10.0	93	n	6	2.7			10 n		n.	inap.	inap.	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.20	767.1	30.32	770.1	40	4.4	73	n.	16	7.2			10 s		n.	0.11	2.8	cloudy	J. H. Sherman.
New London, Connecticut	30.27	768.8	30.32	770.1	42	5.6	73	ne.	8	3.6			10 s		ne.	0.06	1.5	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.02	762.5	69.0	20.6	90	ne.	8	3.6		2 c	1 s		e.	0.11	2.8	clear	M. Herman.
New York, New York	30.14	765.5	30.32	770.1	42.1	5.6	74	n.	12	5.4			10 s			0.07	1.8	cloudy	H. J. Peurod.
Norfolk, Virginia	30.17	766.3	30.20	767.1	54.2	12.3	90	n.	11	4.9			10 s			0.14	3.6	cloudy	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.24	768.1	34.6	1.4	87	calm	0	0		0	7 s			0.20	5.1	fair	E. F. Brady.
Olympia, Washington T'y	30.21	767.3	30.25	768.3	44.0	6.7	93	ne.	1	0.4			10 s			0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.15	740.4	30.35	770.9	42.6	5.9	94	se.	6	2.7			10 n		s.	0.07	1.8	light rain	A. Pollak
Oswego, New York	30.12	765.0	30.45	773.4	32.0	0.0	68	ne.	17	7.6		0	2 k		ne.	0	0	clear	J. G. Linsley
Palestine, Texas	29.58	751.3	30.14	765.5	62.0	16.7	93	ne.	10	4.5			10 ks		e.	0.02	0.5	cloudy	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	67.1	19.5	90	n.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	30.21	767.3	30.31	769.9	43.5	6.4	83	n.	14	6.3			10 s		n.	0.11	2.8	clear	T. F. Townsend.
Pike's Peak, Colorado	17.83	452.9	30.11	764.8	13	—10.6	87	sw.	40	17.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.51	749.5	30.33	770.4	42.0	5.6	69	ne.	8	3.6		10 cs	0	ne.		0	0	cloudy	G. C Schaeffer.
Port Huron, Michigan	29.73	755.1	30.42	772.7	32.0	0.0	78	ne.	9	4.0		0	5 s			inap.	inap.	fair	M. H. Perry
Portland, Maine	30.34	770.6	30.40	772.1	36	2.2	61	n	9	4.0			10 n		n.	0.09	2.3	light snow	W. W. Eichelberger.
Portland, Oregon	30.16	766.1	30.23	767.8	45.0	7.2	93	nw.	4	1.8			10 s		n.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.83	630.7	29.99	761.7	39.0	3.9	72	s	4	1.8		3 c	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	30.27	768.8	30.30	769.6	42.2	5.7	80	n.	23	10.3			10 s		n.	0.28	7.1	cloudy	C. N. Kitchel.
Red Bluff, California	29.75	755.6	30.11	764.8	42	5.6	73	nw.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	71.0	21.7	90	e.	5	2.2		0	5 s		e	0	0	fair	Fred. Belford.
Rochester, N. Y.	29.79	756.7	30.46	773.7	35	1.7	66	ne.	17	7.6		9 k	0	ne.		inap.	inap.	cloudy	
Roseburg, Oregon	29.67	753.6	30.23	767.8	35.3	1.8	90	sw.	1	0.4			fg.			0	0	dense fog	J. J. Naury.
Sacramento, California	30.02	762.5	30.10	764.5	47.0	8.3	86	nw.	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.73	755.1	30.35	770.9	34.6	1.4	83	ne.	10	4.5		0	3 s			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	28.98	736.1	29.01	736.8	35.5	1.9	100	n.	4	1.8			10 n; fg			0.11	2.8	light rain	Fred. H. Clarke.
St. Paul, Minnesota	29.54	750.3	30.41	772.4	32.5	0.3	83	s.	7	3.1			10 s		se.	0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.43	747.5	30.33	770.4	22.5	— 5.3	88	se.	3	1.3		0	3 s			0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.74	653.8	30.14	765.5	38	3.3	46	calm	0	0		0	0			0	0	clear	J. Craig.
San Diego, California	29.99	761.7	30.06	763.5	53.3	11.8	93	nw.	1	0.4		0	fg.			0	0	clear	F. R. Day.
Sanford, Florida	29.94	760.5	29.99	761.7	69.5	20.8	92	ne.	4	1.8			10 n		ne.	0.13	3.3	light rain	J. B. Marbury.
Sandusky, Ohio	29.69	754.1	30.38	771.6	43	6.1	74	s.	6	2.7			10 ks		s.	0	0	threatening	B. F. Hough.
Sandy Hook, New Jersey	30.18	766.6	30.21	767.3	44.0	6.7	76	ne.	24	10.7			10 s			0.03	0.8	cloudy	B. A. Blundon
San Francisco, California	30.03	762.7	30.10	764.5	51.2	10.7	92	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.01	762.2	30.10	764.5	64.5	18.1	93	n.	4	1.8			10 ks; fg		ne.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.49	672.8	30.19	766.8	26	— 3.3	88	w	9	4.0		0	4 s			0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.85	758.2	30.09	764.3	62.0	16.7	73	ne.	8	3.6			10 s		ne.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattinly
Sitka, Alaska	29.88	758.9	29.94	760.5	49	9.4	82	e.	15	6.7			10 n		e.	0.50	12.7	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.74	755.4	30.22	767.6	50.2	10.1	86	e.	4	1.8		4 ck	0	s.		0	0	fair	J. B. Campbell.
Smithville North Carolina	30.07	763.8	30.11	764.8	64.8	18.2	93	ne.	4	1.8		7 cs	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.32	770.1	33	0.6	81	calm	0	0		7 k	0			0	0	fair	John F. Hemenway.
Springfield, Illinois	29.66	753.4	30.35	770.9	38	3.3	77	ne.	8	3.6			10 s		e.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.07	687.6	30.10	764.5	61.0	16.1	93	sw.	8	3.6			10 s			0	0	cloudy	Louis Dorman.
Tatoosh Id., Wash. Ter	30.18	766.6			38.0	3.3	100	e.	9	4.0			fg.			0	0	dense fog	R. Connor.
Thomas, Camp, Arizona	27.30	693.4	30.01	762.2	39	3.9	32	e.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.67	753.6	30.37	771.4	38	3.3	62	n.	8	3.6			10 s		n.	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.96	761.0	29.99	761.7	36	2.2	89	sw.	12	5.4			10 n		sw.	0.44	11.2	sleeting	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	62.8	17.1	87	n.	6	2.7			10 s		n.	0.08	2.0	cloudy	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.21	767.3	30.33	770.4	42.8	6.0	80	n.	6	2.7		4 k	2 s	nw.	nw.	0.16	4.1	clearing	T. B. Harrison.
West Las Animas, Colorado	26.20	665.5	30.13	765.3	42.5	5.8	80	n.	9	4.0			10 s		ne.	0	0	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.07	763.8	30.13	765.3	64.0	17.8	90	s.	3	1.3			10 s		se.	0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	28.94	735.1	30.26	768.6	37.8	3.2	91	s.	6	2.7			10 s		sw.	0.08	2.0	cloudy	E. H. Thompson.
Yuma, Arizona	29.78	756.4	29.93	760.2	57.1	13.9	60	ne.	1	0.4		1 c	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					76	24.4		w.			1	1 ck	1 ks		w.	0	0	clear	W. H. Jackson.
Bogota, U. S. O.	22.00	558.8			53.2	11.8	82	calm	0	0		4 cs	3 s	nw.		1.449	36.8		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.91	759.7	75.7	24.3	86	n.	1	0.4		3 cs	2 s		e.	0.06	1.5	fair	Robert Johnstone.
Paramaribo, S. A.	29.97	761.2	29.97	761.2	78	25.6	78	se.			2		4 k	e.		0	0	clear	Dr. C. J. Herman.
Puerto Berrio, U. S. O.	29.37	746.0	29.93	760.2	76	24.4	89	calm			0	6 ck	2 ks	calm	calm	0.06	1.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					75	23.9	89	se.			1		n		se.	0.88	22.4	cloudy	Earl Flint.
York Factory, B. A.	30.00	762.0	30.07	763.8	32.5	0.3	94	n.	18	8.0		2 c	0	nw.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 38° 20′, E. 26° 18′	30.09	764.3	70	21.1	66	nnw.			1									blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.83	757.7	72.5	22.5	83	wnw.			3		3	wnw.						d. clouds.
H. M. S. Himalaya, N. 46° 59′, W 15° 28′	30.19	766.8	55	12.8	81	nw.			4		4	nnw.				4	nnw.	d. clouds.
H. M. S. Iris, Alexandria, Egypt	30.06	763.5	75	23.9	81	nnw.			3		3	nnw.						d. clouds.
H. M. S. Inflexible, N. 39° 38′, E. 19° 57′	30.08	764.0	75	23.9	86	sse.			1		2	ese.						d. clouds.
H. M. S. Monarch, Mityiene, Turkey	30.11	764 8	67	19.4	64	nne.			1		0							blue sky.
H. M. S. Opal, Mouth of Niger river, W. Africa	29.86	758 4	80	26.7	87	sw.			1		6	calm						d. clouds.
H. M. S. Superb, N. 36° 07′, E. 18° 48′			70	21.1	100	ssw.			4		3	nnw.				2	ssw.	d. clouds.
H.P. M. S. Duoro, St. Thomas, W.I	29.86	758.5	81.5	27.5	88	ne			2		10		ne.			2	ne.	overcast.
U. S. Navy Yard, Portsmouth, N. H *	30.35	770.9	36	2.2	61	ne.	32	14.3			10		ne.	0.2	5.			cloudy.
U. S. S. Alliance, New York, N. Y	30.29	769.4	44	6.7	84	nne.			3		8		ne.	light	light			cloudy.
U. S. S. Jamestown, N. 38° 18′, W. 71° 51′	30.09	764.3	64	17.8	100	n.			6		10		n.			mod.	ne.	cloudy.
U. S. S. Kearsarge, Cartagena, Spain	29.86	758.4	70	21.1	80	sw.			3		5		sw.					fair.
U. S. S. Lancaster, Cartagena, Spain	29.86	758.4	68	20.0	95	sw			4		5		sw.			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I			45	7.2	70	nne.			6		10		e.			sm'h		cloudy.
U. S. S. Portsmouth, Cold Springs, N. Y	30.35	770.9	40	4.4	91	n.			5		10		n.					overcast.
U. S. S. Powhatan, Boston, Mass	30.37	771.4	39	3.9	82	nne.			2		10		nne.					overcast.
U.S. S. Quinnebaug, Leghorn, Italy	29.97	761.2	71	21.7	71	s.			3		2		s.					fair.
U. S. S. Saratoga, Poughkeepsie, N. Y	30.40	772.1	40	4.4	91	nne.			4–5		8		ne.	h'vy	h'vy	sm'h	ne.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I	29.93	760.2	82	27.8	79	e			2		2		e.	o	o	sm'h		fair.
U. S. S. Vandalia, off Cold Spring, N. Y†	30.33	770.4	40	4.4	82	nnw.			3		8							cloudy.
S. S. British Princess, N. 38° 52′, W. 72° 35′ †	30.16	766.1	58	14.4		n.			6		10		n.	o	o	high	cross	overcast.
S. S. Lord Clive, N. 49° 02′, W. 38° 57′						sw.			4		5		wsw.	o	c	mod.	nw.	fine.
S. S. Lord Gough, N. 50° 58′, W. 25° 43′	30.22	767.6	54	12.2		w.			5		10		w.	o	o	mod.	nw.	squally.
S. S. Ohio, off Kinsale, Ireland			50	10.0	93	w.			6		10		w.	12 h'r	12 h'r			cloudy.
S. S. Circassian, N. 49° 02′, W. 61° 37′	30.28	769.1	35	1.7	80	nw.			6		6		n.			5	n.	d. clouds.
S. S. Nova Scotian, Halifax, N. S			49	9.4		nne.			5		10		n.					gloomy.
S. S. Prussian, N. 53° 55′ W. 26° 17′	30.14	765.5	52	11.1		nnw.			4		10		nnw.	o	o	long	nnw.	cloudy.
S. S. Alvo, N. 25° 10′, W. 74° 20′*	29.96	761.0	79	26.1		e.			6		5		ene.	o	o	long	nne.	fine.
S. S. Andes, New York, N. Y*†	30.25	768.3				n.			3				n.			sm'h		cloudy.
S. S. Ailsa, Colon, U.S.C			75	23.9	95	e.			1		2		calm	o	o	sm'h		fine.
S. S. Avilla, N. 30° 44′, W. 69° 33′			72	22.2		ne.			4		3		ne.	o	o		ene.	
S. S. Assyria, N 54° 49′, W. 19° 19′	30.11	764.8	53	11.7	?	wsw.			3		5		wsw.	o	o	mod.	nw.	fine.
S. S. Devonia, N. 42° 00′, W. 63° 25′*†	30.02	762.5	53	11.7		nne.			6		10		nne.			mod.	nne.	cloudy.
S. S. Dorian, N. 42° 00′, W. 46° 30′	30.29	769.4	70	21.1		ese.			6		2			o	o	mod	se.	fine.
S. S. Furnesia, N. 49° 22′, W. 31° 25′†	30.44	773.2	67?	19.4?		nw.			3		10		nw.	o	o	sli't	ene.	overcast.
S. S. Carroll, N. 43° 06′, W. 67° 56′*†	30.32	770.1	46	7.8	100	ne.			6		10		ne.	rain	rain		ne.	rain squalls
S. S. Llandaff City, New York, N. Y†	30.36	771.1	42	5.6		nne.			6		7		ne.	o	o			cloudy.
S. S. Cephalonia, N. 50° 05′, W. 26° 22′	30.32	770.1	57	13.9	81	w.			4		5		w.	4 h'r	4 h'r	sli't	wnw.	d. clouds.
S. S. Bothnia, N. 42° 16′, W. 49° 43′			66	18.9	100	se.			6		8		sse.	o	o	mod.	se.	gloomy.
S. S. Samaria, N. 42° 13′, W. 66° 40′ *	30.08	764.0	49	9.4		n.			6		10			12 h'r	12 h'r	high	n.	cloudy.
S. S. France, N. 49° 50′, W. 7° 28′ *†	30.02	762.5	51.8	11		wnw.			2		6		w.	o	o	h'vy	w.	fair.
S. S. Arizona, N. 50° 21′, W. 31° 56′	30.40	772.1	54	12.2		w.			4		10		nw.	o	o	mod.	nw.	overcast.
S. S. Wyoming, N. 45° 00′, W. 54° 06′	29.92	760.0	55	12.8		sse.			6		fg			4 h'r	4 h'r	mod.	se.	foggy.
S. S. Bohemia, N. 49° 12′, W. 25° 43′*†	30.38	771.6				sw.			3–4		9		sw.	3 h'r	3 h'r	r'gh	nw.	overcast.
S. S. Gellert, Havre, France	29.98	761.5	59	15.0	88	sw.			4		4?		nw.	o	o			covered?
S. S. Silesia, N. 49° —′, W. 29° —′	30.44	773.2	54	12.2		nw.			4		10		wnw.	o	o	long	n.	overcast.
S. S. Westphalia, N. 42° 28′, W. 59° 26′			57	13.9	87	var.			5–6		10		n.	8 h'r	8 h'r	r'gh	var.	raining.
S. S. Bulgarian, N. 43° 30′, W. 62° 00′ *	30.02	762.5				nnw.			6		10		nnw.	8 h'r	8 h'r	mod.	n	gale.
S. S. Archimedes, N. 30° 56′, W. 16° 00′	30.11	764.8				ne.			2		0			o	o	light	n.	fine.
S. S. Hevelius, Liverpool, Eng†	29.87	758.7	50	10.0		w.			3				w.	10 h'r	10 h'r			clear.
S. S. Rosse, N. 8° 44′, W. 27° 11′ *	29.90	759.4	81	27.2		sse.			3		8		se.	2½ hr	2½ hr	sm'h		overcast.
S. S. Sirius, N. 0° 30′, W. 41° 01′	29.89	759.2				ese.			4		0			o	o	mod.	ese.	clear.
S. S. Rio Grande, N. 26° 40′, W. 80° 05′†	29.97	761.2	79	26.1		ese.			5		10		se.	1 h'r	1 h'r	sm'h	ese.	gloomy.
S. S. Chalmette, Algiers, La†	30.01	762.2	69	20.6		e.			2		1			1 h'r	1 h'r			clear.
S. S. New York, N. 28° 20′, W. 80° 15′*†.	29.94	760 5	75	23.9		ese.			6		10		se.	o	o	rg'h	se.	cloudy.
S. S. Alleghany, Vineyard Sound, Mass†	30.29	769.4	44	6.7		ne.			6		10		e	o	o	long		cloudy.
S. S. Archimede, N. 37° 41′ W. 57° 17′†	29.89	759.2	78	25.6		sse.			3		4		se.	1 h'r	1 h'r	h'vy	se.	fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	29.90	759.4	84	26.9		ne.			2		2		ne	o	o	sm'h		fine.
S. S. Cienfuegos, Cienfuegos, Cuba *	29.89	759 2	76	24.4		nne.			1		2			½ h'r	½ h'r			fine.
S. S. Egypt, N. 40° 41′, W. 68° 53′	30.19	766.8	50	10.0		nne.			4		10		nne.	o	o	mod	n.	cloudy.
S. S. England, N. 40° 27′, W. 67° 54′	30.13	765.3				nne			6		10		nne.	sh'rs	sh'rs	mod.	n.	overcast
S. S. Erin, N. 47° 27′, W. 32° 35′			58	14.4		w.			3		4		w	6 h'r	6 h'r	long	nw.	fair.
S. S. The Queen, N. 50° 08′, W. 25° 39′	30.22	767.6	50	10.0		wnw.			4		8		wnw.	24 h'r	24 h'r	mod.	nw.	showery.
S. S. America, N. 39° 20′ W. 64° 50′*	29.83	757.7	67.0	19.4	79	ne.			0		6		ne.	o	o	long	ne.	fair.
S. S. Donau, N. 40° 15′, W. 70° 02′	30.21	767.3				nne.			6		9		nne.	3 h'r	3 h'r	r'gh	nne.	rainy.
S. S. Habsburg, N. 49° 26′, W. 31° 45′	30.46	773.7				wnw.			5		6		wnw	o	o	mod	wnw.	fair.
S. S. Orinoco, N. 32° 35′, W. 64° 54′			70	21.1		nw.			4		7		nw.	4 h'r	4 h'r	h'vy	var.	rainy.
S. S. Oder, N. 49° 40′, W. 31° 23′	30.43	772.9	55.4	13.0		w.			3–4		9		wsw.	1 h'r	1 h'r	mod.	nw.	cloudy.
S. S. Ohio, Baltimore, Md	30.35	770.9				ne.			2		8		ne.	5 h'r	5 h'r			cloudy.
S. S. Salier, N. 49° 31′, W. 21° 23′*	30.32	770.1	52.2	11.2		wnw.			3		7		wnw.	1½ h'r	1½ h'r	mod.	n.	raining.
S. S. Strassburg, N. 49° 05′, W. 31° 05′	30.44	773.2	56.0	13.3	63	w.			3–4		9		w.	o	o	4	nnw	cloudy.
S. S. Werra, N. 49° 02′, W 41° 04′			56.3	13.5		wsw.			4–5		5		wsw.	o	o	mod.	wsw.	fair.
S. S. Weser, N. 32° 08′ W. 76° 51′	30.13	765.3	78.8	26.0		ene.			4		1		n.	o	o	long	ne.	clear.
S. S. Belgenland, N. 48° 07′, W. 32° 13′						nw.			5		10		nw.	o	o	long	n.	cloudy.
S. S. Rhyneland, N. 50° 20′, W. 0° 50′	29.89	759.2	55	12.8		w.			5		3?		w.	o	o	mod.	w.	cloudy.?
S. S. Pennland, Antwerp, Belgium			50	10.0	79	sw.			3		0			2 h'r	2 h'r			clear.
S. S. Switzerland, N. 40° 28′, W. 68° 49′*†	30.15	765.8				nne.			4		10		nne.	2 h'r	2 h'r	r'gh	ne.	cloudy.
S.S. Waesland, New York N. Y	30.31	769.9	45	7.2		n.			4		10		n.	5 h'r	5 h'r			overcast.
S. S. P. Caland, N. 50° 30′, W. 1° 50′	29.87	758.7	57.6	14.2	92	wnw.			4		3		nw.			3	wnw.	clear.
S. S. Leerdam, N. 40° 30′, W. 72° 55′			53.6	12.0	90	nne.			5		7		ene.	o	o	4	nne.	hazy.
S. S. Zaandam, N. 49° 21′ W. 14° —′	30.18	766.6	60.1	15.6	91	n.			4		5		nw.	o	o	mod.	wnw.	
S. S. Caracas, La Guayra, Venezuela*†	29.90	759.4	81	27.2	85	calm			0		0			o	o	light	ne.	clear
S. S. W. A. Scholten, N. 44° 06′, W. 54° 28′	29.94	760.5	59.0	15.0	78	se.			5		10		sse.	15 h'r	15 h'r			raining.
S. S. State of Nebraska, N. 55° 15′ W. 9° 55′ *†	29.93	760.2	48	8.9		n.			5–6		5		nne.	sh'rs	sh'rs	mod.	n.	fair.
S. S. State of Alabama, N. 50° 52′, W. 21° 06′			54	12.2		nw.			5		5		nw.	shr's	shr's	h'vy	nw.	showery.
S. S. Thingvalla, N. 52° 05′, W. 40° 41′ †	30.26	768.6	55.4	13.0		ssw.			3		4		ssw.	o	o	cross	sw.	fair.
S. S. Romano, N. 40° 59′, W. 49° 45′			72	22.2		sse.			6		9		se.	rain	rain	mod.	se.	
S. S. Salerno, N. 44° 20′, W. 56° 32′*†	30.00	762.0	58	14.4		s.			2		10		sw.	0.5	13.	long	se.	foggy.
S. S. Ontario, Belle Isle Light, N. F	30.29	769.4	35	1.7		nne.			5		8		nne.	3 h'r	3 h'r	sm'h	n.	cloudy.
S. S. Oregon, N. 56° 27′, W. 21° 04′	29.98	761.5	47	8.3		wsw.			2		5		wsw.			mod	wnw.	fine.
S. S. Quebec, N. 55° 55′, W. 35° 08′	29.85	758.2	46	7.8		sw.			6		10		sw.	o	o	r'gh	sw.	overcast.
S. S. Texas, N. 51° 03′, W. 6° 18 *†	30.05?	763.3?	58	14.4	88	wnw			2		2		nw.	2 h'r	2 h'r	sm'h		clear.
S. S. Lake Huron, N. 49° 08′, W. 66° 50′	30.44	773.2	29	—1.7		n.			4		0			7 h'r	7 h'r	sm'h	ne.	clear.
S. S. Olbers, N. 40° 16′ W. 69° 23′	30.16	766.1	52.5	11.4	100	nne.			6		10		nne.	3 h'r	3 h'r	r'gh	var.	squally.
S. S. Daniel Steinmann, N. 40° 28′, W. 71° 12′†	30.18	766.6	56	13.3		nne.			6		10			o	o	r'gh	ne.	threatening.
S. S. Plantyn, N. 49° 57′, W. 6° 54′									4		4		w.	¾ h'r	¾ h'r	mod.	nw.	
S S. Celtic, Liverpool, Eng			52	11.1		nw.			5		8		w.	16 h'r	16 h'r	sm'h		squally.
S. S. Germanic, N 50° 28′, W. 20° 07′ *†	30.28	769.1	55	12.8		nnw.			4		4		nnw.	o	o	long	nnw.	fair.
S. S. Republic, N. 49° 47′, W. 35° 15′ *†	30.38	771.6	55	12.8		nw.			4		5		nw.	sh'rs	sh'rs	mod.	nw.	fair
S. S. Iowa, off Mine Head, Ireland †	29.88	758.9	53	11.7		nnw.			4		2		nnw.	o	o	sm'h		clear.
S. S. Assyrian Monarch, N. 45° 07′, W. 49° 50′	30.25	768.3				sse.			4		10			4 h'r	4 h'r	sm'h		
Bk. Arda, N. 21° 19′, W. 50° 41′						e.			2		4		e.	o	o	mod.	e.	clear
Bk. Ariadne, N. 55° 12′, E. 16° 38′			49	9.4	93	wsw.			6		9		wsw.	2 h'r	2 h'r	cross	wsw.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Bg. Abbie Clifford, St. Pierre, Martinique†	29.91	759.7	81	27.2		calm			0		2		sse.	2½h'r	2½h'r			fine.
Schr. Arthur Burton, Charleston, S C.†	30.11	764.8				ne.			1		2		calm	0	0	sm'h		clear
Schr. Abbie H. Gheen, Baltimore, Md.†	30.34	770.6	56	13.3		nne.			2									clear.
S. S. Antonio Lopez, Cadiz, Spain *	30.00	762.0	64.5	18.1	83	nw.			4		7			0	0			fair.
Bg. Alcira, N. 19° 55′, W. 66° 37′	29.99	761.7	80	26.7		nne.			4		2		nne.	0	0	cross	var.	clear.
Schr. Adda Doane, Demerara, British Guiana*†	29.92	760.0				sse.			1		2		se.	0	0			clear.
Bg. Belle of the Bay, N. 25° 58′. W. 89° 49′†	29.89	759.2				ne.			6		5		ne.	1 h'r	1 h'r	h'vy	ene.	fair.
S. S. Benledi, N. 50° 45′, E. 0° 30′*	29.87	758.7	57	13.9	63	wnw.			3–4		8		wnw.	0	0	sm'h		fine.
Bk. Ceylon, N. 2° 10′, W. 29° 11′†	29.89	759.2	82	27.8	87	se.			5		2		sse.	0	0	r'gh	se.	clear.
Schr. Clotilde, N. 24° 32′, W. 85° 40′ †	29.86	758.4	80	26.7		ne.			4		10		ne.	8 h'r	8 h'r	r'gh	ne.	threatening.
Schr. C. R. Flint, N. 11° 45′, W. 61° 41′†	30.00	762.0	84	28.9		se.			2		4		ese.	0	0	mod.	ene.	fair.
S. Carondelet, N. 36° 05′, W. 62° 32′*†	29.92	760.0				calm			0		1			0	0	mod.	ne	clear.
S. S. D. J. Foley, N. 25° 49′, W. 75° 00′*†	30.04	763.0	76	24.4	82	ene.			3		2		ene.	0	0	long	ne.	clear.
S. Dynomene, N. 3° 25′, W. 22° 28′	29.89	759.2	80	26.7	91	se.			3		7			0	0	mod.	se.	misty.
S. E. J. Spicer, N. 40° 55′, W. 66° 23′	30.06	763.5	56	13.3	94	n.			6		10		nne.	18 h'r	18 h'r	mod.	ne.	cloudy.
Bk. E. D. Bigelow, N. 28° 35′, W. 93° 40′ †	29.96	761.0	80	26.7		nne.			4		3		ne.	2 h'r	2 h'r	mod.	nne.	fair.
S. Festina Lente, N. 55° 30′, W. 5° 00′	29.77	756.1	51	10.6		n.			5		3		n.	2 h'r	2 h'r	sm'h		fair.
U. S. Fish Com S.S. Fish Hawk, Brooklyn, N.Y.†	30.28	769.1	43	6.1	83	n			3		10		ne.	0	0			cloudy.
Bk. Galeon, N. 23° 55′, W. 66° 25′ †	29.95	760.7	78	25.6		n.			2		0			0	0	long	nnw.	blue sky
Bk. Hattie G. McFarland, N. 22° 58′, W. 61° 35′†	30.02	762.5	80	26.7		ene.			2		5		e.	3 h'r	3 h'r	long	ne.	fine.
S. Hedwig, N. 33° 03′, W. 75° 32′	30.11	764.8	71.6	22.0	96	e.			3		10		var.	0	0	3	ene.	overcast.
Bk. Heinrich & Tonio, N. 43° 40′, W. 23° 50′†	30.46	773.7	58.5	14.7		n.			3		8		n.	3 h'r	3 h'r		n.	cloudy.
Schr. Isabel Alberto, N. 31° 26′, W. 79° 50′ †	30.16	766.1				e.			3		10		e.	sh'rs	sh'rs	high	ene	cloudy.
Schr. Jennie N. Huddell, N. 33° 35′, W. 77° 35′†	30.13	765.3	74	23.3	76	ene.			2		2		e.	0	0	long	ese.	clear
Bk. John H. Pearson, N. 22° 27′, W. 25° 18′						ne.			4				nne.	0	0	long	ne.	cloudy.
Schr. John Bracewell, Dover, N. H.						nne.			4		5		n.	6 h'r	6 h'r			hailing.
Bg. Josefa, N. 43° 52′, W. 61° 55′†	30.07	763.8				ene.			7		10		ne.	6 h'r	6 h'r	r'gh	ne.	raining.
Bkt. John Balzley, N. 40° 36′, W. 68° 50′*†	30.18	766.6				ne.			5		10		ne.	light	light	cross	var.	threatening.
Bg. Lilian, N. 38° 10′, W. 74° 30′†	30.18	766.6	57	13.9		ne.			6		10		ne.	½ h'r	½ h'r	r'gh	var.	cloudy.
Bg. L. & W. Armstrong, N. 37° 29′, W. 71° 40′ *†	30.06	763.5				ne.			1		6		ne.	½ h'r	½ h'r	sm'h	ese.	fair.
S. S. Madrid, N. 37° 16′, E. 7° 25′ †	29.90	759.4	74	23.3	95	ese.			2		8		sw.	3 h'r	3 h'r	sm'h		cloudy.
Bk. Matilda C. Smith, Brouwershaven, Netherlands*†	29.85	758.2				wnw.			6		4		wnw.	0	0	r'gh	wnw.	clearing.
Schr. Minnie A. Bonsall, Mayport, Fla.†	30.08	764.0	76	24.4		se.			5				s.	0	0	sm'h	se.	fair.
Bk. Matthias, N. 43° 03′, W. 41° 15′*†	30.49	774.4	70.0	21.1		ese.			4–5		6		ese.	2 h'r	2 h'r	3	e.	squally
Schr. Norena, N. 23° 50′, W. 63° 00′ *†	30.05	763.3				n.			2		2		ene.	0	0	mod.	var.	
Bk. National Eagle, N. 38° 37′, E 9° 55′						nw.			4		5		nw.	sq 'lls	sq 'lls	sm'h		fair.
Schr. Rollin Sanford, N. 30° 00′, W. 80° 25′†	30.04	763.0				e.			4		5		ese.	0	0	long	se.	fair.
Bg. Rising Sun, N. 13° 30′, W. 60° 30′†	29.97	761.2	82	27.8		sw.			4		2		sw.	0	0	long	sw.	clear.
Bk. Rosalie, N. 5° 47′, W. 26° 51′*†	29.87	758.7				sse.			4		3		sse.	2 h'r	2 h'r	mod.	sse.	clear.
Bk. Saga, N. 54° 10′, E. 6° 43′*†	29.58	751.3	54	12.2		wnw.			7–8		5		w.	5 h'r	5 h'r	r'gh	wnw.	fair.
S. Salisbury, N. 36° 06′, W. 1° 04′	29.83	757.6	72.1	22.3	87	wsw.			5		4 k			0	0	mod.		fair.
Bgt. Sunlight, N. 30° 44′, W. 61° 11′†	29.83	757.7				nw.			3		3		wnw.	2 h'r	2 h'r	mod.	e.	clear.
Bk. Samuel B. Hale, N. 21° 45′, W. 32° 00′ *†	30.15	765.8				e.			3				e.	0	0	short	e.	fine.
Bk. Sunbeam, Rotterdam, Holland †	29.84	757.9	53	11.7	80	wsw.			4		4		wsw.	0	0			fair.
S. St. Francis, N. 32° 10′, W. 40° 28′ *†	30.36	771.1	72	22.2		ene.			3		10		e.	6 h'r	6 h'r	long	ne.	rainy.
Bk. Southern Belle, N. 30° 35′, W. 22° 55′†	30.17	766.3	68	20.0		ese.			4		5			0	0	long	nw.	
Schr. Walter L. Plummer, N. 23° 27′, W. 50° 01′ *†	30.02	762.5				se.			4		5		sse.			mod.	se	fair.
Bk. Pilgrim, N. 2° 26′, W. 36° 00′ *†	29.90	759.4				se.			4		3		se.	0	0	mod.	se.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.73	755.1	55.2	12.9	91	sse.			3–5		9	s.				3	sse.	raining.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.08	764.0	67	19.4	100	sse.			1		3	sse.						blue sky
H. M. S. Orontes, S. 8° 45′, E. 5° 15′	29.90	759.4	68	20.0	84	s.			1		8					5	sse.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.81	757.2	53.2	11.8	96	sse.			2–4		10							raining.
U. S. S. Brooklyn, S. 32° 23′. W. 11° 53′*†	30.28	769.1	64	17.8	89	ese.	12	5.4			2		calm	0	0	sm'h		fair.
U. S. S. Nipsic, Montevideo, Uruguay *	29.79	756.7	54	12.2	93	se.			3		10		calm			mod.		
Bk. Alpheus Marshall, S. 18° 12′, W 23° 28′ *†	30.05	763.3	72	22.2	95	se.			5		10		se.	3 h'r	3 h'r	r'gh	se.	cloudy
Bk. Bore, S. 29° 53′, E. 10° 10′*†	30.59	777.0	68	20 0		se.			4		9		sse.	0	0	sm'h	s	cloudy
S. David Crocket, S. 17° 20′, W. 24° 47′ *	30.03	762.7	75	23.9	84	e.			6		5		ese.	8 h'r	8 h'r	mod.	ese.	raining.
Bk. E. L. Pettingill, S. 57° 18′, W. 64° 50′*†	29.20	741.7	30	— 1.1		sw.			9		10		snow	snow	snow	h'vy	wsw.	cloudy.
Bg. John Wesley, Natal, Brazil*†	29.85	758.2	83	28.3		se.			3		4		se.	¼ h'r	¼ h'r			hazy.
Bkt. Louise Adelaide, S. 34° 50′, W. 55° 15′ †	30.01	762.2				sse.			3				sw.	15 h'r	15 h'r	chop	se.	rainy.
S. S. Mendoza, S. 0° 13′, W. 39° 19′†	30.00	762.0				se.			3		8		se.	0	0	sm'h	sse.	
Bgt. Willie, Montevideo, Uruguay*†	29.76	755.9	56	13.3		sse.			3		10			15 h'r	15 h'r	short	s.	rainy.
Bk. Childwall, S. 35° 09′, W. 31° 04′ *	30.11	764.8	66	18.9		ne.			5		8		e.	0	0	sm'h	ne.	fair.
Bk. Achille F. S. 4° —′, W. 35° 15′†	29.96	761.0	82	27.8		ese.			5		2		se.	0	0	mod.	se.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.99	761.7	72	22.2	80	calm			0		2	n.						blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.85	758.2	80	26.7	91	nw.			1		8							d. clouds.
H. M. S. Flying Fish, N. 31° 47′, E. 127° 06′	30.13	765.3	70	21.1	80	calm			0		2							blue sky.
H. M. S. Magpie, N. 0° 27′, E. 104° 45′	29.85	758.2	81.7	27.6	83	calm			0		2							blue sky.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.08	764.0	75	23.9		ne.			2		6							d. clouds
H. P. M. S. Tamega, Macao, China	30.01	762.3	81.5	27.5	81	e.			4		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.10	764.5	68.5	20.3	87	calm			0		0			light	light			clear.
U. S. S. Essex, Nagasaki, Japan	30.11	764.8	70	21.1	90	nne.			2		2							clear.
U. S. S. Hartford, N. 10° 00′, W. 85° 50′ *	29.73	755.1	79	26.1	86	sse.			3		5		var.	3 h'r	3 h'r	sm'h	var.	fair.
U. S. S. Juniata, Canton, China	29.98	761.5	79	26.1	91	sse			2		0			0	0			clear
U. S. S. Monocacy, N. 37° 28′, E 126° 36′	30.18	766.6	63	17.2	67	wnw.			5		5		wnw.					fair.
U. S. S. Pensacola, Yokohama, Japan*	29.98	761.5	71	21.7	95	nnw.			4		2			0	0			clear.
U. S. S. Ranger, Mare Island, Cal	30.14	765.5	52	11.1	80	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.04	763.0	70	21.1	90	n.			1		2		n.	0	0			clear.
S. S. City of Chester, off Point Arena, Calf†	30.12	765.0	52	11.1	100	nw.			2		5					light	nw.	
S. S. Columbia, Willamette River, Oregon†	30.21	767.3	46	7.8	84	n.			1		10		n.					cloudy.
S. S. Oregon, Columbia River, Oregon†	30.23	767.8	43	6.1	94	calm			0									clear.
S. S. Ancon, Point Carmel, Cal.†	30.06	763.5	53	11.7	87	nw.			6		0			0	0	light	nw.	foggy.
S. S. Dakota, Tacoma, Wash. Ter			55	12.8	68	baff					10			0	0	mod.	s.	foggy.
S. S. Orizaba, N. 35° 10′, W. 120° 47′ *†	30.06	763.5	57	13.9	100	nw.			3		0			0	0	sm'h	nw.	clear.
S. S. Victoria, Nanaimo, B. C.†	30.29	769.4	38	3.3	94	calm			0		0							clear.
S. S. City of Pekin, Yokohama, Japan†	30.07	763.8	72	22.2	80	se.			1		8		e.	0	0			fair.
S. S. City of Sydney, N. 18° 00′, W. 158° 40′*†	30.02	762.5	74	23.3	72	ne.			3	8 ck		ne.				light	ne.	cloudy
S. S. City of Tokio, N. 37° 42′, W. 127° 40′			58	14.4	52	ne.			3		7		ne.	0	0	small	e.	fine.
S. S. Colima, N. 7° 30′, W. 82° 20′ †	29.88	758.9	77	25.0	90	ssw.			5		10		s.	0.85	21.6	mod.	sw.	overcast.
S. S. San Blas, Acapulco, Mexico †	29.83	757.7	80	26.7		calm			0		0			0	0			clear.
S. S. San Juan, N. 23° 20′, W. 106° 21′			78	25.6		ene.			2	2 c		e.		0	0	light	ne.	clear.
S. S. Zealandia, N. 36° 59′, W. 124° 46′	30.18	766.6	58	14.4	70	nw.			4		10			0	0	r'gh	wnw.	overcast.
S. S. Alameda, N. 23° 31′, W. 150° 31′ †	30.06	763.5	71	21.7		ssw.			2		7		sw.	0	0	light	ene.	cloudy.
S. Parker M. Whitmore, N 20° 30′, W. 123° 40′ *†	29.87	758.7	69	20.6		n.			6		10		nne.	3 h'r	3 h'r	short	var.	rainy.
S. S. Strathleven, N. 16° 16′, E. 113° 08′	29.88	758.9	81.0	27.2	83	e.			4		1		e.	2 h'r	2 h'r	3	e.	blue sky.
S. Sovereign of the Seas, N. 7° 59′, W. 118° 16′ *†	30.04	763.0	79	26.1	79	s.			3		3			0	0	short	s.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 05′, E. 156° 09′	29.86	758.4	79.3	26.3	87	ese.			2		8					2	se.	squally.
H. M. S. Nelson, Sydney, N. S. W.	29.90	759.4	58	14.4	88	calm			0		0							blue sky.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific—Continued.																		
U. S. S. Iroquois, Callao, Peru	30.01	762.2	61	16.1	94	nnw.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.10	764.5	56	13.3	75	nw.			1		0							clear.
U. S. S. Onward, Callao, Peru*†	30.11	764.8	61	16.1	88	nw.			1		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, S. 32° 34′, W. 71° 41′*	30.14	765.5	56	13.3	94	sse.			2		0					mod.	s.	clear.
S. S. Australia, Sydney, N. S. W.	30.20	767.1	63	17.2	94	wnw.			4		4		wnw.	0	0			hazy.
S. S City of New York, Sydney, N S. W†	29.88	758.9	68	20.0	90	n.			2		8		n.	1 h'r	1 h'r			cloudy.
S. E. B. Sutton, S. 17° 30′, W. 129° 00′*†	30.06	763.5	77	25.0	86	ene.			5		2			0	0	h'vy	se.	clear.
S. Armenia, S. 48° 00′, W 106° 14′*	29.57	751.1	49	9.4	93	wnw.			5		10		wnw.	2 h'r	2 h'r	mod.	wnw.	misty.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.11	764.8	66	18.9		se			5		10		se.			long	se.	overcast
S. Storm King, S. 22° 40′, W. 125° 15′*†	30.16	766.1				e.			5		2		e.	½ h'r	½ h'r	long	var.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.89	759.2	79	26.1	86	ene.			2		3	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.89	759.2	80	26.7	91	e.			1		1	ene.				1	ene.	blue sky.
H. M S. Woodlark, Bushir, Persia	29.97	761.2	82.5	28.1	63	sw.			5		b	se.						showery.
S. Frank N. Thayer, S. 35° 52′, E. 20° 02′*†	30.05	763.3	69	20.6	65	wsw.			6		3 ks		wsw.	0	0	mod.	sw.	d. clouds
Bk. Great Surgeon, S. 28° 07′ E. 100° 31′*†	30.30	769.6	65	18.3		sw.			3		10		sw.	0	0	sm'h	sw.	cloudy.
Bk. Mohican, S. 41° 45′, E. 25° 35′	29.55	750.6	60	15.6		w.			5		7		wnw.	2 h'r	2 h'r	long	wnw.	cloudy.
S. S. Radnorshire, N. 23° 50′, E. 36° 50′*†	29.95	760.7				n.			6		2		nnw.	0	0	rg'h	nnw.	fine.
S. S. Galatia, N. 12° 51′, E. 51° 49′†	29.79	756.7	80	26.7	96	sse.			3		0			0	0	mod.	sse.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 22, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.4	69.8	21.0	78	n.			1		0			0	0	clear	Roziere.
Algiers			29.91	759.8	71.6	22.0	72	w.			6		0			0	0	clear	Thève.
La Calle			29.91	759.6	73.4	23.0	78	nnw.			1		2			0	0	fair	Fonfrède.
Tunis			29.95	760.8	78.1	25.6	46	n.			3		0			0	0	clear	Delord.
Saida			30.02	762.4															Pérès.
Tebessa					66.2	19.0	72	ssw.			3		0			0	0	clear	St. Martin.
Geriville					71.6	22.0	29	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.02	762.4	74.5	23.6	52	nw.			1		0			0.087	2.2	clear	Abraham.
Biskra			30.00	761.9	82.0	27.8	35	nw.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.12	765.0	57.8	14.3	74	n.	5	2.2			0			0.013	0.3	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.99	761.7	30.08	764.0	54.9	12.7	89	sse.	2	0.9			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	743.9	29.83	757.6	60.3	15.7	61	se.			1		9			0.657	16.7		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	741.0	29.95	760.6	50.0	10.0	67	e.	9.4	4.2			10			0.035	0.9		Dr. Wierzbiski
Eperies	29.06	738.0	29.93	760.1	56.5	13.6	70	calm			0	cs	6 s			0	0		Julius Mikolik.
Gratz	28.64	727.4	29.89	759.2	49.8	9.9	80	s.			1		10			0.591	15.0		Andreas Rospini.
Hermannstadt	28.58	725.9	29.97	761.1	68.4	20.2	54	s.			3		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.52	724.4	29.88	758.9	45.1	7.3	85	w.			2		10			0.193	4.9	dull	The Staff.
Lemberg	29.01	736.8	30.00	761.9	51.3	10.7	82	se.			1		10			0.004	0.1		Dr. T. Stanecki.
Pola	29.73	755.2	29.84	758.0	67.1	19.5	87	sse.			6		5			0	0		I. R. Hydrographic Office.
Szathmar	29.46	748.2	29.91	759.6	68.5	20.3	54	s.			4		1			0	0		Joseph Midlinszky, S. J
Szegedin	29.64	752.8	29.95	760.7	69.6	20.9	49	s.			1		0			0	0		Karl Stanzel.
Trieste	29.76	755.8	29.85	758.3	67.5	19.7	68	s.			3		10			0	0		Royal Academy.
Vienna	29.13	740.0	29.85	758.2	51.8	11.0	70	se.			3		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.69	754.1	29.79	756.7	44.4	6.9	70	s.	17	7.6			7			0.015	0.4	d. clouds	W. Boswell.
Armagh, Observatory	29.66	753.4	29.91	759.7	44.0	6.7	84	s.	13	5.8			10					overcast	S. Call.
Bidston, Liverpool Obs'y			30.00	762.0	49.0	9.4	58	sw.	9	4.0			4					d. clouds	John Hartnup.
Bolton, Sharples	29.46	748.3	30.00	762.0	44.2	6.8	74	ssw.	6	2.7			10					foggy	Thomas Mackereth.
Bradford, Yorkshire	29.57	751.1	29.97	761.2	44.1	6.7	68	n.			2		5			0.21	5.3	d. clouds	M. Landsborough & Preston.
Cardington	29.91	759.7	30.02	762.5	49.0	9.4	73	nw.			0.6		8					overcast	John McLaren.
Chatham, School M. E.	29.85	758.2	30.02	762.5	46.3	7.9	84	calm			0		5			blank	blank	d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.89	759.2	30.12	765.0	50.7	10.4	53	wnw.			1		7					d. clouds	The Staff.
Fort Napier, Natal	27.57	700.3	29.80	756.9	71.2	21.8	78	e.			1		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.70	754.4	29.93	760.2	87	30.6	88	se.			1		1					raining	J. W. Smith.
Galway, Queen's College	29.87	758.7	29.91	759.7	48	8.9	92	sw.			3		9			0.05	1.3	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.07	763.8	30.12	765.0	66.0	18.9	89	nw.			3		1					blue sky	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.64	752.8	29.84	757.9	46.2	7.9	73	ssw.			4		10 k					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.86	758.4	30.04	763.0	50.0	10.0	68	n.			1		8					d. clouds	The Staff.
Guernsey	29.81	757.2	30.11	764.8	51.5	10.8	65	nw.			4		4					d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.01	762.2	30.05	763.3	47.5	8.6	68	n.	5	2.2			7					d. clouds	The Staff.
Leicester, Museum	29.76	755.9	30.02	762.5	49.6	9.8	61	w.			1		3					d. clouds	J. C. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	76.0	24.4	85	se.			2		3			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.84	757.9	29.88	758.9	79.0	26.1	84	se.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.50	749.3	30.03	762.7	46.5	8.1	71	wnw.			1		0					blue sky	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.82	757.4	30.05	763.3	46.3	7.9	76	nw.			3		4					d. clouds	The Staff.
Plymouth	30.02	762.5	30.09	764.3	50.3	10.2	79	w.			1		8			blank	blank	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.44	747.8	29.54	750.3	45.2	7.3	84						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.01	762.2	30.08	764.0	70.0	21.1	68	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.71	754.6	29.99	761.7	48.8	9.3	78	sw.			1		0			0.05	1.3	blue sky	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.93	760.2	45.9	7.7	86	wsw.			3		8			0.590	15.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.10	764.5	44.0	6.7	76	sw.	0	2.7			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					47.1	8.4	77	ne.			0.5		4					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.06	763.5	30.12	765.0	53	11.7	54	nw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.98	761.5	30.01	762.2	52.3	11.3	82	sw.	21	9.4			10			blank	blank	d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.63	752.6	30.02	762.5	74.8	23.8	78	se.	9.3	4.2		0	8 n		se.			drizzling	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.38	771.6	30.42	772.7	32.0	0.0		calm	0	0		10 ck	0	w.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.21	767.3	30.26	768.6	38	3.3	86	n.	20	8.9			10 n		n.	0.180	4.6	light rain	H. J. Cundall, C. E.
Chatham, N. B.*	30.36	771.1	30.42	772.7	30	— 1.1	81	n.	9	4.0		2 k	8 ks	n.	n.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	30.19	766.8	30.40	772.1	24.7	— 4.1	86	e.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B.	30.41	772.4	30.46	773.7	25.5	— 3.6		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T.*																			Alex. Taylor.
Father Point, Quebec*	30.47	773.9	30.50	774.7	24	— 4.4	100	sw.	5	2.2		5 k	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.45	748.0	30.32	770.1	32	0.0	88	s.	4	1.8			10 s		s.	0	0	cloudy	James Stewart.
Fredericton, N. B.	30.39	771.9	30.40	773.7	27.0	— 2.8	76	nw.	5	2.2		0	0			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.33	770.4	30.39	771.9	33	0.6	74	ne.	18	8.0		hz	0			0	0	hazy	J. Chipman Seeley
Granton, Ontario	29.12	736.9	30.27	768.8	34.0	1.1	80	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S.*	30.12	765.0	30.25	768.3	40	4.4	82	nw.	12	5.4		10 k		n.		0	0	cloudy	A. Allison.
Hamilton, Ontario	29.86	758.4	30.27	768.8	32.9	0.5	86	ne.			1	10 cs	0	ne.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.03	762.7	30.38	771.6	28	— 2.2	88	ne.	8	3.6		5 c	0	n.		0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.11	764.8	30.15	765.8	41.0	5.0	87	ne.			6		10 n			0	0		C. H. Rigby.
London, Ontario	29.35	745.5	30.29	769.4	35.2	1.8	86	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.86	707.6	30.23	767.8	31	— 0.6	92	w	7	3.1			10 n			0.04	1.0	cloudy	John Ewart.
Minnedosa, N. W. T.	28.29	718.6	30.27	768.8	29	— 1.7	96	sw.	1	0.4			10 ks		sw.	0.02	0.5	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.23	767.8	30.45	773.4	26	— 3.3	77	e.	6	2.7		0	0			0	0	clear	C. H. McLeod, C. E.
Ottawa, Ontario	30.19	766.8	30.43	772.9	22.9	— 5.1	87	e.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.63	752.6	30.37	771.4	25	— 3.9	73	n.	12	5.4		2 k	2 ks	ne.	ne.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.57	751.1	30.34	770.6	31.7	— 0.2	77	ne.			1	0	3 ks			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.73	755.1	30.47	773.9	32	0.0	88	nw.	7	3.1			10 ks	W.		0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.57	751.1	30.28	769.1	32	0.0	90	ne.	10	4.5			10 ks		n.	0	0	cloudy	G. Morgan
Port Stanley, Ontario	29.59	751.6	30.26	768.6	35	1.7	79	w.	2	0.9			10 n		sw.	0	0	cloudy	M. Payne.
Qu'Appelle, N. W. T.	27.95	709.9	30.35	770.9	22	— 5.6	96	calm	0	0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.12	765.0	30.50	774.7	24	— 4.4	100	calm	0	0		2 cs	0			0	0	fair	Capt. Asse, R. N.
Rockliffe, Ontario*	29.93	760.2	30.43	772.9	18	— 7.8	84	se.	3	1.3		0	fg			0	0	foggy	A. H. McIntyre.
St. Andrews, N. B.	30.35	770.9	30.40	772.1	27	— 2.8	70	n.	3	1.3		0	0			0	0	clear	
St. John, N. B.	30.35	770.9	30.40	772.1	30.9	— 0.6	72	n.	4	1.8		6 k	0	ne.		0	0	d. clouds	G. Hutchinson.
Saint John's, N. F.	29.79	756.7	30.05	763.3	41	5.0	96	ne.			5		10 n			0.73	18.5	cloudy	J. Higgins.
St. Pierre, N. F.			30.00	762.0	40	4.4		ne.			8								The Commandant.
Saugeen, Ontario*	29.58	751.3	30.33	770.4	32	0.0	78	e.	2	0.9			10 s			0	0	cloudy	
Stratford, Ontario	28.97	735.8	30.31	769.9	32.2	0.1	88	e.	3.0	1.3			10 s			0	0	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrument. error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers.
Canadian—Continued.																			
S. W. Point, Anticosti	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Miss Grace Pope.
Sydney, C. B.	30.11	764.8	30.17	766.3	39	3.9	92	n.	8	3.6	.....	.....	10 n	.....	.....	0.04	1.0	cloudy	[illegible], C. E.
Toronto, Ontario*	29.91	759.7	30.31	769.9	32	0.0	81	ne.	8	3.6	.....	0	2 k	.....	e.	0	0	clear	Magnetic Observatory.
Woodstock, Ontario	29.17	740.9	30.29	769.4	33.6	0.9	83	.....	.....	.....	.....	10 k	0	w.	.....	0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.25	768.3	30.32	770.1	35	1.7	89	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	29.96	761.0	29.99	761.7	67.0	19.4	76	sw.	15.0	6.7	.....	7 ck	0	.....	.....	0	0	fine	I. Garfelt.
Cape Town	29.96	761.0	.....	.....	67.5	19.7	48	.....	.....	.....	.....	0	4 k	.....	.....	0	0	.....	
Springbok Fontein	27.87	707.9	.....	.....	74	23.3	36	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	J. T. Eustace.
Chilian.																			
Coquimbo	30.00	762.1	30.08	764.1	58.6	14.8	88	n.	.....	.....	3	8	0	.....	.....	.....	.....	cloudy	Samuel Redolez.
Iquique	29.98	761.5	30.01	762.2	61.7	16.5	73	sw.	.....	.....	3	.....	.....	.....	.....	.....	.....	fair	Rafael Moreno.
Niebla	29.52	749.9	29.63	752.6	50.0	10.0	79	e.	.....	.....	2	3 c	0	w.	.....	0	0	.....	Federico Kühling.
Punta Caldera	29.98	761.5	30.07	763.7	59.4	15.2	80	nw.	.....	.....	1	6 c	0	nw.	nw.	.....	.....	fair	Manuel Tobar.
Punta Corona	30.11	764.8	30.30	769.6	.....	.....	.....	s.	.....	.....	3	0	3 ks	.....	ne.	0.488	12.4	clear	Francisco Alvarado.
Valparaiso	29.81	757.2	29.89	759.8	58.3	14.6	84	s.	.....	.....	1	0	0	.....	.....	.....	.....	clear	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.54	648.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.01	762.3	30.04	763.0	70.3	21.3	94	sse.	5.1	2.3	.....	.....	2	.....	.....	0	0	clear	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.84	757.8	29.88	759.0	50.0	10.0	69	wnw.	13	6	.....	.....	7	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanoe	29.89	759.2	29.91	759.7	50.2	10.1	69	w.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	Overloerer Lauridsen.
Godthaab, Greenland	29.81	757.1	29.85	758.2	25.3	— 3.7	95	s.	.....	.....	4	.....	10	.....	.....	.....	.....	snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.76	755.9	29.81	757.1	21.2	— 6.0	.....	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	
Stykkisholm, Iceland	28.63	727.2	28.67	728.3	37.0	2.8	74	e.	.....	.....	2	.....	8	.....	.....	.....	.....	snow & hail	A. O. Thorlacius.
Thorshavn	29.16	740.6	29.18	741.2	46.2	7.9	89	s.	22	10	.....	.....	10	.....	.....	.....	.....	raining	Overloerer Bergh.
Vestervig	29.74	755.5	29.84	757.8	48.4	9.1	71	w.	.....	.....	2	.....	9	.....	.....	.....	.....	raining	Loerer Oesterbol.
Egyptian.																			
Cairo	29.90	759.5	.....	.....	80.1	26.7	.....	ne.	5.4	2.4	.....	.....	0	.....	.....	0	0	.....	Albert Ismaiun.
French.																			
Agen, Normal School	29.53	750.1	30.19	766.9	48.2	9	94	wsw.	.....	.....	2	.....	nk	nw.	nw.	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.51	749.6	30.06	763.6	48.6	9.2	95	w.	.....	.....	1	.....	.....	.....	e.	0.059	1.5	.....	M. Nicot, Director.
Avignon, Normal School	29.91	759.7	29.99	761.7	58.6	14.8	60	nnw.	.....	.....	4	.....	0	.....	.....	0.031	0.8	clear	M. Giraud, Director.
Bar-sur-Seine	29.51	749.6	30.08	764.1	44.2	6.8	96	ne.	.....	.....	1	.....	8 kn	.....	ne.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.78	756.4	30.05	763.2	50.2	10.1	76	w.	.....	.....	1	.....	10	.....	w.	0.004	0.1	raining	M. Frère Eugène Marie.
Besançon, Normal School	29.13	739.8	30.06	763.4	43.7	6.5	91	ne.	.....	.....	1	.....	5	.....	ne.	0.098	2.5	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.88	758.9	30.14	765.6	54.9	12.7	58	nw.	.....	.....	1	.....	2	.....	.....	0.012	0.3	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.57	751.1	30.13	765.4	47.3	8.5	83	w.	.....	.....	1	.....	k	.....	w.	0	0	.....	M. Malet, Director.
Brest, Naval Observatory	29.94	760.5	30.19	766.7	52.9	11.6	73	n.	.....	.....	2	.....	6	.....	n.	0.177	4.5	.....	M. de Kermarès, Dir.
Caen, Normal School	29.95	760.8	30.03	762.8	50.7	10.4	84	nw.	.....	.....	1	.....	10	.....	.....	0.098	2.5	raining	M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.73	755.1	30.00	763.4	43.3	6.3	97	calm	.....	.....	0	.....	10	.....	.....	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.51	749.6	30.03	762.8	49.6	9.8	79	sse.	.....	.....	1	.....	fg	.....	.....	0	0	light fog	M. Noel, Director.
Clermont-Ferrand Obs'y	28.69	728.8	30.00	763.6	51.1	10.6	44	n.	.....	.....	2	.....	5	.....	n.	0	0	.....	M. Allnard, Director.
Cluny, Normal School	29.19	741.4	30.04	763.0	49.1	9.5	73	w.	.....	.....	2	.....	.....	nw.	.....	0.165	4.2	.....	M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.5	30.07	763.7	46.8	8.2	68	w.	.....	.....	1	.....	8 kn	w.	w.	0	0	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.37	695.1	29.91	759.8	48.2	9	81	ne.	.....	.....	4	.....	7 k	.....	.....	0	0	.....	M. Jarach, Director.
Gréasque, du Rhone	28.80	731.5	29.93	760.1	53.4	11.9	65	nw.	.....	.....	6	.....	5	.....	nw.	0.169	4.3	.....	M. Kina, Director.
Grenoble, Normal School	29.33	745.0	30.04	762.9	57.2	14	74	ne.	.....	.....	4	.....	kn	.....	n.	2.05	52.	.....	M. Ablard, Directoor.
Guéret, Normal School	28.51	724.2	30.11	764.8	46.8	8.2	66	e.	.....	.....	1	.....	kn	.....	nw.	0.020	0.5	.....	M. Delorme, Dir.
Lamballe, Normal School	29.73	755.1	30.00	762.1	51.8	11	90	nw.	.....	.....	4	.....	5	.....	nw.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.52	749.8	30.09	764.2	55.6	13.1	77	nne.	.....	.....	3	.....	5	.....	.....	0.425	10.8	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.3	30.15	765.9	56.8	13.8	57	n.	.....	.....	1	.....	8	nw.	nw.	0.339	8.6	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.98	736.0	30.04	763.1	46.6	8.1	84	nw.	.....	.....	1	.....	10 n	.....	nne.	0.843	21.4	covered	M. André, Director.
Mans, Normal School	29.78	756.4	30.10	764.4	48.2	9	92	ssw.	.....	.....	1	.....	5	.....	nw.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.67	753.5	29.94	760.4	57.2	14.0	57	nw.	.....	.....	4–5	.....	4	.....	nw.	0.157	4.0	.....	M. Stephan, Director.
Montlouis	24.78	629.3	29.62	752.3	43.7	6.5	39	nw.	16.8	7.5	.....	.....	4	.....	w.	0	0	.....	M. Cave for Dr. Fines.
Montpellier, Normal School	29.84	757.9	29.95	760.7	59.4	15.2	58	wnw.	.....	.....	4	.....	0	.....	.....	0.059	1.5	clear	M. Galzin, Director.
Nancy	29.27	743.4	30.08	763.9	45.3	7.4	85	wnw.	.....	.....	1	.....	kn	.....	.....	0	0	.....	M. Hasse, Director.
Nantes, Observatory	29.98	761.5	30.14	765.6	57.6	14.2	58	nw.	.....	.....	1	c	7 kn;k	.....	nw.	0	0	.....	M. Larocque, Director.
Perpignan, Observatory	29.91	759.8	30.03	762.7	58.6	14.8	53	nw.	11.2	5.0	.....	.....	1	.....	nw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.13	536.6	.....	.....	24.1	— 4.4	.....	w.	.....	.....	1	.....	1	.....	w.	0.079	2.0	clear	M. Vaussenat, Director.
Privas, Normal School	28.96	735.6	30.06	763.4	54.0	12.2	86	s.	.....	.....	1	.....	10	s.	n.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.11	637.8	.....	.....	30.2	— 1.0	96	nw.	.....	.....	2	.....	5	.....	nw.	0.016	0.4	.....	M. Allnard.
Rochefort, Naval Obs'y	30.09	764.2	30.12	765.0	54.3	12.4	70	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.6	30.12	765.1	53.2	11.8	78	w.	.....	.....	1	.....	2	se.	.....	0	0	slightly cl'dy	M. Brotier, Director.
Rodez, Normal School	27.84	707.1	30.02	762.4	45.9	7.7	84	e.	.....	.....	1	.....	10 n	.....	se.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.97	761.2	30.02	762.4	49.6	9.8	64	ne.	.....	.....	1	.....	5	ne.	.....	0	0	cloudy	M. Mouillot, Dir.
St Lô	29.93	760.2	30.08	763.9	50.9	10.5	76	nw.	.....	.....	2	.....	5	.....	nw.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.90	759.5	30.07	763.7	48.2	9.0	83	sse.	.....	.....	1	.....	7	sw.	sw.	0	0	very cloudy	M. Renou, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	54.1	12.3	62	nw.	.....	.....	4	.....	5	nw.	.....	0.543	13.8	cloudy	M. Baillaud, Director.
Tours	29.92	759.9	30.10	764.4	52.9	11.6	80	wnw.	.....	.....	1	.....	8	nnw.	wnw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.56	750.7	30.05	763.2	50.4	10.2	74	nw.	.....	.....	1	.....	8	.....	.....	0.185	4.7	very cloudy	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.01	762.3	30.16	766.1	57.6	14.2	71	nw.	7.8	3.5	.....	.....	2 k	.....	nw.	0.240	6.1	.....	M. Cartier, Director.
German.																			
Ansbach	28.54	724.8	30.02	762.5	42.8	6.0	88	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.14	740.2	29.98	761.6	43.9	6.6	77	calm	.....	.....	0	.....	10 ks	.....	.....	0	0	.....	Prof. Dr. Hoh.
Berlin	29.84	757.8	29.98	761.5	50.0	10.0	79	w.	.....	.....	2	.....	4	.....	.....	0	0	.....	Dr. Leusch.
Breslau	29.49	749.0	30.02	762.5	44.8	7.1	78	sse.	.....	.....	2	.....	10	.....	.....	0.020	0.5	rain & fog	Royal University Obs'y.
Carlsruhe	29.58	751.4	30.05	763.2	46.6	8.1	86	ne.	.....	.....	1	.....	10	ne.	.....	0.008	0.2	.....	Albert Senz.
Cassel	29.27	743.5	29.98	761.6	48.6	9.2	71	w.	.....	.....	1	.....	5	sw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.65	753.1	30.02	762.4	48.7	9.3	52	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.58	725.9	30.04	762.9	41.0	5.0	87	n.	.....	.....	3	.....	10	e.	.....	0.472	12.0	raining	Wilhelm, Chief Tel.
Hamburg	29.87	758.6	30.08	763.9	47.8	8.8	88	wsw.	.....	.....	2	.....	8	.....	.....	0	0	.....	E. Preller.
Kiel	29.91	759.8	29.93	760.2	48.2	9.0	84	w.	.....	.....	1	.....	9	.....	.....	0.075	1.9	.....	Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.2	30.00	762.0	48.9	9.4	72	ssw.	.....	.....	1	.....	9	.....	.....	0	0	misty	H. Leppig, Asst.
Magdeburg	29.78	756.5	29.98	761.4	52.0	11.5	75	nw.	.....	.....	1	.....	4	nw.	.....	inap.	inap.	.....	Weather Observatory.
Memel	29.86	758.4	29.91	759.6	49.1	9.6	78	nw.	.....	.....	5	.....	8 k	.....	.....	.....	.....	.....	Issermann.
Munich	28.11	714.0	29.97	761.2	39.4	4.1	92	n.	.....	.....	2	.....	10	w.	.....	0.409	10.4	raining	Central Station.
Neufahrwasser	29.93	760.1	29.94	760.5	50.9	10.5	76	sw.	.....	.....	2	.....	10	.....	.....	0	0	.....	A. Lothes.
Neustadt, Palatinate	29.46	748.2	29.98	761.6	47.7	8.7	77	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Dicknether.
Stuttgart	29.05	737.8	29.95	760.8	47.3	8.5	73	n.	.....	.....	1	.....	10	.....	.....	0.067	1.7	.....	Prof. Dr. Schoder.
Wustrow	29.88	758.9	29.91	759.6	46.6	8.1	89	sw.	.....	.....	4	.....	3 s	.....	.....	0	0	.....	Profs. Brandes & Reimer.
Greek.																			
Athens	29.74	755.3	30.11	764.8	73.0	22.8	.....	s.	.....	.....	1.0	.....	2	.....	.....	0.004	0.1	smoky	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.88	758.8	29.93	760.1	84.5	29.2	58	wsw.	24.0	10.7	.....	.....	0	.....	.....	0	0	blue sky	
Deesa	29.41	746.9	29.87	758.8	90.1	32.3	28	ne.	6.0	2.7	.....	.....	0	.....	.....	0	0	blue sky	
Bombay	29.85	758.2	29.89	759.2	83.3	28.5	75	wnw.	6.0	2.7	.....	.....	2	.....	w.	0	0	d. clouds	
Poona, Yarrowda	28.04	712.1	29.90	759.3	77.8	25.4	72	nne.	10.0	4.5	.....	.....	3	e.	.....	0	0	d. clouds	
Trichinopoly	29.59	751.5	29.87	758.6	85.5	29.7	60	ene.	0.1	0.04	.....	.....	7	.....	.....	0	0	d. clouds	
Bellary	28.37	720.7	29.83	757.7	83.5	28.6	61	ese.	6.0	2.7	.....	.....	5	.....	.....	0	0	d. clouds	
Belgaum	27.36	695.1	29.94	760.4	70.0	21.1	92	sw.	3.0	1.3	.....	.....	9	e.	.....	0.08	2.0	thund'rst'm	
Lahore	29.13	739.9	29.88	758.9	78.9	26.1	41	calm	0	0	.....	.....	0	.....	.....	0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Roorkee	28.96	735.6	29.87	758.6	75.8	24.3	39	calm	0	0			0			0	0	blue sky	
Agra	29.33	744.9	29.89	759.2	84.2	29.0	26	nw.					0			0	0	blue sky	
Nagpur	28.86	733.0	29.91	759.8	76.2	24.6	63	calm	0	0			2			0.04	1.0	d. clouds	
Jubbulpore	28.57	725.7	29.95	760.7	73.3	22.9	60	calm	0	0			0			0	0	blue sky	
Lucknow	29.50	749.4	29.88	759.0	81.2	27.3	28	wnw.	2.5	1.1			0			0	0	blue sky	
Allahabad	29.59	751.6	29.91	759.6	76.6	24.8	75	calm	0	0			0			0	0	blue sky	
Patna	29.72	755.0	29.91	759.8	75.5	24.2	77	ssw.	2.4	1.1			0			0	0	blue sky	
Hazaribagh	27.88	708.3	29.92	759.9	73.6	23.1	57	nnw.	4.0	1.8			0			0	0	blue sky	
Cuttack	29.82	757.3	29.90	759.4	79.3	26.3	90	calm	0	0			10			0.05	1.3	overcast	
Calcutta, Alipore	29.67	758.7	29.89	759.2	79.9	26.6	74	nw.	2.0	0.9			3			0	0	d. clouds	
Dhubri	29.78	756.5	29.90	759.6	75.9	24.4	82	calm	0.6	0.3			0			0	0	blue sky	
Chittagong	29.87	758.6	29.96	760.9	80.7	27.1	77	calm	2.4	1.1			0			0	0	blue sky	
Sibsagar	29.61	752.2	29.95	760.8	77.0	25.0	85	ne.	2.0	0.9			4		sw.	0	0	blue sky	
Jeypore	28.48	723.3	29.91	759.8	84.0	28.9	25	nnw.	5.0	2.2			1		nw.	0	0	d. clouds	
Zanzibar	29.88	758.9			82.5	28.1	69	sw.	10.2	4.6			7		ene.	0	0	d. clouds	
ITALIAN.																			
Udine	29.42	747.3	29.83	757.7	58.6	14.8	96	calm	0	0			10			0.035	0.9		Prof. Giovanni Clodig.
Milan	29.26	743.1	29.77	756.2	61.5	16.4	83	ne.	5.6	2.5			10		wsw.	1.472	37.4		Prof. G. V. Schiapparelli
Padua	29.68	753.9	29.79	756.7	63.7	17.6	84	calm	0	0			10		wsw.	0.101	4.1		Prof. Dott. Lorenzoni.
Moncalieri	28.85	732.8	29.76	755.9	60.4	15.8	70	ne.	1.3	0.6			9		n.	0.197	5.0		Prof. F. F. Denza.
Genoa	29.61	752.0	29.80	756.9	64.8	18.2	70	s.	7.4	3.3			10		s.	0.697	17.7		Prof. G. M. Garibaldi.
Mondovi	27.85	707.4	29.77	756.2	57.4	14.1	77	sw.			4		8			0.547	13.9		Prof. D. C. Bruno.
Pesaro	29.79	756.6	29.84	757.8	69.1	20.6	77	s.	6.3	2.8			3		w.	0.327	8.3		Prof. Luigi Guidi.
Florence	29.56	750.9	29.82	757.4	69.3	20.7	73	sw.			4		10			0.098	2.5		Prof. Costantino Pitto
Leghorn	29.72	754.8	29.80	757.0	67.6	19.8	69	sw.	9.8	4.4			10			0.083	2.1		Prof. P. Monte.
Rome	29.76	755.8	29.93	760.2	71.6	22.0	67	s.	16.1	7.2			6		s.	0.209	5.3		Prof. P. Tacchini.
Lecce	29.80	757.0	30.06	763.4	69.8	21.0	72	ssw.	15.4	6.9			10		s.	0	0		Prof. C. de Giorgi.
Cosenza	29.15	740.3	30.04	762.9	66.6	19.2	63	se.	2.5	1.1			9		s.	0	0		Prof. D. Conti.
Cagliari	29.69	754.2	29.88	759.0	73.4	23.0	47	w.			2		1			0	0		Prof. A. Pacinotti.
Palermo	29.68	753.8	29.93	760.1	78.4	25.8	59	sw.	7.4	3.3			10		w.	0	0		Prof. G. Caccintore.
Syracuse	29.98	761.4	30.02	762.5	73.2	22.9	68	se.	9.8	4.4			10		ssw.	0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.46	748.2	29.97	761.2	71.6	22.0	62	ese.	3.1	1.4			3		sw.	0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.08	764.0	30.11	764.9	52.7	11.5	95	calm			0		10 k			0	0	cloudy	H. Hattori.
Awomori	30.03	762.7	30.07	763.8	52.0	11.1	87	sw.	2.7	1.2		2 cs	0			0	0	fair	K. Ogawa.
Hamamatsu	30.03	762.7	30.13	765.2	63.4	17.4	93	calm			0	0	2 s		nw.	0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.11	764.7	30.12	765.0	67.0	19.4	94	calm			0	0	2 s			0	0	clear	G. Miyanohaza.
Kanazawa	30.00	762.0	30.10	764.6	58.1	14.5	94	se.	2.3	1.0		0	1 s			0	0	fair	S. Endo.
Kioto	29.93	760.2	30.10	764.6	59.1	15.1	86	n.	1.3	0.5			10 s			0	0	cloudy	M. Tojima.
Kochi	30.09	764.3	30.11	764.8	68.7	20.4	91	w.	1.1	0.4		0	8 s			0	0	cloudy	K. Kusunose.
Miasaka	30.09	764.2	30.11	764.9	70.4	21.3	87	nne.			1	0	9 s		w.	0	0	cloudy	K. Masusaki.
Miyako	30.01	762.2	30.12	765.0	51.4	10.8	96	sw.	2.1	0.9		0	0			0	0	clear	Honno & Nagaoka.
Nagasaki, I. M. Obs'y	29.90	759.4	30.10	764.5	64.1	17.8	90	calm	0	0		0	0			0	0	clear	S. Takehayasu.
Niigata	30.06	763.5	30.10	764.5	57.3	14.1	96	ne.	0.6	0.3		0	1ks;s		w.	0	0	clear	Satoo & Tomikawa.
Nobiru	30.08	764.0	30.10	764.4	54.9	12.7	96	ene.	4.1	1.8		0	0			0	0	clear	Yoshino & Midzushina.
Numazu	30.08	764.0	30.12	765.0	61.8	16.6	90	e.			1	0	3 s			0	0	clear	R. Kaneda.
Osaka	30.09	764.4	30.11	764.8	61.8	16.6	83	e.	4.1	1.8		0	8 s			0	0	cloudy	H. Omura.
Sakai	30.09	764.4	30.10	764.6	61.4	16.3	90	e.			2	0	2 ks		se.	0	0	clear	Yamawchi & Sakamoto.
Shimonoseki	29.95	760.7	30.09	764.4	64.3	17.9	86	calm			0	0	1 s		w.	0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	30.06	763.4	30.13	765.3	60.4	15.8	93	e.	3.0	1.3		0	4ks;s		nw.	0	0	fair	The Staff.
Wakayama	30.04	763.0	30.09	764.3	59.7	15.4	88	calm	0	0		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.82	757.4	30.01	762.2	75.4	24.1	67	wsw.	11.0	4.9			8k;ks		ese.	0.08	2.0	cloudy	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.06	763.5	52.5	11.4	87	[illegible]	0.9	0.4		1 c	0			0	0	clear	F. Quijano, C. E.
Mazatlan	29.61	752.2	29.87	758.7	77.0	25.0	95	ene.	0.9	0.4		0	1 s			0	0	clear	
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.00	762.1	30.00	762.1	52.2	11.2		sw.			4					0.118	3.0		
Groningen	29.90	759.5	29.96	760.9	47.7	8.7		wnw.			1					0.004	0.1		
Helder	29.95	760.8	29.95	760.8	50.4	10.2		sw.			2					0.102	2.6		
Hellevoetsluis	29.95	760.6	29.95	760.6	53.2	11.8	79	sw.			1					0.043	1.1		H. van der Bruns
Utrecht	29.56	750.7	30.00	761.9	50.9	10.5	86	sw.			2		5			0.012	0.3	cloudy	
Sub-series.																			
Batavia, Java	29.69	759.1			78.4	25.8	82	n.	2.0	0.9			8			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.71	754.5	29.77	756.1	44.6	7.0	74	sse.	7	3			6			0.031	0.8		
Brono	29.60	751.8	29.64	752.8	42.8	6.0	75	s.			4		10			0	0		
Christiania	29.62	752.4	29.77	756.2	43.7	6.5	75	wsw.	4	2			9			0	0		
Gjæsvær	29.59	751.5	29.61	752.1	36.3	2.4		calm			0		10						
Lodingen	29.57	751.0	29.61	752.2	40.8	4.9	78	calm			0		9			0	0		
PORTUGUESE.																			
Angra, Azores					62.4	16.9	78	e.	4.9	2.2			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.08	764.1	30.17	766.3	67.1	19.5	60	ene.	6.9	3.1			6			0.709	18.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	758.9	30.21	767.4	59.9	15.5	31	nne.	23.7	10.6			0			0	0		The Staff
Ponta Delgada, Azores	30.38	771.7	30.45	773.5	66.9	19.4	49	ne.	12.5	5.6			5			0	0		
Saint Paul de Loando	29.67	753.7	29.87	758.8	78.1	25.6	88	w.	1.3	0.6			9			0	0		
San Salvador, Congo	28.05	712.5	29.87	758.8	79.2	26.2	65	nw.			2		9			0	0		
Serra da Estrella	25.38	644.7	30.22	767.6	40.3	4.6	53	ne.	7.4	3.3			1			0.079	2.0		
RUSSIAN.																			
Akmolinski	29.32	744.6	30.45	773.4	33.3	0.7	44	ene.	11	5		0	0			0	0		Major K. Lasarew.
Archangel	29.56	750.8	29.58	751.3	35.6	2.0	93	nne.	2	1			10			0	0		Capt. Sseliwerstow
Ashurada	30.46	773.7	30.37	771.3	60.8	16.0	80	nnw.	11	5			9 k			blank	blank		
Astrakhan	30.47	774.0	30.40	772.1	58.5	14.7	52	wsw.	2	1		0	1 s			0	0	light clouds	Capt. Wisganow.
Baku	30.45	773.5	30.41	772.3	61.5	16.4	70	s.	4	2		0	0			0	0		
Barnaul	30.08	764.1	30.61	777.5	35.6	2.0	68	ne.	9	4		0	0			0	0		Meteorological Obs'y
Bielosersk	29.24	742.7	29.72	754.8	39.6	4.2	87	wsw.	2	1			10 ks			0.189	4.8		
Dorpat	29.38	746.2	29.62	752.4	44.6	7.0	82	wsw.	16	7			10ks;n			0.185	4.7	light rain	Observatory.
Ekaterinburg	29.19	741.5	30.20	767.0	34.3	1.3	43	se.	22	10			10			0	0		Meteorological Obs'y.
Elissawetgrad	29.74	755.5	30.19	766.8	62.1	16.7	62	s.	4	2		0	3 ks			0	0		
Irkutsk	29.10	739.1	30.85	783.7	29.3	— 1.5	75	nnw.			1		4			0	0		
Kasalinsk					42.4	5.8	47	e.	4	2		0	5k;n						
Kasan	29.60	751.9	29.88	758.9	44.2	6.8	74	sw	13	6			10 n			blank	blank		Observatory.
Kem	29.60	751.8	29.65	753.1	37.8	3.2	93	calm	0	0			10 n			0.031	0.8		
Kertch	30.08	763.9	30.13	765.5	65.7	18.7	68	calm	0	0		1 cs	0			0	0		Lagorio & Sastyrea.
Kieff	29.50	749.3	30.14	765.6	52.7	11.5	56	se.	4	2		0	8 ks			0	0		Observatory.
Koslov	29.62	752.3	30.13	765.4	44.4	6.9	74	ssw.	16	7			9 s			0	0		
Libau	29.82	757.5	29.85	758.1	47.5	8.6	65	w.	11	5			9			0.205	5.2		E. Quaas.
Lugan	30.03	762.7	30.23	767.8	57.2	14.0	81	sw.	9	4			10			0	0		Meteorological Obs'y.
Moscow	29.48	748.9	29.97	761.2	44.6	7.0	77	ssw.	3.4	1.5			10 n			0.008	0.2		Meteorological Obs'y
Nikolaiev	30.09	764.2	30.16	766.0	64.8	18.2	72	s.	13	6		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolaiewsk-on-the-Amoor	29.99	761.7	30.08	763.9	24.1	— 4.4	86	une.	7	3	.....	.....	10 n	.....	.....	.....	.....	heavy snow	Iwanow.
Pekin, China	30.33	770.4	30.47	774 0	50.2	10.1	48	nw.	5.6	2.5	.....	0	2 k	.....	.....	0	0	.....	Physical Observatory.
Petro-Alexandrovsk	29.91	759.7	30.27	768.9	51.4	10.8	51	w.	3.4	1.5	.....	0	8 k	.....	.....	0	0	.....	
Petrozavodsk	29.44	747.9	29.64	752.9	40.3	4.6	81	calm	0	0	.....	.....	9 k	.....	.....	0	0	.....	Dr. Bergmann.
Pinsk	29.58	751.4	30.08	764.1	49.6	9.8	71	ssw.	4	2	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.13	765.4	30.17	766.2	71.6	22.0	77	e.	11	5	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.54	750.3	29.56	750 9	45.1	7.3	89	sse.	7	3	.....	.....	9 n	.....	.....	0.181	4.6	.....	Central Physical Obs'y.
Samarkand	27.72	704.1	30.20	767.0	55.2	12.9	82	calm	0	0	.....	.....	10 n	.....	.....	0.008	0.2	.....	
Semipalatinsk	29.87	758 7	30.56	776.2	36.1	2.3	49	n	4	2	.....	.....	0	.....	.....	0	0	.....	Major Lasarew
Sevastopol	29.95	760.8	30.16	766.1	64.8	18.2	67	nnw.	7	3	.....	1 cs	0	.....	.....	0	0	.....	
Staroi Bykhov	29.49	749.0	30.05	763.2	50.2	10.1	62	ssw.	13	6	.....	c	9 ks	.....	.....	0.350	8.9	.....	
Tashkend Laboratory	28 55	725.1	30.25	768.4	48.4	9.1	80	e.	11	5	.....	.....	10 n	.....	.....	0	0	h'vy clouds	Terch, A. M
Tiflis	28.95	735.3	30.37	771.4	60.4	15.8	56	sw.	2	1	.....	0	1 ks	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.63	701.9	30.21	767.4	40.1	4.5	65	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Viatka	28.80	731.4	29.44	747.7	34.0	1.1	98	w.	4	2	.....	.....	10	.....	.....	0.079	2.0	.....	
Warsaw	29.60	751.7	30.02	762.6	48.7	9.3	72	s.	2	1	.....	.....	10	.....	.....	0.398	10.1	.....	Astronomical Obs'y.
Yeniseisk	30.55	775.9	30.85	783.7	29.8	— 1.2	88	nw.	2	1	.....	.....	10	.....	.....	blank	blank	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	30.01	762.3	61.9	16.6	73	w.	6.9	3.1	.....	0	5	.....	.....	1.532	38.9	.....	Antonio Molins.
Bilbao, Met. Obs'y	30.13	765.3	30.19	766.8	57.0	13.9	80	nw.	1.8	0.8	.....	2	7	n.	.....	0.291	7.4	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.22	691 3	30.26	768.6	46.9	8.3	75	n.	1.3	0.6	.....	0	8	.....	.....	0.094	2.4	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.2	30.11	764 8	57.9	14.3	46	ne.	7.6	3.4	.....	0	6	.....	.....	0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.89	759.2	30 02	762.4	70.5	21.4	44	wnw.	6.0	2.7	.....	3	6	se.	.....	0	0	almost cov'd	Olayo Diaz, Director.
Oviedo	29.44	747.8	30.20	767.1	48.2	9.0	95	e.	0.9	0.4	.....	4 k	4 k	w.	w.	0	0	cloudy	Prof. L. G. Fradas.
Santiago, Met. Obs'y	29.32	744.8	30.23	767.8	56.3	13.5	63	ne.	2.5	1.1	.....	.....	7	.....	.....	0.031	0.8	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.80	756.8	29.86	758 5	71.7	22.1	91	s.	0.9	0.4	.....	5 c	s	wsw.	.....	0.67	17.1	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.3	79.8	26.4	82	ene.	6.6	3.0	.....	0	1 ks	.....	.....	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.04	763 1	30.14	765.6	61.5	16.4	58	wnw.	6.6	3.0	.....	0	2	.....	w.	0	0	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.84	758.0	29.93	760.3	81.3	27.4	89	calm	0	0	.....	2 c	2 k	ne.	ne.	0.055	1.4	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.70	754.4	29.74	755.4	38.5	3.6	93	se	.....	.....	2	.....	10	.....	.....	0	0	.....	
Umea	29.69	754.0	29.74	755.3	41.4	5.2	94	calm	.....	.....	0	.....	9	.....	.....	0.102	2.6	.....	
Hernosand	29.70	754.4	29.75	755 7	42.8	6.0	82	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	
Stockholm	29.63	752 7	29.81	757 2	40.3	4.6	90	wnw.	.....	.....	2	.....	10	.....	.....	0.181	4.6	.....	
Wisby	29.73	755 1	29.79	756.6	45.3	7.4	77	w.	.....	.....	6	.....	10	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.69	754.2	29.78	756.4	39.7	4.3	93	nw.	4.9	2.2	.....	.....	10	.....	.....	0.004	0.1	.....	H.H.Hildebrandesson
SWISS.																			
Geneva	28.59	726.2	30.04	763.0	45.9	7.7	89	nne.	.....	.....	1	.....	10	.....	.....	1.193	30.3	covered	The Observatory.
TURKISH.																			
Constantinople	.....	.....	30.11	764.9	66.4	19.1	76	sw.	8	3.5	.....	.....	0	.....	.....	0	0	.....	
Valona	.....	.....	30.20?	767.1?	75.7	24.3	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cld'y	The Observatory.
Sub-series.																			A. Bertrand.
Beirut, Lee Obs'y, Syria	.....	.....	30.08	763.9	76.5	24.7	54	ne.	.....	.....	1	.....	0	.....	.....	0	0	.....	
Samokov, Bulgaria	26.81	681.0	.....	.....	88	31.1	59	calm	.....	.....	0	4 c	.....	w.	.....	0	0	.....	F. Nimr, B. A., Dir Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.37	771.4	30.45	773.4	35	1.7	79	n.	3	1.3	.....	c	2 s;fg	.....	.....	c	0	clear	J. O. Barnes.
Alpena, Michigan	29.65	753.1	30.32	770.1	33	0.6	68	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.00	635 0	29.90	759.4	32 0	0.0	81	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.33	694.2	30.25	768 3	29	— 1.7	88	ne.	5	2.2	.....	.....	fg	.....	.....	0	0	dense fog	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.11	764.8	53.0	11.7	100	e.	14	6.3	.....	.....	10 n	.....	e.	0.71	18.0	light rain	Edward A. Beals.
Atlantic City, New Jersey	30.28	769.1	30.30	769.6	52.3	11.3	75	ne.	22	9.8	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	56	13.3	86	ne.	9	4.0	.....	.....	10 s	.....	ne.	0	0	threatening.	Louis Duane.
Baltimore, Maryland	30.29	769.4	30.34	770.6	48.5	9.2	83	ne.	5	2.2	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	Geo. W Feiger.
Barnegat City, New Jersey	30.30	769 6	30.32	770.1	50.3	10.2	76	e.	27	12.1	.....	.....	10 s	.....	e.	0.05	1.3	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.64	727.4	30.26	768.6	34.0	1.1	82	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.41	696.2	30.32	770.1	32	0.0	81	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	B. O. Lenoir.
Block Island, Rhode Island	30 35	770.9	30.38	771.6	40.3	4.6	85	ne.	26	11.6	.....	0	0	.....	.....	0	0	clear	J. T. Baker.
Boise City, Idaho	27.28	692 9	30.14	765.5	28	— 2.2	88	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.27	768 8	30.43	772 9	33.0	0.6	74	nw.	10	4.5	.....	0	8 ks;s	.....	n.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.92	760 0	71.0	21.7	94	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	John McGlone.
Buffalo, New York	29.50	749.3	30.26	768.6	34	1.1	81	e.	4	1.8	.....	3 k	7 s	se.	se.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.15	715.0	30.25	768.3	32.5	0.3	88	ne.	7	3.1	.....	8 k	0	e.	.....	inap.	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.84	757.9	30.24	768.1	39.8	4.3	79	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.95	760.7	30.15	765.8	47.4	8.6	88	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	61.0	16.1	84	ne.	25	11.2	.....	.....	10 s	.....	n.	0.05	1.3	cloudy	A. R. Alderson.
Cape May, New Jersey	30.25	768.3	30.28	769 1	49.0	9.4	93	ne.	14	6.3	.....	.....	10 s	.....	e.	0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.30	744.2	29.98	761.5	47.5	8.6	66	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	66.5	19.2	97	ne.	9	4.0	.....	0	9 k	.....	ne.	0.03	0.8	cloudy	G. W. Davis.
Charleston, S. Carolina	30.00	762.0	30.06	763 5	64.0	17.8	93	ne.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.34	745 2	30.20	767.1	47.8	8.8	95	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.81	20.6	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.10	764.5	53.0	11.7	90	ne.	5	2.2	.....	.....	10 ks	.....	n.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.00	609.6	30.02	762.5	29.3	— 1.5	70	nw.	6	2.7	.....	0	4 s	.....	nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.58	751.3	30.29	769.4	41.0	5.0	73	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.21	767.3	30.23	767.8	56	13.3	86	ne.	12	5.4	.....	.....	8 s	.....	ne.	0.08	2.0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.59	751.6	30.25	768.3	43.0	6.1	85	ne.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.53	750.0	30.27	768 8	42.8	6.0	65	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.38	746.2	30.24	768.1	41	5.0	82	n.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.08	713.2	30.03	762.7	61.0	16.1	100	ne.	7	3.2	.....	.....	10 n	.....	calm	0.34	8.6	light rain	C. E. King.
Custer, Fort, M. T.	26.94	684.3	30.18	766.6	26	— 3.3	76	nw.	1	0.4	.....	5 cs	5 s	w.	nw.	0	0	cloudy	T. Gibson.
Davenport, Iowa	29.64	752 8	30.30	769.6	38.3	3.5	72	e.	6	2.7	.....	2 cs	0 s	w.	ne.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	30.00	762.0	58.0	14.4	94	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.42	721.9	30.22	767.6	27.0	— 2.8	94	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. Moore.
Deadwood, Dakota	25.46	646.7	30.14	765.5	38.5	3.6	79	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del	30.24	768.1	30.26	768 6	51	10.6	96	ne.	28	12.5	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	F. W. Mixer.
Denver, Colorado	24.72	627 9	29.98	761.5	32.8	0.4	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.36	745.7	30.28	769.1	39	3.9	82	se.	3	1.3	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.61	752.1	30.32	770.1	38.0	3.3	73	nw.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. R. Brace.
Dodge City, Kansas	27 50	698.5	30.13	765.3	43	6.1	100	n.	8	3 6	.....	.....	10 n	.....	.....	0.16	4.1	light rain	J. H. Bryce.
Dubuque, Iowa	29.61	752.1	30.33	770.4	33.2	0.7	80	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.60	751.8	30.36	771 1	36	2.2	89	e.	1	0.4	.....	.....	10 s	.....	e.	0.01	0.3	cloudy	N. B. Conger.
Eastport, Maine	30.33	770.4	30.40	772.1	30.2	— 1.0	78	n.	11	4.9	.....	0	2 s	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	30.10	764.5	48	8.9	93	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.24	666.5	29.98	761.5	44.9	7.2	76	n.	1	0.4	.....	2 c	0	nw.	.....	0	0	clear	J. O'Rowa.
Erie, Pennsylvania	29.53	750.0	30.26	768.6	42	5.6	82	s.	1	0.4	.....	....	10s;fg	.....	sw.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.69	754.1	30.36	771.1	35.0	1.7	79	n.	12	5.4	.....	.....	10 s	.....	ne.	0.04	1.0	cloudy	George Heatucote.
Galveston, Texas	29.92	760.0	29.96	761.0	70.1	21.2	90	ne.	10	4.5	.....	2 ck	7ks;fg	w.	se.	0	0	cloudy	E. O'C. MacInerney
Grand Haven, Michigan	29.62	752.3	30.29	769.4	36.0	2.2	79	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. H. Fallon.

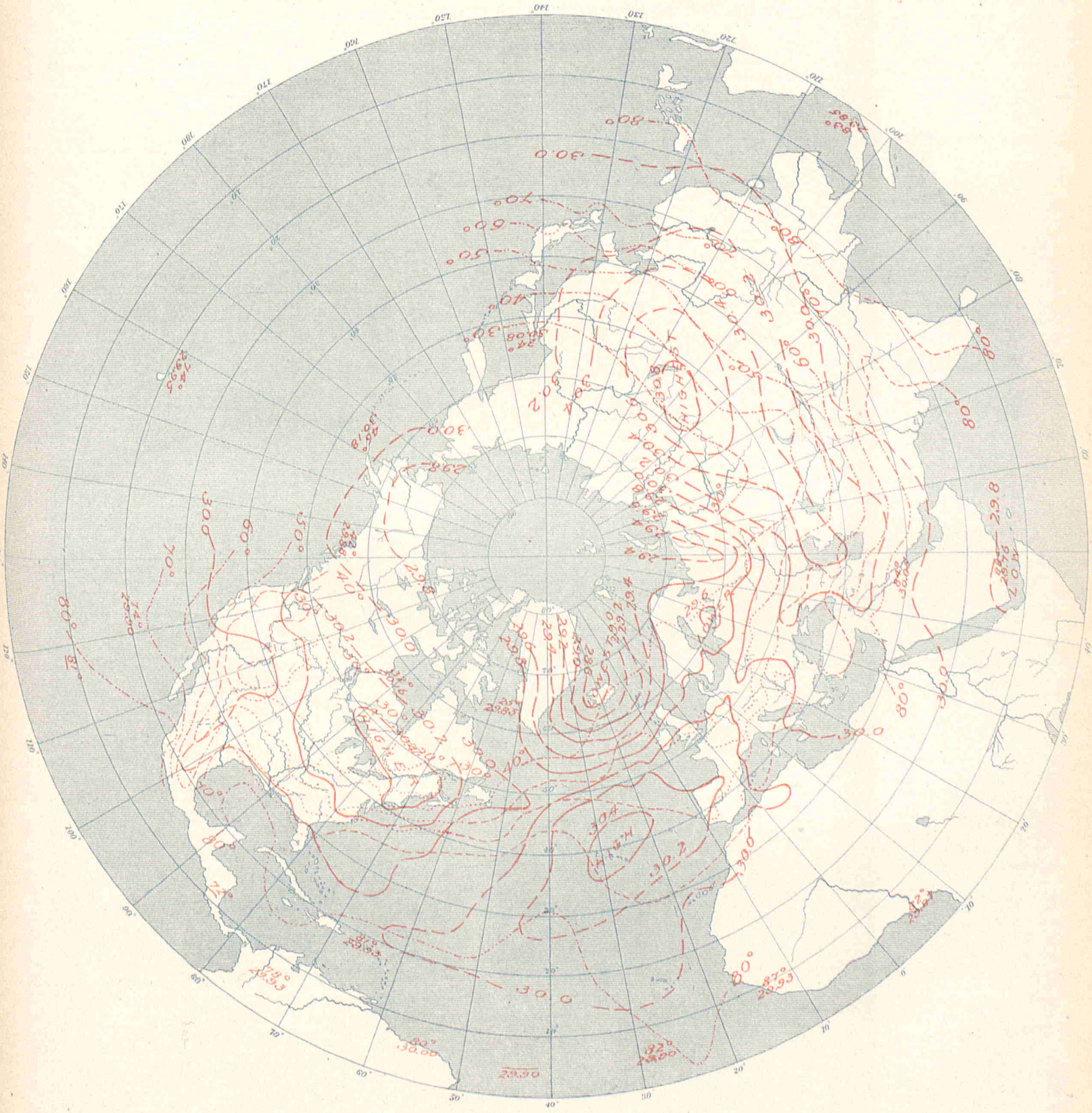
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.20	640.1	29.90	759.4	49.6	9.8	35	n.	6	2.7	.....	4ck;cs	0	nw.	.....	0	0	fair	Chas. A. Read.
Hatteras, North Carolina	30.11	764.8	30.12	765.0	63.0	17.2	93	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.84	656.3	30.14	765.5	33	0.6	88	n.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Jones.
Huron, Dakota	28.84	732.5	30.28	769.1	35.8	2.1	90	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.44	747.8	30.24	768.1	40.3	4.6	82	ne.	2	0.9	.....	0	9 k	.....	n.	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.87	758.7	29.90	759.4	73.0	22.8	99	e.	16	7.2	.....	.....	10 ks	.....	e.	inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	29.95	760.7	29.99	761.7	67.5	19.7	92	ne.	4	1.8	.....	4 cs	fg.	w.	.....	0.61	15.5	fair	J. W. Smith.
Keokuk, Iowa	29.63	752.6	30.30	769.6	40.0	4.4	82	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	threatening.	F. Z. Gosewisch.
Key West, Florida	29.82	757.4	29.84	757.9	74	23.3	97	calm	0	0	.....	1 cs	1 ks	w.	.....	5.76	146.3	clear	A. W. Browne.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	62	16.7	84	ne.	28	12.5	.....	.....	10 s	.....	ne.	0.21	5.3	cloudy	Wesley Blake.
Knoxville, Tennessee	29.09	738.9	30.13	765.3	51.5	10.8	95	n.	3	1.3	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.55	750.6	30.34	770.6	35.3	1.8	64	e.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. C. Emery.
Leavenworth, Kansas	29.32	744.7	30.22	767.6	44	6.7	93	e.	3	1.3	.....	.....	10 s	.....	e.	0.44	11.2	cloudy	T. S. Outram.
Lewiston, Idaho	29.40	746.7	30.25	768.3	33.0	0.6	88	calm	0	0	.....	0	8 s	.....	.....	0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.81	757.2	30.13	765.3	51.0	10.6	80	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	46	7.8	68	ne.	4	1.8	.....	5 c	0	w.	.....	0	0	fair	T. S. Collins.
Louisville, Kentucky	29.64	752.8	30.21	767.3	43.7	6.5	77	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.55	750.6	30.24	768.1	48.5	9.2	89	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.38	9.7	light rain	Jno. Healy.
Mackinaw City, Michigan	29.68	753.9	30.36	771.1	38.0	3.3	79	sw.	5	2.2	.....	.....	10 s	.....	nw.	0.06	1.5	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.12	765.0	30.13	765.3	61.0	16.1	100	n.	14	6.3	.....	.....	10 n	.....	.....	0.12	3.0	light rain	William Daly.
Maginnis, Fort, Montana	25.67	652.0	30.21	767.3	32	0.0	88	nw.	2	0.9	.....	.....	10 n	.....	nw.	0.06	1.5	light snow	F. Burke.
Marquette, Michigan	29.64	752.8	30.38	771.6	35.0	1.7	79	nw.	1	0.4	.....	.....	10 s	.....	nw.	inap.	nap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.79	756.7	30.13	765.3	47	8.3	77	ne.	4	1.8	.....	0	8 s	.....	.....	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.55	750.6	30.31	769.9	37.3	2.9	83	n.	9	4.0	.....	.....	10 s	.....	n.	0	0	cloudy	W. Line.
Mobile, Alabama	29.95	760.7	29.99	761.7	63	17.2	98	n.	8	3.6	.....	3 c	7 s	w.	n.	0.18	4.6	cloudy	H. U. Jones.
Montgomery, Alabama	29.78	756.4	30.01	762.2	62	16.7	93	ne.	5	2.2	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.29	744.0	30.31	769.9	31	— 0.6	100	se.	5	2.2	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	H. Bessant.
Mt. Washington, N. H.	23.95	608.3	30.29	769.4	26.5	— 3.1	65	e.	18	8.0	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.57	751.1	30.15	765.8	45.0	7.2	96	ne.	8	3.6	.....	.....	10 n	.....	ne.	inap.	inap.	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.29	769.4	30.41	772.4	32.5	0.3	71	ne.	16	7.2	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.40	772.1	30.45	773.4	37	2.8	82	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	68.5	20.3	90	ne.	7	3.1	.....	0	9 s	.....	e.	0	0	cloudy	M. Herman.
New York, New York	30.23	767.8	30.41	772.4	40.0	4.4	65	ne.	11	4.9	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	30.16	766.1	30.19	766.8	59.4	15.2	87	ne.	13	5.8	.....	.....	10 s	.....	ne.	0.07	1.8	cloudy	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.17	766.3	37.6	3.1	89	e.	4	1.8	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	38.0	3.3	89	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Omaha, Nebraska	29.07	738.4	30.27	768.8	42.2	5.7	84	se.	3	1.3	.....	.....	10 ks	.....	.....	0.02	0.5	cloudy	A. Pollak
Oswego, New York	30.00	762.0	30.33	770.4	39.0	3.9	68	se.	10	4.5	.....	0	9 s	.....	s	0	0	cloudy	J. G. Linsley
Palestine, Texas	29.50	749.3	30.06	763.5	58.5	14.7	90	ne.	8	3.6	.....	.....	10 ks	.....	n	0.03	0.8	cloudy	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.97	761.2	66.2	19.0	92	n.	3	1.3	.....	1 cs	0	w.	.....	inap.	inap.	clear	M. McGauran.
Philadelphia, Pa.	30.26	768.6	30.36	771.1	43	6.1	83	ne.	16	7.2	.....	.....	10 s	.....	ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.75	450.8	30.03	762.7	11	—11.7	87	w.	28	12.5	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.42	747.3	30.24	768.1	45.0	7.2	83	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	G. C. Schaeffer.
Port Huron, Michigan	29.56	750.8	30.25	768.3	35.0	1.7	79	nw	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.40	772.1	30.45	773.4	33.0	0.6	68	n.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	W. W. Eichelberger.
Portland, Oregon	30.11	764.8	30.18	766.6	39.8	4.3	82	calm	0	0	.....	10 cs	0	n.	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.94	760.5	34.5	1.4	74	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	N. D. Lane.
Provincetown, Mass.	30.37	771.4	30.40	772.1	42	5.6	53	ne.	10	4.5	.....	0	9 ks	.....	ne.	inap.	inap.	cloudy	O. N. Kitchel.
Red Bluff, California	29.68	753.9	30.04	763.0	44	6.7	76	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.73	755.1	29.97	761.2	75.0	23.9	85	se.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	Fred. Belford.
Rochester, N. Y.	29.63	752.6	30.30	769.6	31	— 0.6	88	se.	9	4.0	.....	3 k	sk.	.....	.....	0	0	dense smoke	E. W. McCann.
Roseburg, Oregon	29.60	751.8	30.16	766.1	36.8	2.7	90	n.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Naury.
Sacramento, California	29.95	760.7	30.03	762.7	46.5	8.1	85	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick
St. Louis, Missouri	29.63	752.6	30.25	768.3	38.4	3.6	87	ne.	8	3.6	.....	.....	9k;s	.....	sw.	0	0	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.74	755.4	29.78	756.4	26	— 3.3	88	w.	12	5.4	.....	0	4 ks	.....	w	0.02	0.5	fair	Fred. H. Clarke.
St. Paul, Minnesota	29.44	747.8	30.31	769.9	34.5	1.4	83	se.	4	1.8	.....	.....	10 s	.....	se.	0.18	4.6	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.42	747.3	30.32	770.1	33	0.6	88	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley
Salt Lake City, Utah	25.59	650.0	29.99	761.7	34	1.1	65	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.88	758.9	29.95	760.7	52.2	11.3	72	n.	3	1.3	.....	4 cs	0	w.	.....	0	0	fair	F. R. Day.
Sanford, Florida	29.87	758.7	29.92	760.0	69.5	20.8	92	ne.	6	2.7	.....	0	8 ks	.....	e.	1.21	30.7	cloudy	J. B. Marbury.
Sandusky, Ohio	29.61	752.1	30.30	769.6	40	4.4	73	n.	17	7.6	.....	.....	10 ks	.....	n.	inap.	inap.	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.36	771.1	30.39	771.9	44.0	6.7	76	e.	24	10.7	.....	8 k	0	e.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	50.5	10.3	90	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	N. Gorom.
Savannah, Georgia	29.96	761.0	30.05	763.3	67	19.4	85	ne.	12	5.4	.....	.....	10 n	.....	ne.	inap	inap.	light rain	H. W. Ford.
Shaw, Fort, Montana	26.52	673.6	30.22	767.6	30	— 1.1	100	w.	2	0.9	.....	.....	10 n	.....	.....	0.33	8.4	light snow	S. W. Morrison.
Shreveport, Louisiana	29.79	756.7	30.03	762.7	55.0	12.8	74	ne.	11	4.9	.....	.....	10 s	.....	ne.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. M. Matthews.
Sitka, Alaska	29.81	757.2	29.88	758.9	42.2	5.7	83	e.	11	4.9	.....	.....	10 n	.....	e.	1.21	30.7	light rain	F. W. Fickett.
Smith, Fort, Arkansas	29.65	753.1	30.13	765.3	53.8	12.1	74	e.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.07	763.8	30.11	764.8	58.5	14.7	94	ne.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.20	716.3	30.28	769.1	32	0.0	81	n.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.59	751.6	30.28	769.1	39	3.9	73	e.	5	2.2	.....	1 ck	4 s	w.	n.	0	0	fair	T. B. Jennings.
Stockton, Fort, Texas	26.98	685.3	30.01	762.2	65.0	18.3	90	se.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	Louis Dorman.
Tatoosh Id., Wash. Ter	30.12	765.0	.....	.....	41.5	5.3	96	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.26	692.4	29.97	761.2	39	3.9	42	w.	.....	.....	1	8 cs	0	nw.	.....	0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.59	751.6	30.29	769.4	37.5	3.1	55	n	5	2.2	.....	.....	10 s	.....	n.	0.03	0.8	cloudy	A. Buell.
Unalaskha, Alaska	30.16	766.1	30.18	766.6	46	7.8	68	sw.	14	6.3	.....	.....	10 n	.....	sw.	0.07	1.8	light rain	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.80	756.9	30.06	763.5	55.0	12.8	93	n.	5	2.2	.....	.....	10 n	.....	e.	0.15	3.8	light rain	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C.	30.20	767.1	30.32	770.1	47.3	8.5	91	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.37	9.4	light rain	T. B. Harrison.
West Las Animas, Colorado	26.06	662.4	30.01	762.2	42	5.6	92	e.	10	4.5	.....	.....	10 s	.....	.....	0	0	threatening	F. H. Brandenburg.
Wilmington, N. Carolina	30.07	763.8	30.13	765.3	57.5	14.2	90	ne.	7	3.1	.....	.....	10 s	.....	ne.	0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	28.94	735.1	30.27	768.8	36.2	2.3	84	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.70	751.4	29.85	758.2	57.2	14.0	77	calm	0	0	.....	0	9 s	.....	w.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	77	25.0	.....	nw.	.....	.....	1	2 c	1 ks	.....	nw.	0.70	17.8	clear	W. H. Jackson.
Bogota, U. S. C.	21.99	558.6	.....	.....	50.0	10.0	71	se.	2	1	.....	.....	10 s	.....	nw.	0.949	24.1	.....	Joaquin Gomez.
Kingston, Jamaica, W. I.	.....	.....	29.90	759.4	75.0	23.9	89	n.	1	0.4	.....	8 cs	2 s	.....	e.	0.30	9.1	cloudy	Robert Johnstone.
Paramaribo, S. A.	30.00	762.0	30.00	762.0	80	26.7	82	e.	.....	.....	3	5 ck	5 k	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.36	745.7	29.92	760.0	78	25.6	80	calm	.....	.....	0	.....	10 ks	.....	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	72.2	22.3	88	se.	.....	.....	1	ck	.....	sw	.....	1.30	33.0	cloudy	Earl Flint.
York Factory, B. A.	30.09	764.3	30.16	766.1	31.5	— 0.3	95	nw.	12	5.4	.....	4 k	4 s	nw	nw.	0	0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N 38° 20′, E. 26° 18′	30.14	765.5	72	22.2	67	nw.			1		1	nnw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	29.94	760.5	74	23.3	88	calm			0		4	calm						d. clouds.
H. M. S. Himalaya, N. 45° 20′, W. 21° 00′	30.37	771.4	60	15.6	76	w.			2		7	wsw.				2	w.	showery.
H. M. S. Iris, Alexandria, Egypt	30.12	765.0	74	23.3	81	nnw.			3		2							d. clouds.
H. M. S. Inflexible, N. 39° 38′, E. 19° 57′	30.13	765.3	73	22.8	90	ese.			1		3	ese.						d. clouds.
H. M. S. Monarch, Smyrna, Turkey in Asia	30.15	765.8	68	20.0	74	wsw.			2		0							blue sky.
H. M. S. Opal, Niger river, W. Africa	29.87	758.7	82	27.8	83	sw.			1		6	ssw.						d. clouds.
H. M. S. Superb, N. 36° 04′, E. 16° 14′*	30.03	762.7	73	22.8	85	sse.			1–3		4	n.				2	ssw.	misty.
H. P. M. S. Douro, St. Thomas, Gulf of Guiana	29.87	758.6	81.5	27.5	85	s.			3		10		s.			3	s.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.39	771.9	30	— 1.1	78	ne.	5	4.0			0			0	0			clear.
U. S. S. Jamestown, N 38° 45′, W. 72° 44′	30.26	768.6	55	12.8	87	ne.			6		10		ne.			mod.	ne.	overcast.
U. S. S. Kearsarge, Cartagena, Spain	30.05	763.3	69	20.6	39	ne.			2		5		ne.					fair.
U. S. S. Lancaster, Cartagena, Spain	30.06	763.5	68	20.0	95	nne.			2		8		ne.			sm'h		cloudy.
U. S. S. New Hampshire, Newport, R. I			40	4.4	82	nne.			2		8		e.			sm'h		fair.
U. S. S. Portsmouth, New York, N. Y	30.41	772.4	40	4.4	91	nne.			2		5		sw.					fair.
U. S. S. Powhatan, Boston, Mass	30.43	772.9	34	1.1	90	nnw.			1		8		nne.					cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	29.87	758.7	68	20.0	90	ssw.			2		8		ssw.					rainy.
U. S. S. Saratoga, Poughkeepsie, N. Y	30.44	773.2	40	4.4	91	ne.			2–3		5		ne.	0	0	sm'h	ne.	fair.
U. S. S. Swatara, Port au Prince, Hayti, W. I	29.89	759.2	81	27.2	78	calm			0		5		ene.	light	light	sm'h		fair.
U. S. S. Vandalia, off Dobbs Ferry, N. Y †	30.38	771.6	41	5.0	74	ne.			1		5							fair.
S. S. British Princess, N. 39° 15′ W. 66° 40′†	30.15	765.8	60	15.6		ne.			4		9		ne.	4 h'r	4 h'r	mod.	cross	overcast.
S. S. Lord Clive, N. 50° 04′, W. 31° 46′						sw.			6		7		w.	0	0	str'g	w.	cloudy.
S. S. Lord Gough, N. 50° 20′, W. 31° 40′	29.98	761.5	56	13.3		sw.			5		8		sw.	0	0	rg'h	sw.	cloudy.
S. S. Ohio, N. 51° 30′, W. 16° 10′†	30.03	762.7	50	10.0	?	w.			5		10		w.	0	0	mod	w.	cloudy
S. S. Circassian, N. 48° 32′, W. 68° 32′	30.48	774.2	32	0.0	100	nne.			2		5		nne.			1	nne.	d. clouds.
S. S. Nova Scotian, Halifax N. S.			44	6.7		nne.			3		10		nnw.					cloudy.
S. S. Prussian, N. 54° 48′, W. 18° 27′	29.65	753.1	55	12.8		wnw.			7		0?		w.	sh'rs	sh'rs	h'vy	wnw.	cloudy.
S. S. Alvo, off Castle Island, Bahamas *	29.88	758.9	79	26.1		se.			2		9		e.	0	0	short	ene.	fine.
S. S. Ailsa, Colon, U. S. C			76	24.4	95	calm			0		2		se.	0	0	sm'h		fine.
S. S. Avilla, N. 27° 56′, W. 68° 34′*†	30.10	764.5	77	25.0		e.			1		0			0	0		e.	
S. S. Assyria, N. 55° 22′ W. 12° 24′	29.66	753.4	52	11.1	93	sw.			6		10		sw.	0	0	r'gh	sw.	gloomy.
S. S. Devonia, N. 40° 30′, W. 70° 00′*†	30.32	770.1	47	8.3		ne.			3		7		nne.			sli't	nne.	fine.
S. S. Dorian, N. 42° 00′, W. 51° 20′	29.81	757.2	58	14.4		var.			1		10		sw.	10 h'r	10 h'r	mod.	se.	threatening
S. S. Carroll, N. 43° 44′, W. 64° 47′*†	30.35	770.9	42	5.6	83	ne.			4		8		ne.	rain	rain	long	ene.	squally.
S. S. Llandaff City, New York, N. Y †	30.36	771.1	42	5.6		nne.			6		7		ne.	0	0			cloudy.
S. S. Cephalonia, N. 48° 31′, W. 33° 03′	30.17	766.3	61	16.1	94	wsw.			4		7		wsw.	0	0	sli't	w.	d. clouds.
S. S. Bothnia, N. 45° 16′, W. 41° 54′	30.04	763.0	69	20.6	100	s.			5		8		s.	0	0	mod	s.	gloomy.
S. S. Scythia, N. 51° 18′, W. 14° 50′	30.07	763.8	54	12.2	93	wsw.			3		10		wsw.	1 h'r	1 h'r	long	wnw.	
S. S. Samaria, N. 42° 00′ W. 60° 40′*	30.03	762.7	51	10.6		n.			5		8		n.	2 h'r	2 h'r	rg'h	n.	cloudy.
S. S. France, N. 49° 47′, W. 14° 48′*†	30.22	767.6	51.8	11.0		wsw.			4		10		w.	0	0	h'vy	w.	overcast.
S. S. Arizona, N. 51° 21′, W. 22° 00′	30.05	763.3	57	13.9		wsw.			5		8		w.	0	0	mod.	w.	cloudy.
S. S. Wyoming, N. 43° 04′, W. 61° 04′	30.12	765.0	47	8.3		n.			5		7		nw.			long	ene.	misty.
S. S. Bohemia, N. 48° 34′, W. 32° 12′						sw.			5		8		sw.	3 h'r	3 h'r	r'gh	sw.	cloudy
S. S. Gellert, N. 49° 42′, W. 7° 40′			57	13.9	87	nw.			2		2		wnw.	5 h'r	5 h'r	sm'h	nw.	fair.
S. S. Silesia, N. 49° 50′, W. 21° 35′	30.15	765.8	55	12.8		wsw.			5		9		wsw.	0	0	long	w.	overcast.
S. S. Westphalia, N. 41° 07′, W. 66° 30′	30.23	767.8	45	7.2	?	n.			4–6		6		n.	1 h'r	1 h'r	mod.	n.	fair.
S. S. Bulgarian, N. 43° 00′, W. 68° 40′*	30.44	773.2				n.			4		4		n.	0	0	light	n.	clear.
S. S. Archimedes, N. 27° 36′, W. 18° 20′	29.95	760.7				ene.			3		0			0	0	light	nne.	fine.
S. S. Hevelius, Liverpool, Eng†	29.92	760.0	54	12.2		w.			4				w.	3 h'r	3 h'r			cloudy.
S. S. Rosse, N. 5° 21′, W. 27° 46′*	29.90	759.4	82	27.8		sse.			3		6?		se.	4 h'r	4 h'r	cross	var.	clear,?
S. S. Sirius, N. 3° 37′, W. 44° 02′	29.90	759.4				ese.			2		0			0	0			clear.
S. S. Rio Grande, N. 24° 27′, W. 83° 00′†	29.85	758.2	79	26.1		s.			2		2		ssw.	16 h'r	16 h'r	small	se.	clear.
S. S. Chalmette, Algiers, La†	29.95	760.7	70	21.1		ne.			3		8		ene.	0	0			cloudy.
S. S. New York, N. 24° 55′ W. 80° 30′ *†	29.88	758.9	79	26.1		w.			3		3		s.	10 h'r	10 hr	sm'h		squally.
S. S. Lone Star, N. 28° 10′, W. 88° 08′ *†	29.88	758.9	78	25.6		ene.			3		3		ese.	0	0	large	ese.	clear.
S. S. Alleghany, Boston, Mass†	30.47	773.9	36	2.2		ne.			4		4?		ne.	0	0			cloudy.
S. S. Archimede, N. 37° 33′, W. 52° 25′†	29.82	757.4	78	25.6		ssw.			5		7		ssw.	3 h'r	3 h'r	h'vy	sse.	cloudy.
S. S. City of Washington, N. 21° 20, W. 89° 38′*†	29.85	758.2	85	29.4		ne.			2		2		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, Tunas de Zarza, Cuba, W. I			77	25.0		ne.			1		3		sw.	5 h'r	5 h'r			fine.
S. S. Egypt, Staten Island, N. Y			54	12.2		ne.			3		8		ne.	0	0			fair.
S. S. Grecian, Glasgow, Scotland	29.87	758.7	50	10.0	86	se.			3		10		se.	2 h'r	2 h'r			cloudy.
S. S. England, N. 40° 42′, W. 62° 43′	30.14	765.5				n.			4		8		n.	0	0	mod.	n	cloudy.
S. S. Erin, N. 46° 24′, W. 36° 31′			62	16.7		s.			6		7		sw.	sh'rs	sh'rs	sm'h	w.	fair.
S. S. The Queen, N. 49° 12′, W. 31° 55′			57	13.9		ssw.			6		5		wsw.	4 h'r	4 h'r	mod	sw.	fair.
S. S. America, N. 40° 30′, W. 60° 00′*	29.88	758.9	63.0	17.2	83	nne.			6		8		nne.	0	0	r'gh	nne.	cloudy.
S. S. Donau, N. 41° 24′ W. 64° 15′	30.26	768.6				nne.			6		9		nne.	0	0	r'gh	nne.	cloudy.
S. S. Habsburg, N. 49° 35′, W. 24° 27′	30.24	768.1				w.			6		10		wnw.	0	0	long	w.	cloudy.
S. S. Orinoco, Hamilton, Bermuda, Atlantic			74	23.3		calm			0		2			1 h'r	1 h'r			clear.
S. S. Oder, N. 48° 00′, W. 38° 55′	30.07	763.8	63.5	17.5		ssw.			4–5		4		sw.	0	0	mod.	ssw.	fair.
S. S. Ohio, Baltimore, Md	30.38	771.6				ne.			3		10		ne.	3 h'r	3 h'r			cloudy.
S. S. Salier, N. 49° 40′, W. 13° 23′*	30.10	764.5	55.6	13.1		w.			4		10		w.	6 h'r	6 h'r	high	n.	covered.
S. S. Strasburg, N. 49° 28′, W. 24° 34′	30.25	768.3	56.0	13.3	81	w.			4		10		w.	0	0	4–5	w.	cloudy.
S. S. Werra, N. 50° 02′, W. 31° 00′			55.4	13.0		wsw.			5		2		wsw.	0	0	mod	wsw.	fine.
S. S. Weser, N. 34° 42′, W. 74° 02′	30.08	764.0	69.8	21.0		e.			3		10		e.	7 h'r	7 h'r	long	ne.	rainy.
S. S. Belgenland, N. 48° 27′, W. 25° 01′					95	w.			6		10		nw.	0	0	long	nw.	overcast.
S. S. Rhynland, N. 49° 53′, W. 8° 11′	30.16	766.1	55	12.8		nw.			4		5?		nw.	0	0	mod.	w.	clear?
S. S. Pennland, Antwerp, Belgium			50	10.0	86	sw.			3		0			0	0			clear.
S. S. Switzerland, N. 41° 40′ W. 64° 14′*†	30.19	766.8				nne.			3		8		nne.	0	0	r'gh	nne.	cloudy
S. S. Waesland, New York, N. Y	30.40	772.1	44	6.7		ene.			5		10		ene.	0	0			overcast.
S. S. P. Caland, N. 49° 50′, W. 7° 55′	30.10	764.5	54.7	12.0	98	w.			3		5		w.			4	w.	fair.
S. S. Zaandam, N 50° 01′, W. 7° —	30.20	767.1	58.3	14.6	76	wnw.			3		3		e.	0	0			clear.
S. S. Caracas, LaGuayra, Venezuela *†	29.90	759.4	80.5	26.9	80	calm			0		0			0	0	light	ne.	clear.
S. S. W. A. Scholten, N. 45° 14′ W. 49° 26′	29.92	760.0	56.3	13.5	100	sw.			4		10		sw.	23 h'r	23 h'r			foggy.
S. S. State of Alabama, N. 47° 45′, W. 24° 45′			58	14.4		nw.			6		8		nw.	sh'rs	sh'rs	sm'h	nw.	cloudy.
S. S. Thingvalla, N. 53° 42′, W. 34° 42′ †	30.03?	762.7?	42.8	6.0		wnw.			4		10		wnw.	0	0	h'vy	wnw.	covered.
S. S. Romano, N. 42° 13′, W. 44° 42′			71	21.7		s.			4		3		s.	0	0	sm'h		clear.
S. S. Salerno, N. 43° 00′, W. 60° 30′ *†	30.05	763.3	48	8.9		n			4		8		n.	0.3	8.	long	nne.	rainy.
S. S. Ontario, Point Anticosta, Canada	30.23	767.8	36	2.2		nne.			3		2		nne.	0	0	sm'h	n.	clear.
S. S. Oregon, N. 56° 04′, W. 27° 36′	29.51	749.5	42	5.6		w.			8		10		w.			h'vy	w.	cloudy.
S. S. Quebec, N. 56° 03′, W. 27° 25′	29.58	751.3	42	5.6		w.			8		7		wsw.	0	0	r'gh	w.	cloudy.
S. S. Texas, N. 46° 51′, W. 7° 36′ *†	30.07	763.8	56	13.3	87	n.			1		2		nw.	0	0	sm'h		clear.
S. S. Lake Huron, Quebec, Quebec	30.47	773.9	27	— 2.8		sse.			2		0			0	0	sm'h		clear.
S. S. Olbers, N. 40° 28′, W. 64° 23′	30.19	766.8	52	11.1	100	n.			5		9		nne.	1 h'r	1 h'r	r'gh	var.	cloudy.
S. S. Daniel Steinmann, N. 40° 33′, W. 67° 47′ †	30.30	769.6	49	9.4		nne.			5		10			0	0	r'gh	ne.	overcast.
S. S. Plantyn, N. 50° 46′, W. 12° 11′									5		4		wsw.	6 h'r	6 h'r	hv'y	wsw.	squally.
S. S. Celtic, Liverpool, Eng †	30.04	763.0	47	8.3		sw.			6		8		w.	5 h'r	5 h'r	sm'h		squally.
S. S. Germanic, N. 51° 22′, W. 11° 00′*†	30.03	762.7	54	12.2		wsw.			5		10		sw.	0	0	short	wsw.	gloomy
S. S. Republic, N. 48° 01′, W. 42° 33′ *†	29.96	761.0	58	14.4		ssw.			5		8		w.	0	0	mod.	w.	cloudy.
S. S. Iowa, N. 51° 35′, W. 14° 52′ †	29.98	761.5	56	13.3		w.			5		10		w.	0	0	r'gh	w.	cloudy.
S. S. Assyrian Monarch, N. 47° 32′, W. 43° 48′	30.01	762.2				sse.			4		8		sw.	1 h'r	1 h'r	mod.	s.	hazy.
Bk. Arda, N. 21° 10′, W. 52° 40′						e.			2		4		e.	0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 39′, E. 18° 47′	29.89	759.2	51	10.6	86	wsw.			2		5		wsw.	2 h'r	2 h'r			fair.
Bg. Abbie Clifford, St. Pierre, Martinique†	29.91	759.7	82	27.8							2			0	0			fine.
Schr. Arthur Burton, Charleston, S. C. †	30.07	763.8				ne.			3		10		ne.	0	0	chop	ne.	overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Abbie H. Gheen, Baltimore, Md.†	30.38	771.6	58	14.4		nne.			1									cloudy.
S. S. Antonio Lopez, Cadiz, Spain*	30.11	764.8	69	20.6	56	wsw.			1	2 c				0	0			clear.
Bg. Alcira N. 17° 40′, W. 67° 33′	29.95	760.7	82	27.8		ne.			2		2		nne.	0	0	cross	n.;e.	clear.
Schr. Adda Doane, Demerara, British Guiana *†	29.90	759.4				e.			2		2		e.	0	0			clear.
Bg. Belle of the Bay, N. 25° 20°, W. 89° 28′ †..	29.84	757.9				ne.			4		3		ene.	rain	rain	sm'h	ene.	clear.
S. S. Burswell, near Malta, Med			84	28.9		sse.			3		8		sw.	1 h'r	1 h'r	light	se.	squally.
Bk. Ceylon, N. 0° 22′, W. 30° 32′†	29.91	759.7	82	27.8	87	ese.			4		3		se.	0	0	mod.	se.	clear.
Schr. Clotilde, N. 24° 17′, W. 86° 27′†	29.86	758.4	82	27.8		ne.			4		5		ne.	4 h'r	4 h'r	cross	var.	clearing.
Schr. C. R. Flint, N. 12° 09′, W. 63° 05′			83	28.3		ene.			2		2		ene.	0	0	mod.	ne.	clear.
S. Carondelet, N. 36° 00′, W. 60° 23′*†	29.99	761.7				n.			4		4		nne.	2 h'r	2 h'r	mod.	n.	fair.
S. S. D. J. Foley, N. 29° 40′, W. 75° 10′*†	30.05	763.3	76	24.4	82	ese.			3		9		se.	0	0	long	e.	cloudy.
S. Dynomene, N. 1° 56′, W. 24° 15′	29.90	759.4	79	26.1	89	se.			3		5			light	light	mod.	se.	misty.
S. E. J. Spicer, N. 40° 40′, W. 71° 04′	30.36	771.1	54	12.2	93	n			5		10		n.	0	0	mod	ne.	cloudy.
Bk. E. D. Bigelow, N. 27° 35′, W. 92° 57′ †	29.86	758.4	81	27.2		ene.			2					5 h'r	5 h'r	sm'h		gloomy.
S. Festina Lente, Greenock, Scotland	29.81	757.2	49	9.4		sw.			6		10		sw.	0	0	sm'h		cloudy.
U. S. Fish. Com. S. S. Fish Hawk, Brooklyn, N.Y†	30.35	770.9	43	6.1	83	ne.			2		10		calm	0	0			cloudy
Bk. Galeon, N. 24° 46′, W. 67° 45′†	29.95	760.7	79	26.1		ene.			3		0			0	0	long	nne.	blue sky.
Bk. Hattie G. McFarland, N. 22° 23′, W. 60° 37′†	30.03	762.7	80	26.7		ese.			2		3		se.	8 h'r	8 h'r	long	se.	fine.
S. Hedwig, N. 33° 45′, W. 75° 36′	30.08	763.9	73.2	22.9	91	ene.			3		8		var.	3 h'r	3 h'r	3	ene.	rainy.
Bk. Heinrich & Tonio, N. 42° 45′, W. 26° 00′ †	30.48	774.2	63.5	17.5		calm			0		5		n;sw.	0	0	light	n.	fair.
Schr. Isabel Alberto, N. 31° 28′, W. 79° 36′†	30.08	764.0				e.			1		10		var.	hv'y	h'vy	high	var.	squally.
Schr. Jennie N. Huddell, N. 33° 45′, W. 77° 00′ †	30.10	764.5	75	23.9	90	ne.			5		8		ne.	2 h'r	2 h'r	h'vy	ne	threatening.
Bk. John H. Pearson, N. 21° 30′, W. 27° 11′						ne.			4				ne.	0	0	long	ne.	clear.
Schr. John Bracewell, Dover, N. H						n.			1		0			0	0			clear.
Bg. Josefa, N. 42° 16′, W. 65° 06′ †	30.31	769.9				nne.			6		4		ne.	4 h'r	4 h'r	r'gh		fair.
Bkt. John Baizley, N. 40° 02′, W. 65° 50′*†	30.26	768.6				nne.			5		10		nne.	driz.	driz.	long	ne.	cloudy.
Bg. Lilian, N. 38° 00′. W. 74° 25′ †..	30.22	767.6	59	15.0		ne.			5		10		ne.	0	0	rg'h	var.	cloudy.
Bg. L. & W. Armstrong, N. 35° 46′, W. 70° 21′*†	30.08	764.0				e.			6		5		e.	2 h'r	2 h'r	sm'h	e.	clearing.
S. S. Madrid, N. 37° 15′, E. 3° 32′ †	29.98	761.5	69	20.6	90	w.			6		2		wnw.	2 h'r	2 h'r	r'gh	w.	fair
S. S. Mendoza, N. 2° 37′, W. 41° 40′						sse.			3				sse.	0	0	sm'h	se.	clear.
Bk. Matthias, N. 44° 38′, W. 38° 06′ *†	30.28	769.1	70.0	21.1		ssw.			6		4		sw.	0	0	4	ssw.	hazy.
Schr. Norena, N. 22° —′, W. 63° —′ *†	30.03	762.7				e.			2		8		ese.	4 h'r	4 h'r	mod.	var.	showery.
Bk. National Eagle, N. 38° 27′, E 8° 27′						wnw.			3		5		wnw.	0	0			fair.
Schr. Rollin Sanford, N. 29° 40′, W. 85° 52′ †	29.98	761.5				ne.			4		8		e.	0	0	long	ese.	cloudy.
Bg. Rising Sun, N. 15° 00′, W. 60° 50′†	29.97	761.2	82	27.8		se.			4		3		se.	0	0	long	e.	clear.
Bk. Rosalie, N. 4° 45′, W. 27° 34′*†	29.89	759.2				ese.			3		3		ese.	2½h'r	2½h'r	long	sse.	clear.
Bk. Saga, N. 54° 18′, E. 6° 07′ *†	29.88	758.9	54	12.2		var.			3–6		4		w.	2½h'r	2½h'r	r'gh	nw.	fair.
S. Salisbury, N. 37° 03′, E. 2° 05′	29.97	761.2	70.0	21.1	92	wsw.			1		6 kn		wsw.	½h'r	½h'r	r'gh	wsw.	fair.
Bgt. Sunlight, N. 29° 20′, W. 60° 10′ †.	29.94	760.5				sw.			2		2			0	0	cross	var.	clear.
Bk. Samuel B. Hale, N. 19° 43′, W. 30° 40′*†	30.10	764.5				e.			5				e.	0	0	short	e.	fine.
Bk. Sunbeam, Rotterdam, Holland †	29.94	760.5	52	11.1	79	ssw.			3		3		sw.	0	0			clear.
S. St. Francis, N. 30° 53′, W. 40° 15′ *†	30.33	770.4	80	26.7		ese.			4		2		e.	4 h'r	4 h'r	long	ne.	fair.
Bk. Southern Belle, N. 30° 00′, W. 25° 20′ †	30.17	766.3	70	21.1		ese.			3		0			0	0	long	nw.	clear.
Schr. Walter L. Plummer, N. 23° 27′, W. 52° 46′*†	30.02	762.5				ese.			2		1		sse.			mod.	se.	clear.
Bk. Pilgrim, N. 3° 56′, W. 38° 10′*†	29.90	759.4				se.			3		5		var.	1 h'r	1 h'r	mod.	var.	
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.84	757.9	55.5	13.1	81	sw.			2–3		2	nw.				2	ssw.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.02	762.5	64	17.8	95	s.			2		7	s.						d clouds.
H. M. S. Orontes, S. 12° 35′, E. 6° 56′	29.91	759 7	66	18.9	84	sse.			2		10					5	sse.	overcast.
H. M. S. Sylvia, Montevideo, Uruguay	29.94	760.5	56	13.3	70	ssw.			3–5		7							squally.
U. S. S. Brooklyn, S. 32° 39′, W. 9° 27′ *†	30.29	769.4	64	17.8	83	ese.	8	3.6			5		ese.	0	0	sm'h		fair.
U. S. S. Nipsic. Montevideo, Uruguay *	29.85	758.2	54	12.2	80	ssw.			4		2		sw.			sm'h		clear.
Bk. Alpheus Marshall, S. 20° 46′, W. 24° 02′*†	30.05	763.3	72	22.2	95	ese.			4		6		se.	1 h'r	1 h'r	mod.	se.	fair.
Bk. Bore, S. 28° 11′, E. 7° 40′ *†	30.57	776.5	68	20.0		se.			4		9		se.	0	0	sm'h	s.	cloudy.
S. David Crockett, S. 14° 57′, W. 26° 34′*	29.97	761.2	78.5	25.8	76	e.			5		5		e.	24 h'r	24 h'r	mod.	ese.	raining.
Bk. E. L. Pettingill, S. 56° 14′. W. 65° 43′*†	29.80	756.9	40	4.4		sw.			2		8		wsw.	0	0	long	wsw.	cloudy.
S. Frank N. Thayer, S. 34° 47′, E. 17° 58′*†	30.05	763.3	64	17.8	67	ssw.			2		10 ks		w.	0	0	mod.	ssw.	d clouds.
Bg. John Wesley, S. 2°, 56′, W. 36° 37′*†	29.83	757.7	82	27.8		ese.			6		2			0	0	long	e.	hazy.
Bkt. Louise Adelaide, S. 34° 50′, W. 55° 30′†	30.02	762.5				sw.			4		1		sw.	18 h'r	18 h'r	chop	se.	clear.
Bgt. Willie, Montevideo, Uruguay*†	29.82	757.4	56	13.3		w.			6		2		w.	12 h'r	12 h'r	short	sw.	clear.
Bk. Childwall, S. 37° 06′, W. 26° 41′*	29.95	760.7	64	17.8		ne.			6		6		e.	0	0	sm'h	nw.	fair.
Bk. Achille F, S. 0° 15′, W. 37° 30′ †	29.90	759.4	82	27.8		ese.			5		2		se.	0	0	mod.	s.	clear.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	30.07	763.8	68	20.0	90	e.			2		2	e.						blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.85	758 2	83	28.3	83	nw.			1		6							d. clouds.
H. M. S. Flying Fish, N. 31° 10′, E. 124° 00′	30.08	764.0	75	23.9	86	s.			4		4	s.				3	s.	d. clouds.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.81	757.2	82.9	28.3	75	s			1		8							d. clouds.
H. M. S. Zephyr, N. 25° 59′, E. 119° 25′	30.09	764.3	77	25.0		ne.			1.		9	ne.						d. clouds.
H. P. M. S. Tamega, Macao, China	30.04	762.9	80.6	27.0	77	e.			4		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.17	766.3	64	17.8	89	calm			0		1		w.	0	0			clear.
U. S. S. Essex, Nagasaki, Japan	30.08	764.0	72	22.2	85	nne.			1		2							clear
U. S. S. Hartford, N. 8° 42′, W. 84° 20′*	29.77	756.1	77	25.0	95	ssw.			4–6		10		var.	rain	rain	cross		cloudy.
U. S. S. Juniata, Canton, China	30.01	762.2	80	26.7	91	ssw.			1		2			0	0			clear.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.15	765.8	63	17.2	83	wnw.			1		10		calm					cloudy.
U. S. S. Pensacola, Yokohama, Japan			69	20.6	75	ne.			2		2			0	0			clear
U. S. S. Ranger, Mare Island, Cal	30.07	763.8	51	10.6	80	calm			0		0			0	0			clear.
U. S. S. Richmond, Yokohama, Japan	30.14	765.5	68	20.0	84	ese.			1		0			0	0			clear.
S. S. Oceanic, N. 32° 26′, E. 133° 48′	30.16	766.1	73	22.8	76	nw.			4		2		wnw.	0	0	sm'h		clear.
S. S. Columbia, N. 42° 45′, W. 124° 45′†	30.04	762.9	49	9.4	78	nne.			5		0					light	n.	clear.
S. S. Oregon, Columbia River, Oregon†	30.17	766.3	42	5.6	94	calm			0									clear.
S. S. Ancon, San Francisco, Cal.†	29.98	761.5	49	9.4	87	calm			0		0			0	0			light fog.
S. S. Dakota, Seattle, Wash. Ter			59	15.0	82	baff.					10			0	0	mod.	s.	foggy.
S. S. Orizaba, N. 33° 46′, W. 118° 25′ *†	29.96	761.0	63	17.2	100	s.			1		0			0	0	sm'h	w.	clear.
S. S. Queen of the Pacific, N. 41° 03′, W. 124° 36′†	30.01	762.2	49	9.4	94	nnw.			3		0			0	0	light	nw.	clear.
S. S. Victoria, Nanaimo, B. C			39	3.9	94	calm			0		2							fair.
S. S. City of Pekin, Yokohama, Japan†	30.15	765 8	63	17.2	83	nnw.			2		5		n	0	0			fair.
S. S. City of Sydney, Honolulu, Sandwich Islands*†	29.95	760.7	74	23.3	63	ne.			2		8 k†		nne.			long	n.	clear.†
S. S. City of Tokio, N. 37° 54′, W. 122° 38′†.	30.05	763 3	59	15.0	88	s.			3		10		s.	0	0	sm'h		cloudy.
S. S. Colima, Panama, Panama†	29.87	758.7	79	26.1	78	sw.			3		5		ssw.	0	0			clear.
S. S. San Blas, N. 17° 18′, W. 101° 32′†	29.80	756.9	80	26.7		nw.			5		10		wnw.	0	0	mod.	wsw.	cloudy.
S. S. San Juan, N. 21° 34′, W. 105° 15′†	29.79	756.7	83	28.3		se.			1	2 ck		se.		0	0	light	se.	clear
S. S. Zealandia, N. 34° 41′, W. 130° 25′	30.00	762.0	65	18.3	78	sse.			6		10			3 h'r	3 h'r	r'gh	sw.	squally.
S. S. Alameda, N. 21° 25′, W. 155° 40′†	30.03	762.7	75	23.9		nne.			2		9		n.	0	0	light	nne.	cloudy.
S. Parker M. Whitmore, N. 20° 40′, W. 123° 30′ *†	29.90	759.4	74	23.3		sse.			2		1		sse.	7 h'r	7 h'r	mod.	se.	clear.
S. S. Strathleven, N. 12° 45′, E. 111° 25′	29.87	758.7	82.4	28.0	83	ne.			1		1			hv'y	hv'y	2	ne.	blue sky.
S. Sovereign of the Seas, N. 9° 22′, W. 118° 27′			81	27.2	91	wsw.			1		3		n.	0	0	short	s.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.85	758.2	79.3	26.3	91	ne.			2		8					sm'h		showery.
H. M. S. Mutine, Coquimbo, Chili	29.95	760.7	57	13.9		wnw.			3		10							overcast.
H. M. S. Nelson, Sydney, N.S. W	29.79	756 7	63	17.2	62	calm			0		0							blue sky.
U. S. S. Iroquois, Callao, Peru	30.02	762.5	63	17.2	83	ssw.			2		8					sm'h		cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Lackawanna, Valparaiso, Chili *	29.91	759.7	56	13.3	75	calm			0		0							clear.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	61	16.1	82	sw.			1		10		s			mod.	w.	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili*	30.13	765.3	58	14.4	88	calm			0		2.		calm			sm'h		fair.
S. S. Australia, Sydney, N. S. W	30.10	764.5	63	17.2	94	calm			0		10?			0	0			clear?
S. S. City of New York, Sydney, N. S. W †	29.99	761.7	62	16.7	83	wsw.			2		8		ssw.	0	0			cloudy.
S. E. B. Sutton, S. 20° 20′, W. 128° 30′ *†	30.05	763.3	76	24.4	91	ene.			4		3		ene.	0	0	h'vy	se.	clear.
S. Armenia, S. 49° 35′ W. 102° 00′ *	29.62	752.3	48	8.9	85	nw.			5		9		nw	½ h'r	½ h'r	r'gh	var.	hazy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9		se.			3		10		se			long	se.	overcast.
S. Storm King, S. 25° 35′, W. 124° 33 *†	30.14	765.5				ene.			6		3		ene.	0	0	long	sw;e.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.89	759.2	80	26.7	82	sse.			1		5	calm						d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.89	759.2	79	26.1	86	e.			4		2	sse.				2	sse.	blue sky.
H. M. S. Woodlark, Bushire, Persia	30.05	763.3	83.5	28.6	60	nw.			5–6		8	calm				1	nw.	squally.
Bk. Great Surgeon, S. 26° 10′, E. 101° 15′ *†	30.29	769.4	65	18.3		ese.			5		10		e.	1 h'r	1 h'r	sm'h	se.	cloudy.
Bk. Mohican, S. 42° 05′, E 30° 15′	29.40	746.7	55	12.8		nw.			7		9		nw.	4 h'r	4 h'r	long	nw.	cloudy.
S. S. Radnorshire, N. 19° 49′, E. 38° 56′*†	29.90	759.4				n.			4		0			0	0	mod.	n.	fine.
S. S. Galatia, N. 13° 05′, E. 47° 28′†	29.76	755.9	88	31.1	80	ene.			3		0			0	0	mod	ne.	clear.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 23, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours			30.11	764.7	68.0	20.0	87	n.			1		0			0	0	clear	Roziere.
Algiers			30.07	763.8	75.9	24.4	31	n.			2		0			0	0	clear	Thève.
La Galle			30.00	762.0	63.3	17.4	84	nnw.			3		5			0.315	8.0	cloudy	Fonfrède.
Tunis			30.02	762.4	69.1	20.6	56	n.			4		4			0	0	cloudy	Delord.
Saida			30.16	766.1															Pérès.
Tebessa					52.2	11.2	74	nne.			3		2			0.669	17.0	fair	St. Martin.
Geriville					66.9	19.4	37	ne.			2		0			0	0	clear	Forfert.
Laghouat			30.11	764.7	73.8	23.2	46	ne.			3		0			0	0	clear	Abraham.
Biskra			30.05	763.3	81.0	27.2	42	e.			2		2			0	0	fair	Gouzon.
AUSTRALIAN.																			
Adelaide, South Australia			29.76	755.9	76.3	24.6	31	n.	16	7.2			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.78	756.4	29.88	758.9	65.4	18.6	64	ne.	9	4.0			3			0	0	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.43	747.4	29.99	761.7	44.6	7.0	79	s.			2		10			0.976	24.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.8	30.03	762.8	43.5	6.4	91	ne.	3.8	1.7			10			0.350	8.9		Dr. Wierzbiski
Eperies	29.02	737.0	29.90	759.5	47.5	8.6	88	calm			0		10 s			0.335	8.5		Julius Mikolik.
Gratz	28 75	730.3	30.02	762.4	48.7	9.3	83	sw.			2		10			0.724	18.4		Andreas Rospini.
Hermannstadt	28.50	724.0	29.89	759.1	69.3	20.7	50	se.			3		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.6	30.08	764.1	41.4	5.2	89	w.			2		10			0	0	gloomy	The Staff.
Lemberg	28.94	735.0	29.94	760.4	46.9	8.3	91	ne.			1		10			0.512	13.0		Dr. T. Stanecki.
Pola	29.76	755.8	29.86	758.5	62.6	17.0	76	w.			3		8			1.161	29.5		I. R. Hydrographic Office.
Szathmar	29.41	747.0	29.87	758.6	63.3	17.4	75	sw.			2		8			0.465	11.8		Joseph Midlinszky, S. J
Szegedin	29.03	752.6	29.91	759.8	51.8	11.0	91	nw.			2		10			0.520	13.2	raining	Karl Stancel.
Trieste	29.82	757.4	29.92	759.9	59.4	15.2	64	e.			3		10			0.181	4.6		Royal Academy.
Vienna	29.35	745.4	30.08	764.0	43.9	6.6	84	w.			2		10			0.091	2.3		I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.25	742.9	29.35	745.5	48.1	8.9	50	sw.	17	7.6			2			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.37	746.0	29.61	752.1	48.1	8.9	78	sw.	12	5.4			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.62	752.3	50.3	10.2	70	w.	31	13.9			7					d. clouds	John Hartnup.
Bolton, Sharples	29.07	738.4	29.60	751.8	49.8	9.9	70	w.	18	8.0			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.18	741.2	29.57	751.1	49.6	9.8	71	nw.			4		5			0.07	1.8	d. clouds	McLandsborough & Preston.
Cardington	29.58	751.3	29.69	754.1	55.5	13.1	75	nw.			2.0		8					overcast	John McLaren.
Chatham, School M. E.	29.58	751.3	29.75	755.6	53.3	11.8	90	sw.			1		10			blank	blank	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.63	752.6	29.86	758.4	55.6	13.1	94	w.			4		10					drizzling	The Staff.
Fort Napier, Natal	27.37	695.2	29.59	751.6	80.5	26.9	72	ne.			1		3					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.74	755.4	29.97	761.2	83	28.3	87	sw.			3		0?					raining?	J. W. Smith.
Galway, Queen's College	29.00	751.8	29.64	752.8	51	10 6	72	w.			2		6			0.51	13.0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.19	766.8	30.24	768.1	64.0	17.8	89	ne.			2		4					d. clouds	Sgt. F. Norris, A. H. C.
Glasgow, Observatory	29.24	742.7	29.45	748.0	45.7	7.6	78	wsw.			3		3 k					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.56	750.8	29.73	755.1	53.2	11.8	86	sw.			4		10					showery	The Staff.
Guernsey	29.61	752.1	29.90	759.4	55.4	13.0	97	wsw.			5		9					showery	A. Collenette, F. M. S
Kew, Observatory	29.70	754.4	29.74	755.4	54.1	12.3	80	wsw.	16	7.2			10					overcast	The Staff.
Leicester, Museum	29.36	745.7	29.62	752 3	57.0	13.9	86	sw.			2		3					d. clouds	J. C. Smith.
Malta, Mediterranean	29.95	760 7	30.02	762.5	75.0	23.9	85	se.			2		2			0	0	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.80	758.4	29.90	759.4	79.2	26.2	94	s.			1		9			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.13	739.9	29.65	753.1	53.3	11.8	83	wnw.			4		3					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.48	748.8	29.70	754.4	55.1	12.8	87	sw.			4		8					d. clouds	The Staff.
Plymouth	29.74	755.4	29.82	757.4	55.4	13.0	97	wsw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.11	739.4	29.21	741.9	45.1	7.3	82						2					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.96	761.0	30.03	762.7	70.8	21.6	65	sw.			1		2					blue sky	W. H. Lyne.
Sheffield	29.34	745.2	29.62	752.3	51.6	10.9	83	wsw.			2		2			0.05	1.3	d. clouds	W. F. Cooper.
Silloth Rectory	29.51	749.5	29.54	750.3	50.2	10.1	78	wsw.			2		8			0.050	1.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.61	752.1	50.0	10.0	66	w.	22	9.8			8					d. clouds	Rev. C. H. Griffiths, F.M.S
Strathfield Turgiss					55.9	13.3	87	sw.			1.5		9					showery	Rev. S. J. Perry.
Truro, Royal Institution	29.82	757.4	29.88	758.9	58	14.4	88	w.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.77	756.1	29.79	756.7	53.0	11.7	67	w.	21	9.4			8					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.72	754.9	30.11	764.8	71.2	21.8	74	nw.	13.7	6.4		4 c	0	w.		0	0	fair	Rev. Ph. Borrello.
CANADIAN.																			
Bathurst, N. B	30.38	771.6	30.42	772.7	25.0	— 3.9		calm	0	0		0	3 n			0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.37	771.4	30.41	772.4	36	2.2	71	n.	3	1.3		0	5 s		n	0.025	0.6	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.38	771.6	30.44	773.2	21	— 6.1	96	sw.	1	0.4		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	30.10	766.1	30.36	771.1	46.3	7.9	86	e.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B	30.39	771.9	30.44	773.2	25.0	— 3.9		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T *	27.54	699.5			12	—11.1	61	se.	1	1.8		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.40	772.1	30.43	772.9	20	— 6.7	87	ssw.	8	3.6		2 cs	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.59	751.6	30.47	773.9	33	0.6	81	calm	0	0			10 s		sw.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.42	772.7	30.50	774.7	22.0	— 5.6	93	e			1	0	0			0	0	blue sky	Prof. Thos. Harrison.
Grand Manan, N. B	30.41	772.4	30.47	773.9	36	2.2	69	nw.	3	1.3		5 c	0			0	0	hazy	J. Chipman Seeley
Granton, Ontario	29.23	742.4	30.38	771.6	35.0	1.7	90	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.31	769 9	30.45	773.4	33	0.6	81	calm	6	2.7		0	0			0	0	clear	A. Allison.
Hamilton, Ontario	29.93	760.2	30.33	770.4	39.5	4.2	91	ne.			1	10 cs	0	e.		0	0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	30.00	762.0	30.34	770.6	46	7.8	77	s.	7	3.1			10 k		w.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.30	769.6	30.34	770.6	39.0	3.9	73	n.			6		10 n			0.25	6.3		C. H. Rigby.
London, Ontario	29.41	747.0	30.35	770.9	37.7	3.2	82	calm			0		10 n			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.92	708.6	30.25	768.3	35	1.7	79	nw.	40	17.9		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.43	722 1	30.42	772.7	31	— 0.6	88	sw.	6	2.7			10 s		sw.	inap.	inap.	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.20	767.1	30.42	772.7	33	0.6	85	ne	4	1.8			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.16	766.1	30.30	771.9	35.9	2.2	95	e.					10 s			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.66	753.4	30.39	771.9	34	1.1	89	calm	0	0		5 k	5 ks	ne.	ne.	0	0	cloudy	Rev. R. Mosley.
Peterboro, Ontario	29.60	751.8	30.37	771.4	38.7	3.7	70	ne.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.80	756.9	30.54	775.7	34	1.1	88	nw.	5	2.2		5 k	2 ks	nw.		0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.61	752.1	30.33	770.4	39	3.9	71	ne.	9	4.0			10 ks		n.	0	0	cloudy	H. Morgan
Port Stanley, Ontario	29.66	753.4	30.33	770.4	39	3.9	76	n.	6	2.7			10 n		ne.	0	0	cloudy	M. Payne.
Qu'Appelle, N. W. T	28.04	712.2	30.46	773.7	21	— 6.1	100	sw.	4	1.8		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.07	763.8	30.45	773.4	25	— 3.9	100	calm	0	0		0	c			0	0	clear	Capt. Asne, R. N.
Rockliffe, Ontario*	29.91	759 7	30.38	771.6	37	2.8	72	se.	5	2.2			10 s		se.	inap.	inap.	cloudy	W. H. McIlwraie.
St. Andrews, N. B	30.39	771.9	30.44	773.2	34	1.1	84	n.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.32	770.1	30.44	773.2	30.0	— 1.1	89	w.	1	0.4			fg.			0	0	dense fog	G. Hutchinson.
Saint John's, N. F	29.79?	756.7?	30.05?	763.3?	38	3.3	100	ne.			3		10 s			0.13	3.3	cloudy	J. Higgins.
St. Pierre, N. F			30.12	765.0	37.4	3.0		n.			7								The Commandant.
Saugeen, Ontario*	29.62	752.3	30.38	771.6	23	— 5.0	92	calm	0	0		0	0			0	0	clear	
Stratford, Ontario	29.02	737.1	30.36	771.1	34.4	1.3	85	n.	2.0	0.9			10 s			0	0	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	30.28	769.1	30.34	770.6	38	3.3	66	nw.	12	5.4			10 n		n.	0.36	9.1	cloudy	[illegible], C. E.
Toronto, Ontario*	29.97	761.2	30.37	771.4	38	3.3	76	n.	10	4.5			10 s		nw.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.29	744.0	30.40	772.1	37.1	2.8	76						10 s			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S.*	30.38	771.6	30.45	773.4	30	— 1.1	88	e.	2	0.9		5 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Cape Colony																			
Cape St. Francis Lt. House	29.91	759.7	29.94	760.5	66.0	18.9	79	sw.	12.0	5.4		8 ck	0			0	0	fine	I. Garfelt.
Cape Town	29.94	760.5			64.8	18.2	62	se.				0	9 kn			0	0		
Springbok Fontein	27.88	708.1			60	15.6	49									0	0		J. T. Eustace
Chilian.																			
Coquimbo	30.05	763.2	30.13	765.2	57.2	14.0	85	e.			2	2 c	0	ne.				clear	Samuel Redolez.
Iquique	29.99	761.8	30.02	762.5	61.7	16.5	71	sw.			3							foggy	Rafael Moreno.
Niebla	29.62	752.4	29.73	755.1	50.0	10.0	76	e.			1	0	4		w.	0	0	cloudy	Federico Kühling.
Punta Caldera	30.00	762.0	30.09	764.2	58.5	14.7	77	sw.			2	0	0					clear	Manuel Tobar.
Punta Corona	30.28	769.1	30.47	773.9				s.			2	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.85	758.2	29.94	760.5	56.7	13.7	89	n.			1	10	0					cloudy	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.41	645.4																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.28	769.2	30.31	769.8	59.9	15.5	69	nne.	15.0	6.7			10			0	0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	29.82	757.4	29.87	758.6	47.8	8.8	78	ssw.	16	7			10					hazy	Oversergent Fischer.
Fance	29.68	753.9	29.70	754.4	48.4	9.1	84	sw.			6		9						Overloerer Lauridsen.
Godthaab, Greenland	29.76	755.9	29.80	757.0	28.0	— 2.2	85	se.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.80	757.0	29.85	758.2	19.4	— 7.0		e.			2		8						
Stykkisholm, Iceland	28.91	734.4	28.96	735.5	33.8	1.0	73	ne.			2		8						A. O. Thorlacius.
Thorshavn	28.90	734.0	28.95	735.2	42.6	5.9	83	s.	20	9			7						Overloerer Bergh.
Vestervig	29.52	749.8	29.51	752.1	49.3	9.6	83	sse.			6		9						Loerer Oesterbol.
Egyptian.																			
Cairo	29.82	757.4			81.9	27.7		e.	6.9	3.1		2 ck				0	0		Albert Ismalun.
French.																			
Agen, Normal School	29.66	753.4	30.33	770.3	52.2	11.2	96	sse.			1		10	w.	w.	0	0	raining	M. Labroue, Director.
Alençon, Normal School	29.55	750.5	30.10	764.5	48.6	9.2	94	sw.			1				ne.	0	0		M. Nicot, Director.
Avignon, Normal School	30.06	763.4	30.13	765.4	55.4	13	55	nnw.			4		0			0.51	13.	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.7	30.12	765.0	50.5	10.3	69	ssw.			1		10		sw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.72	754.8	29.99	761.7	47.7	8.7	83	s.			2		10		sw.	0.055	1.4	raining	M. Frère Eugène Marlè.
Besançon, Normal School	29.31	744.5	30.23	767.9	48.2	9	72	sw.			2		10		ne.	0.08	2.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.95	760.8	30.22	767.5	54.9	12.7	84	sw.			1		10		wsw.	0.020	0.5	covered	M. Rayet, Director.
Bourges, Normal School	29.57	751.1	30.13	765.3	49.1	9.5	92	ssw.			1		kn		ssw.	0.138	3.5		M. Malet, Director.
Brest, Naval Observatory	29.80	756.9	30.04	763.1	56.1	13.4	93	w.			4		10		w.	0.098	2.5	raining	M. de Kermarée, Dir.
Caen, Normal School	29.82	757.4	29.89	759.3	54.0	12.2	93	w.			1				w.	0.142	3.6		M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.72	754.9	30.01	762.2	47.7	8.7	90	s.			2		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.51	749.5	30.04	762.9	44.4	6.9	78	ssw.			1		10			0	0	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.78	731.0	30.15	765.7	52.3	11.3	49	w.			2		8			0	0		M. Alluard, Director.
Cluny, Normal School	29.34	745.1	30.20	767.0	52.5	11.4	62	nw.			2				nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.24	742.8	30.12	765.0	46.8	8.2	75	sw.			1	5 ck			sw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.65	702.3	30.15	765.9	51.8	11	59	ne.			2		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	28.91	734.2	30.04	763.0	52.7	11.5	37	nw.			6		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.37	746.0	30.15	765.8	50.7	10.4	60	nw.			6		kn		n.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.57	725.7	30.20	767.1	45.0	7.2	94	sw.			1		10 n		nw.	0.091	2.3	raining	M. Delorme, Dir.
Lamballe, Normal School	29.7:	754.6	29.98	761.6	57.2	14	78	w.			4		5		w.	0.16	4.	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.70	754.3	30.27	768.8	58.5	14.7	58	wnw.			4		5			0.047	1.2	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.95	760.7	30.05	763.3	56.8	13.8	60	w.			2		10			0.028	0.7	raining	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.11	739.5	30.19	766.8	49.5	9.7	52	nw.			1	5 ck				0	0	cloudy	M. André, Director.
Mans, Normal School	29.73	755.2	30.04	763.1	48.2	9	95	sw.			4		10					raining	M. Richard, Director
Marseille, Observatory	29.79	756.7	30.06	763.6	54.7	12.6	44	nw.			5–6		1		nw.	0	0		M. Stephan, Director.
Montlouis	24.93	633.2	29.78	756.3	41.0	5.0	32	w.	9.4	4.2			8			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.05	763.3	30.16	766.1	58.6	14.8	57	nnw.			6		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.34	745.1	30.13	765.2	45.7	7.6	80	sw.			1	ck	n			0	0		M. Hasse, Director.
Nantes, Observatory	29.93	760.2	30.09	764.3	54.7	12.6	91	sw.			1		10		s.	0.039	1.0	raining	M. Lareque, Director.
Perpignan, Observatory	30.11	764.7	30.22	767.5	60.4	15.8	41	nw.	24.2	10.8			3	nw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.25	539.8			21.2	— 6.0		nw.			2		5		nw.	0.039	1.0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.08	738.7	30.16	766.0	53.2	11.8	78	n.			1		1	n.	s.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.18	639.5			30.6	— 0.8	100	w.			6		10			0.047	1.2	foggy	M. Allnard.
Rochefort, Naval Obs'y	30.13	765.3	30.16	766.1	55.8	13.2	86	s.			1		10		s.	0.098	2.5	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.82	757.5	30.04	762.9	57.9	14.4	89	s.			1		10			0	0	covered	M. Brotier, Director.
Rodez, Normal School	27.97	710.5	30.16	766.0	46.9	8.3	69	s.			1		10 n		s.	0.087	2.2	covered	M. Seger, Director.
Rouen, Normal School	29.84	757.9	29.89	759.1	50.4	10.2	74	n.			1		5	n.		0.067	1.7	cloudy	M. Moullot, Dir.
St Lô	29.84	757.8	29.98	761.4	53.8	12.1	96	w.			2		5		w.	0.04	1.	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.87	758.8	30.04	763.0	44.6	7.0	89	s.			1		10		sw.	0.264	6.7		M. Renou, Director.
Toulouse, Observatory	29.56	750.9	30.29	769.4	55.6	13.1	73	w.			2		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.91	759.8	30.05	763.3	51.8	11.0	86	ssw.			1		10		sw.	0.008	0.2	raining	M. de Tastes.
Versailles, Observatory	29.53	750.0	30.02	762.5	44.6	7.0	97	sw.			4		10			0.130	3.3	covered	Dr. A. Bergny, Director.
Sub-series.																			
St. Martin du Hinx	30.16	766.1	30.31	769.9	55.9	13.3	86	w.	5.8	2.6			10 k		w.	0.138	3.5	covered	M. Cartier, Director.
German.																			
Ansbach	28.63	727.2	30.11	764.7	46.8	8.2	67	sw.			2		5	sw.		0	0		Prof. Jnedt.
Bamberg	29.24	742.7	30.09	764.2	48.0	8.9	64	sw.			1		5 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.87	758.8	30.02	762.5	52.9	11.6	67	s.			1		3			0	0		Dr. Lensch.
Breslau	29.55	750.5	30.08	764.0	46.2	7.9	79	ssw.			1		10			0.197	5.0	foggy	Royal University Obs'y.
Carlsruhe	29.06	753.3	30.12	765.1	50.0	10.0	62	sw.			4		3	sw.		0	0		Albert Senz.
Cassel	29.29	743.9	30.00	762.0	44.8	7.1	77	sw.			4		4	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	754.9	30.10	764.4	41.2	5.1	88	sw.			1		10			0	0		Physical Society.
Friedrichshafen	28.69	728.7	30.14	765.5	45.3	7.4	86	sw.			1		9	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.82	757.4	29.91	759.7	49.6	9.8	73	sw.			6		8	w.		0	0		E. Freiter.
Kiel	29.84	757.9	29.85	758.3	48.0	8.9	82	s.			4		8			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.63	752.5	30.05	763.3	50.5	10.3	70	ssw.			2		3	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.80	757.0	30.00	761.9	53.6	12.0	49	ssw.			2		2	ssw.		0	0		Weather Observatory.
Memel	30.01	762.2	30.06	763.4	48.0	8.9	87	wsw.			3		10 k						Issermann.
Munich	28.27	718.0	30.14	765.5	42.3	5.7	85	calm			0		10	w.		0.299	7.6		Central Station.
Neufahrwasser	30.03	762.7	30.04	763.1	50.2	10.1	80	sw.			1		8			0	0		A. Lothes.
Neustadt, Palatinate	29.53	750.0	30.06	763.4	49.6	9.8	65	calm			0		4	w.		0	0		Dicknether.
Stuttgart	29.09	738.8	29.99	761.7	50.9	10.5	67	w.			2		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.87	758.8	29.90	759.5	48.7	9.3	82	ssw.			3		5 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.69	754.1	30.06	763.6	73.4	23.0		s.			1.5		1			0.004	0.1	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.92	760.0	29.98	761.4	84.4	29.1	56	w.	17.0	7.6			3	wsw.		0	0	d. clouds	
Deesa	29.45	748.0	29.92	759.9	90.3	32.4	29	ssw.	3.0	1.3			0			0	0	blue sky	
Bombay	29.88	758.9	29.92	759.9	83.3	28.5	75	w.	7.0	3.1			1	w.		0	0	d. clouds	
Poona, Yarrowda	28.06	712.8	29.92	760.0	78.0	25.6	72	ssw.	9.0	4.0			7			0	0	d. clouds	
Trichinopoly	29.63	752.6	29.91	759.7	87.5	30.8	54	wnw.	0.2	0.1			4			0	0	d. clouds	
Bellary	28.39	721.2	29.85	759.2	84.0	28.9	58	e.	4.0	1.8			7			0	0	d. clouds	
Belgaum	27.35	694.6	29.92	759.8	70.7	21.5	89	sw.	7.0	3.1			9	s.	w.	0.23	5.8	d. clouds	
Lahore	29.16	740.6	29.91	759.7	76.5	24.7	59	calm	0	0			6			0	0	d. clouds	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
INDIAN.—Continued.																			
Roorkee	29.03	737.4	29.94	760.5	75.8	24.3	53	calm	0	0	......	......	6	n.	......	0	0	d. clouds	
Agra	29.37	746.1	29.94	760.4	84.2	29.0	22	w.	2.0	0.9	......	......	3	......	w.	0	0	d. clouds	
Nagpur	28.90	734.2	29.96	761.0	76.5	24.7	59	calm	0	0	......	......	0	......	......	0	0	blue sky	
Jubbulpore	28.61	726.6	29.98	761.4	76.8	24.9	36	calm	0	0	......	......	0	......	......	0	0	blue sky	
Lucknow	29.56	750.9	29.94	760.5	79.2	26.2	38	calm	0	0	......	......	0	......	......	0	0	blue sky	
Allahabad	29.63	752.5	29.94	760.6	73.8	23.2	63	calm	0	0	......	......	2	......	......	0	0	d. clouds	
Patna	29.75	755.7	29.94	760.5	75.5	24.2	58	nw.	2.3	1.0	......	......	0	......	......	0	0	blue sky	
Hazaribagh	27.92	709.2	29.95	760.8	74.6	23.7	46	n.	3.1	1.4	......	......	0	......	......	0	0	blue sky	
Cuttack	29.83	757.8	29.92	759.8	83.2	28.4	65	ne.	4.0	1.8	......	......	0	......	......	0	0	blue sky	
Calcutta, Alipore	29.89	759.2	29.91	759.8	78.5	25.8	58	nnw.	4.0	1.8	......	......	0	......	......	0	0	blue sky	
Dhubri	29.80	756.8	29.91	759.8	77.0	25.0	78	nne	1.4	0.6	......	......	0	......	......	0	0	blue sky	
Chittagong	29.81	757.1	29.90	759.4	78.7	25.9	79	calm	1.4	0.6	......	......	0	......	......	0	0	blue sky	
Sibsagar	29.59	751.6	29.93	760.3	76.4	24.7	80	ne.	2.0	0.9	......	......	2	......	e.	0	0	blue sky	
Jeypore	28.50	723.8	29.94	760.4	82.9	28.3	29	nnw.	5.0	2.2	......	......	3	......	n.	0	0	d. clouds	
Zanzibar	29.90	759.4	......	......	83.8	28.8	69	sw.	3.1	1.4	......	......	2	......	ene.	0	0	d. clouds	
ITALIAN.																			
Udine	29.50	749.2	29.91	759.6	57.6	14.2	67	e.	6.3	2.8	......	......	10	......	......	1.071	27.2	......	Prof. Giovanni Clodig.
Milan	29.39	746.4	29.90	759.5	60.3	15.7	52	ne.	1.3	0.6	......	......	6	nne.	......	0	0	......	Prof. G. V. Schiapparelli
Padua	29.76	755.9	29.87	758.7	63.1	17.3	54	sw.	1.3	0.6	......	......	3	sw.	......	0.039	1.0	......	Prof. Dott. Lorenzoni.
Moncalieri	29.00	73[illegible].7	29.91	759.8	59.5	15.3	46	sw.	0.7	0.3	......	......	0	......	......	0	0	......	Prof. F. F. Denza.
Genoa	29.70	754.4	29.89	759.3	61.5	16.4	60	se.	4.9	2.2	......	......	6	e.	......	0	0	......	Prof. G. M. Garibaldi.
Mondovi	28.02	711.6	29.94	760.4	53.1	11.7	56	nw.	......	......	6	......	1	......	......	0.087	2.2	......	Prof. D. C. Bruno.
Pesaro	29.86	758.4	29.91	759.6	57.9	14.4	82	wsw.	4.9	2.2	......	......	10	ssw.	......	0.063	1.6	......	Prof. Luigi Guidi.
Florence	29.66	753.3	29.91	759.8	62.1	16.7	53	w.	......	......	4	......	3	......	......	0.591	15.0	......	Prof. Costantino Pittei
Leghorn	29.77	756.2	29.86	758.4	61.2	16.2	47	w.	19.9	8.9	......	......	3	sw.	......	0	0	......	Prof. P. Monte.
Rome	29.80	756.9	29.97	761.3	64.0	17.8	54	sw.	12.5	5.6	......	......	10	s.	......	0.016	0.4	......	Prof. P. Tacchini.
Lecce	29.70	754.4	29.95	760.8	68.4	20.2	80	ssw.	18.6	8.3	......	......	8	s.	......	0	0	......	Prof. C. de Giorgi.
Cosenza	29.13	739.8	30.02	762.4	69.8	21.0	65	ssw.	2.5	1.1	......	......	9	sw.	......	1.079	27.4	......	Prof. D. Conti.
Cagliari	29.86	758.5	30.05	763.3	63.5	17.5	50	nw.	......	......	4	......	8	......	......	0	0	......	Prof. A. Pacinotti.
Palermo	29.79	756.6	30.04	762.9	73.6	23.1	52	w.	11.9	5.3	......	......	9	w.	......	0	0	......	Prof. G. Cacciatore.
Syracuse	29.97	761.1	30.01	762.2	75.0	23.9	70	wsw.	3.8	1.7	......	......	7	wsw.	......	0	0	......	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	748.0	29.97	761.2	63.1	17.3	63	wsw.	8.7	3.9	......	......	10	sw.	......	1.209	30.7	......	Prof. F. Brioschi.
JAPANESE.																			
Akita	29.88	759.0	29.91	759.9	54.0	12.2	96	nw.	......	......	6	......	10k;ks	......	w.	0.587	14.9	cloudy	H. Hattori.
Awomori	29.84	757.9	29.88	758.9	51.7	10.9	78	w.	5.8	2.6	......	......	10 ks	......	......	0.211	5.4	gloomy	K. Ogawa.
Hamamatsu	29.83	757.7	29.93	760.2	66.0	18.0	89	w.	......	......	2	1 cs	2 s	w.	w.	0	0	fair	Sekigawa & Yamazaki.
Kagoshima	30.00	762.0	30.01	762.3	71.6	22.0	89	calm	......	......	0	......	10 s	......	......	0	0	overcast	G. Miyanohaza.
Kanazawa	29.87	758.7	29.98	761.4	59.6	15.3	96	n.	8.1	3.6	......	......	10 n	......	......	0.811	20.6	raining	S. Endo.
Kioto	29.78	756.5	29.96	760.9	64.6	18.1	92	wnw.	0.9	0.4	......	......	10 n	......	......	0.260	6.6	light rain	M. Tojima.
Kochi	29.92	760.1	29.95	760.6	71.4	21.9	87	e	1.1	0.4	......	......	10 s	......	......	0	0	overcast	K. Kusunose.
Miasaka	29.95	760.7	29.98	761.4	73.9	23.3	75	wsw.	......	......	2	0	8ck;s	......	w.	0	0	cloudy	K. Masusaki
Miyako	29.73	755.2	29.84	758.0	57.5	14.2	89	wsw.	1.0	0.4	......	......	10 s	......	......	0.004	0.1	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.83	757.7	30.03	762.7	65.7	18.7	87	n.	10.8	4.8	......	0	2 s	......	n.	0.250	6.3	clear	S. Takehayashi
Niigata	29.90	759.4	29.93	760.2	60.7	15.9	86	n.	5.2	2.3	......	......	10 n	......	n.	0.535	13.6	light rain	Satoo & Tomikawa.
Nobiru	29.80	757.0	29.82	757.4	60.6	15.9	83	nnw.	19.0	8.5	......	......	10 s	......	w.	0	0	covered	Yoslino & Midzushina.
Numazu	29.84	757.9	29.87	758.8	69.5	20.8	77	sw.	......	......	4	0	9 s	......	w.	0.031	0.8	cloudy	R. Kaneda.
Osaka	29.94	760.4	29.95	760.8	65.8	18.8	92	n.	9.6	4.3	......	......	10 s	......	......	0.255	6.5	cloudy	H. Omura.
Sakai	29.99	761.8	30.00	762.0	60.8	16.0	95	nw.	......	......	2	......	10 n	......	w.	1.358	34.5	raining	Yamawchi & Sakamoto.
Shimonoseki	29.88	759.0	30.03	762.7	61.7	16.5	96	calm	......	......	0	......	10 ks	......	......	0.370	9.4	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.79	756.6	29.86	758.4	63.1	17.3	89	wnw.	6.8	3.0	......	0	0	......	......	0.030	0.8	clear	The Staff.
Wakayama	29.89	759.1	29.94	760.4	67.1	19.5	90	n.	2.4	1.1	......	......	10 n	......	......	0.283	7.2	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	78.0	25.6	60	sw.	11.0	4.9	......	0	4 k	......	ene.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.28	616.7	30.03	762.7	53.4	11.9	82	n.	0.9	0.4	......	0	0	......	......	0	0	clear	Prof. M. Leal.
Mazatlan	29.58	751.2	29.83	757.7	77.5	25.3	88	ne.	0.9	0.4	......	0	1 s	......	......	0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.83	757.7	29.83	757.7	46.8	8.2	......	s.	......	......	5	......	......	......	......	0	0	......	
Groningen	29.76	755.8	29.81	757.2	44.2	6.8	......	sw.	......	......	4	......	......	......	......	0	0	......	
Helder	29.72	755.0	29.72	755.0	46.8	8.2	......	s.	......	......	5	......	......	......	......	0.205	5.2	......	
Hellevoetsluis	29.83	757.7	29.83	757.7	46.6	8.1	86	sw.	......	......	4	......	......	......	......	0.063	1.6	......	H. van der Brink
Utrecht	29.82	757.3	29.86	758.5	46.8	8.2	82	ssw.	......	......	4	......	10	......	......	0.031	0.8	dull	
Sub-series.																			
Batavia, Java	29.86	758.4	......	......	81.1	27.3	76	n.	0	0	......	......	6	......	......	0	0	......	Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.22	742.2	29.28	743.8	45.3	7.4	80	s.	31	14	......	......	10	......	......	0.205	5.2	raining	
Brono	29.62	752.4	29.66	753.4	44.6	7.0	57	sse.	......	......	6	......	1	......	......	0	0	......	
Christiania	29.47	748.5	29.61	752.2	45.1	7.3	85	ssw.	7	3	......	......	10	......	......	0.067	1.7	light rain	
Gjæsvær	29.74	755.5	29.77	756.1	34.0	1.1	......	e.	......	......	2	......	8	......	......	......	......	......	
Lodingen	29.58	751.3	29.63	752.5	39.4	4.1	58	ene.	......	......	2	......	0	......	......	0	0	......	
PORTUGUESE.																			
Angra, Azores	......	......	......	......	65.8	18.8	73	se	6.9	3.1	......	......	3	......	......	0	0	......	Dr. J. A. Sampaio.
Campo Major	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	Dr. A. M. R. dos Santo
Funchal, Madeira	30.19	766.8	30.28	769.1	67.5	19.7	53	ene.	6.3	2.8	......	......	5	......	ne.	0	0	......	Capt. D. A. de Cunha.
Lisbon, Observatory	30.02	762.6	30.36	771.2	61.7	16.5	44	ene.	6.3	2.8	......	......	1	......	nne.	0	0	......	The Staff
Ponta Delgada, Azores	30.40	772.2	30.47	774.0	72.0	22.2	48	calm	0	0	......	......	6	......	......	0	0	......	
Saint Paul de Loando	29.71	754.5	29.91	759.7	72.7	22.6	99	w.	1.3	0.6	......	......	10	......	......	0	0	......	
San Salvador, Congo	28.06	712.8	29.91	759.6	74.8	23.8	72	wsw.	......	......	3	......	9	......	......	0	0	......	
Serra da Estrella	25.54	648.6	30.34	770.5	46.2	7.9	55	calm	0	0	......	......	3	......	......	0	0	......	
RUSSIAN.																			
Akmolinski	29.11	739.4	30.22	767.6	40.1	4.5	36	ssw.	7	3	......	7 c	0	......	......	0	0	......	Major K. Lasarew.
Archangel	29.86	758.4	29.88	758.9	36.7	2.0	93	w.	13	0	......	......	10	......	......	0	0	......	Capt. Sseliwerstow
Ashurada	30.45	773.4	30.35	771.0	64.9	18.3	68	n.	13	6	......	0	1 k	......	......	0	0	......	
Astrakhan	30.43	772.9	30.35	771.0	55.0	12.8	70	se.	9	4	......	0	2 ks	......	......	0	0	......	Capt. Wisganow.
Baku	30.40	772.1	30.35	770.9	61.0	16.1	76	s.	22	10	......	......	9 k	......	......	0	0	......	Meteorological Obs'y
Barnaul	29.91	759.7	30.45	773.3	25.3	−3.7	98	ne.	4	2	......	......	9	......	......	0	0	......	
Bieloserk	29.55	750.5	30.03	762.7	36.9	2.7	93	calm	0	0	......	......	10 ks	......	......	0.047	1.2	......	Observatory.
Dorpat	29.78	756.5	30.03	762.8	44.4	6.9	79	s.	7	3	......	0	8 k	......	......	0.016	0.4	......	Meteorological Obs'y.
Ekaterinburg	29.15	740.3	30.14	765.5	38.3	3.5	72	sw.	4	2	......	......	10	......	......	0.020	0.5	......	
Elissawetgrad	29.63	752.6	30.08	763.9	61.5	16.4	67	s.	7	3	......	0	0	......	......	0	0	......	
Irkutsk	28.95	735.2	30.68	779.2	32.5	0.3	78	calm	......	......	0	......	9	......	......	0	0	......	
Kasalinsk	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	......	Observatory.
Kasan	29.80	757.0	30.08	764.0	46.4	8.0	75	sw.	9	4	......	......	10 n	......	......	0	0	h'vy clouds	
Kem	29.87	758.7	29.92	760.0	33.4	0.8	89	wsw.	9	4	......	......	10 k	......	......	0	0	......	Lagorio & Sastyrew.
Kertch	29.92	760.0	29.95	760.6	65.1	18.4	70	calm	0	0	......	4 c	0	......	......	0	0	......	Observatory.
Kieff	29.32	744.8	29.95	760.8	55.8	13.2	82	sw.	7	3	......	0	6ks;n	......	......	0	0	light rain	
Koslov	29.55	750.5	30.06	763.4	48.4	9.1	98	ssw.	4	2	......	......	10 n	......	......	......	......	......	E. Quaas.
Libau	29.98	761.4	30.00	762.0	49.3	9.6	76	wsw.	7	3	......	......	1	......	......	0	0	light clouds	Meteorological Obs'y.
Lugan	29.89	759.3	30.10	764.4	65.1	18.4	43	se.	13	6	......	......	4	......	......	0	0	......	Meteorological Obs'y
Moscow	29.56	750.9	30.05	763.3	43.2	6.2	91	w.	2.2	1.0	......	......	10 n	......	......	0.047	1.2	......	Capt. Kurdakow.
Nikolaiev	30.00	761.9	30.07	763.7	64.4	18.0	71	s.	13	6	......	0	0	......	......	0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mts. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
RUSSIAN.—Continued.																			
Nikolaiewsk-on-the-Amoor	29.92	760.0	30.01	762.2	20.3	— 6.5	90	nnw.	4	2			10 n					light snow	Iwanow.
Pekin, China	30.35	771.0	30.50	774.6	43.3	6.3	51	calm	0	0		2 cs	0			0	0		Physical Observatory.
Petro-Alexandrovsk	30.12	765 0	30.48	774.2	51.8	11 0	50	calm	0	0		0	0			0	0		
Petrozavodsk	29.79	756.7	30.00	761.9	36.3	2.4	85	nw.	9	4			10			0.004	0.1	light clouds	Dr. Bergmann.
Pinsk	29.52	749.8	30.03	762.7	42.8	6.0	91	ne.	9	4			10 n			0.260	6.6		
Poti	30.07	763.7	30.10	764.5	75.0	23.9	79	e.	4	2		0	0			0	0		
St. Petersburg	30.00	761.9	30.02	762.5	44.1	6.7	73	w.	7	3		cs	9 ks;n			0.091	2.3		Central Physical Obs'y.
Samarkand	27.96	710 1	30.54	775.7	39.0	3.9	97	calm	0	0			10 n			0.087	2.2		
Semipalatinsk	29.75	755.6	30.44	773.1	36.1	2.3	50	sse.	4	2			0			0	0		Major Lasarew
Sevastopol	29.87	758.7	30.08	764.0	66.4	19.1	61	ssw.	16	7		0	1 s			0	0		
Starol Bykhov	29.47	748.5	30.04	762.9	42.6	5.9	87	ne.	11	5			10			0.520	13.2		
Tashkend Laboratory	28.72	729 4	30.45	773.4	43.9	6.6	90	w.	13	6			10 n			0.532	13.5	h'vy clouds	Torch, A. M
Tiflis	28.90	734.1	30.32	770.0	62.2	16.8	48	ssw.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.67	702.8	30.27	768.8	37.6	3.1	67	calm	0	0		8 ck	0			0	0		
Viatka	29.26	743.1	29.90	759.4	40.6	4.8	94	w.	7	3			9			0.043	1.1		
Warsaw	29.63	752.7	30.07	763.7	45.3	7.4	88	calm	0	0			10 kn			0.016	0.4		Astronomical Obs'y.
Yeniseisk	30.39	771.9	30.70	779.8	25.7	— 3.5	89	calm	0	0			2			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.07	763.8	30.17	766 4	64.0	17.8	49	wnw.	2.7	1.2		1 c	0			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.27	768.8	30.33	770.3	62.6	17.0	58	nw.	1.3	0.6		3	3	n.		0.398	10.1	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27 33	694.1	30.35	771.0	50.0	10.0	71	w.	3.8	1.7		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	28.08	713.2	30.33	770.3	58.8	14.9	51	se.	5.6	2.5		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.13	765.2	30.27	768.9	71.2	21.8	45	sw.	3.4	1.5		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.15?	740.3?	29.91?	759.6?	4[illegible].3	8.5	83	se.	3.6	1.6		4 s		n.		0	0		Prof. L. G. Frades.
Santiago, Met. Obs'y	29.41	747.0	30.31	769.9	58.3	14.7	74	sw	1.8	0.8			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.82	757.4	29.88	759.0	74.5	23.6	90	se.	2.5	1.2		1 cs	0	sw.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	758.9	29.94	760.4	79.6	26.4	84	nne.	2.2	1.0		0	1 ks			0.031	0.8	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.18	766.5	30.28	769.0	68.2	20.1	44	nw.	5.7	2.5		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.84	758.0	29.93	760.3	81.0	27.2	86	calm	0	0		0	5 kn		se.	0.524	13.3	cloudy	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda,	29.84	757.8	29.87	758.8	38.8	3.8	93	s.			2		5			0	0		
Umea	29.76	755.9	29.81	757.2	40.3	4.6	84	sw.			4		7			0	0		
Hernosand	29.71	754.7	29.76	756.0	41.0	5.0	84	calm			0		9			0	0		
Stockholm	29.71	754.5	29.88	759.0	44.1	6.7	78	sw.			2		2			0.008	0.2		
Wisby	29.85	758.1	29.91	759.6	46.4	8.0	81	w.			4		3			0	0		
Sub-series.																			
Upsala	29.73	755.2	29.82	757.4	44.2	6.8	87	ssw.	8.1	3.6			5	w.	sw.	0.004	0.1		H.H.Hildebrandesson
SWISS.																			
Geneva	28.71	729.3	30.15	765.8	50.0	10.0	61	n.			2		7			0.071	1.8	cloudy	The Observatory.
TURKISH.																			
Constantinople			30.08	764.0	67.5	19.7	70	se.	4	2.0			2		sw.	0	0		The Observatory.
Valona			30.13?	765.2?	73.9	23.3		sw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.03	762.8	78.6	25.9	47	n.			1		0			0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.35	770.9	30.43	772.9	45	7.2	71	s.	3	1.3			10 s		w.	0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.72	754.9	30.39	771.9	31.8	— 0.1	78	nw.	0	2.7		0	4 ks		w.	0.02	0.5	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25 00	635.0	29.90	759 4	33.5	0.8	74	e.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.44	697.0	30.36	771.1	26	— 3.3	76	s.	1	0.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.11	764.8	53.0	11.7	93	e.	11	4.9			10 s		e.	0.39	9.9	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.26	768.6	30.27	768.8	52.1	11.2	80	ne.	28	12.5			10 s		ne.	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	57	13.9	90	ne.	8	3.6			10 s		ne.	1.49	37.8	cloudy	Louis Duane.
Baltimore, Maryland	30.29	769.4	30.34	770.6	48	8.9	86	ne.	7	3.1			10 n		ne.	0.10	2.5	light rain	Geo. W. Feiger.
Barnegat City, New Jersey	30.29	769.4	30.31	769.9	51.1	10.6	76	e.	32	14.3			10 s		e.	0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.79	731.3	30.41	772 4	33.5	0.8	88	n.	4	1.8			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.51	698 7	30.42	772.7	26	— 3.3	40	calm	0	0			fg.			0	0	dense fog	Thomas Morgan.
Bismarck, Dakota	28.58	725.9	30.46	773.7	35	1.7	89	e.	3	1.3			10 s			0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.38	771 6	30.41	772 4	45.5	7.5	72	ne.	20	8.9		0	8 ks		se.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.43	696.7	30.29	769.4	27	— 2.8	88	nw.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.30	769.6	30.46	773.7	33.5	0.8	83	nw.	7	3.1		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	75.0	23.9	90	s.	8	3.6		3 cs	0			0	0	clear	John McGlone.
Buffalo, New York	29.56	750.8	30.32	770.1	41.5	5.3	88	n.	6	2.7			10 s		ne.	0.01	0.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.33	719.6	30.43	772.9	34	1.1	100	calm	0	0			10 s			0.03	0.8	cloudy	A. Schneider.
Cairo, Illinois	29.85	758.2	30.25	768.3	42.8	6.0	85	ne.	11	4.9		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.68	753.9	29.88	758 9	51.0	10.6	85	e.	11	4.9		5 c	0	s.		0	0	fair	O. D. Stewart.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	58.0	14.4	100	ne.	28	12.5			10 n			1.87	47.5	heavy rain	A. K. Alderson.
Cape May, New Jersey	30.21	767.3	30.24	768.1	53.0	11.7	93	ne.	21	9.4			10 n			0.37	9.4	light rain	Wm. Bolton.
Cape Mendocino, California	29.15	740.4	29.84	757.9	51	10.6	80	se.	9	4.0		6 k	0	se.		0	0	fair	J. J. McLean.
Cedar Keys, Florida	29.92	760.0	29.94	760 5	69.0	20.6	97	n.	11	4.9			10 s		n.	0.07	1.8	threatening	G. W. Davis.
Charleston, S. Carolina	29.95	760.7	30.01	762.2	62.0	16.7	100	ne.	12	5.4			10 s		ne.	0.02	0.5	threatening	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.14	765 5	50.5	10.3	93	ne.	11	4.9			10 n		ne.	0.86	21.8	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.12	765.0	55.0	12.8	93	ne.	5	2.2			10 s		n.	0.19	4.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24 03	610.4	30.05	763 3	27.4	— 2.6	86	ne.	6	2.7			10 n			0.39	9.9	light snow	E. McGovern.
Chicago, Illinois	29.64	752 8	30.35	770.9	44.0	6.7	56	ne.	8	3.6			10 s		ne.	0.02	0.5	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.13	765.3	30.15	765.8	54	12.2	100	ne.	24	10.7			10 n		ne.	1.27	32.3	heavy rain	C. F. Dickens.
Cincinnati, Ohio	29.60	751.8	30.26	768 6	44.2	6.8	72	ne.	5	2.2			10 s		ne.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.54	750.3	30.28	769.1	46.8	8.2	83	ne.	8	3.6			10 s		ne.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.38	746.2	30.24	768.1	43	6.1	83	n.	3	1.3			10 s			0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.02	711.7	29.97	761.2	62.5	16.9	100	se.	4	1.8			10 s			0.20	5.1	cloudy	C. E. King.
Custer, Fort, M. T	27.19	690.6	30.43	772.9	26	— 3.3	88	n.	6	2.7			10 s			0	0	cloudy	T. Gibson.
Davenport, Iowa	29.68	753.9	30.34	770.6	39.5	4.2	82	ne.	5	2.2		4 cs	hz.	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	29.98	761.5	55.0	12.8	84	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.43	722.1	30.22	767.6	30.8	— 0.7	71	ne.	8	3.6		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.63	651.0	30.31	769.9	28.5	— 1.9	100	ne.	7	3.1			10 n			0.10	2.5	light snow	F. Des Willson.
Delaware Breakwater, Del	30.22	767 6	30.24	768.1	54.8	12.7	100	ne.	34	15.2			10 n		ne.	0.07	1.8	light rain	F. W. Mixer.
Denver, Colorado	24.72	627.9	29.98	761.5	36.0	2.2	98	n.	16	7.2			10 n			0 03	0.8	light rain	F. M. Neal.
Des Moines, Iowa	29.45	748 0	30.37	771.4	35	1.7	79	e.	3	1.3		0	sk.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.63	752.6	30.34	770.6	40.0	4.4	73	n.	7	3.1			10 s			0.02	0.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.33	694 2	29.96	761.0	47	8.3	93	e.	30	13.4			10 s			0.09	2.3	cloudy	J. H. Bryce.
Dubuque, Iowa	29.67	753.6	30.39	771.9	41.2	5.1	76	ne.	2	0.9			10 s		ne.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.70	754.4	30.46	773.7	40	4.4	82	nw.	6	2.7			10 s			0.01	0.3	cloudy	N. B. Conger.
Eastport, Maine	30.39	771.9	30.46	773.7	34.5	1.4	79	nw	3	1.3		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	29.95	760.7	55	12.8	93	se.	17	7.6			10 s		se.	0	0	cloudy	J. C. Rickli.
El Paso, Texas	26.24	666.5	29.98	761.5	49.2	9.6	40	nw.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.57	751.1	30.30	769.6	46	7.8	83	ne.	4	1.8			10 s		ne.	0	0	cloudy	O. A. Shaw.
Escanaba, Michigan	29.76	755.9	30.44	773.2	36.0	2.2	79	n.	8	3.6			10 s			0	0	cloudy	George Heatncote.
Galveston, Texas	29.95	760.7	29.99	761.7	68.1	20.1	90	e.	12	5.4			10 ks		e.	0.07	1.8	threatening	E. O'C. MacInerney
Grand Haven, Michigan	29.70	754.4	30.37	771.4	36.5	2.5	80	ne.	6	2.7			10 s			0	0	cloudy	Wm. H. Fallon.

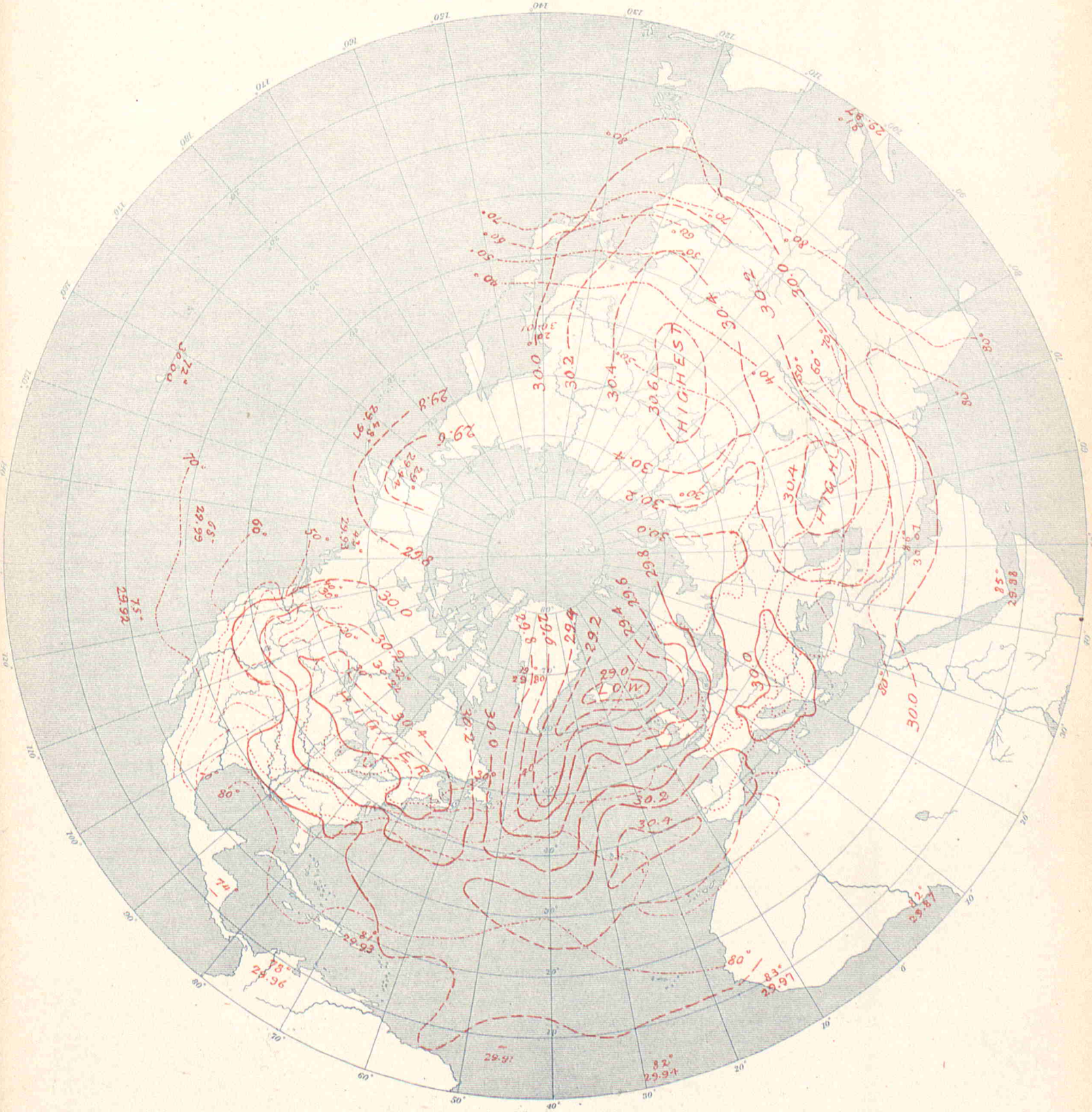
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.21	640.3	29.91	759.7	48.3	9.1	49	nw.	3	1.3	.....	8 cs	0	w.	.....	0	0	cloudy	Chas. A. Read.
Hatteras, North Carolina	29.98	761.5	29.99	761.7	64.0	17.8	93	ne.	4	1.8	.....	.....	10 k	.....	e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.04	661.4	30.34	770.6	23	— 5.0	73	sw.	3	1.3	.....	0	0	.....	.....	blank	blank	clear	F. H. Jones.
Huron, Dakota	28.96	735.6	30.39	771.9	37.3	2.9	79	n.	7	3.1	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.47	748.5	30.27	768.8	37.4	3.0	72	ne.	5	2.2	.....	0	1 s	.....	ne.	0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	29.90	759.4	29.93	760.2	71.1	21.7	94	e.	19	8.5	.....	6 cs	4 s;ks	nw.	e; ne.	0.76	19.3	threatening.	I. A. Reed.
Jacksonville Florida	29.92	760.0	29.96	761.0	64.0	17.8	100	n.	8	3.6	.....	.....	10 n	.....	.....	0.87	22.1	light rain	J. W. Smith.
Keokuk, Iowa	29.66	753.4	30.33	770.4	36.0	2.2	85	ne.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	F. Z. Gosewisch.
Key West, Florida	29.85	758.2	29.87	758.7	76	24.4	97	calm	0	0	.....	2 cs	5 k;ks	.....	w.	0.42	10.7	fair	A. W. Browne.
Kittyhawk, North Carolina	29.96	761 0	29.98	761.5	63.8	17.7	93	ne.	26	11.6	.....	.....	10s;fg	.....	ne.	0.35	8.9	cloudy	Wesley Blake.
Knoxville, Tennessee	29.10	739.1	30.14	765.5	54.5	12.5	98	ne.	3	1.3	.....	.....	10 s	.....	.....	0.44	11.2	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.60	751.8	30.39	771.9	37	2.8	82	n.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.33	745 0	30.23	767.8	41	5.0	73	e.	7	3.1	.....	10 cs	0	w.	.....	0	0	cloudy	T. S. Outram.
Lewiston, Idaho	29.46	748.3	30.30	769.6	31.0	— 0.6	78	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.82	757.4	30.14	765 5	48.0	8.9	77	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.98	761.5	67	19.4	63	ne	16	7.2	.....	.....	10 n	.....	n.	inap.	inap.	light rain	T. S. Collins.
Louisville, Kentucky	29.65	753.1	30.22	767.6	44.0	6.7	80	n.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	L. M Dey.
Lynchburg, Virginia	29.51	749.5	30.20	767.1	49.0	9.4	89	ne.	5	2.2	.....	.....	10 n	.....	ne.	0.72	18.3	light rain	Jno. Healy.
Mackinaw City, Michigan	29.75	755.6	30.42	772.7	38.2	3.4	62	n.	6	2.7	.....	0	9 s	.....	n.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.98	761.5	30.00	762.0	62.0	16.7	100	n.	17	7.6	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	William Daly.
Maginnis, Fort, Montana	25.80	655.3	30.34	770.6	25	— 3.9	64	e.	3	1.3	.....	0	0	.....	.....	0.16	4.1	clear	F. Burke.
Marquette, Michigan	29.72	754.9	30.46	773.7	37.0	2.8	82	nw.	4	1.8	.....	.....	10 s	.....	nw.	0.03	0.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.79	756.7	30.13	765.3	48	8.9	86	ne.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.63	752.6	30.39	771.9	39.7	4.3	85	n.	7	3.1	.....	.....	10 s	.....	ne.	0.17	4.3	cloudy	W. Lins.
Mobile, Alabama	29.98	761.5	30.02	762.5	63	17.2	93	ne	6	2.7	.....	.....	10 s	.....	ne.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.83	757.7	30.06	763.5	59	15.0	90	ne.	8	3.6	.....	.....	10 s	.....	ne	1.69	42.9	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.40	746.7	30.42	772.7	33	0.6	100	e.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Mt. Washington, N. H	24.00	609.6	30.34	770.6	25.3	— 3.7	85	nw.	20	8.9	.....	0	3 s	.....	w.	0	0	clear	S. W. Beall.
Nashville, Tennessee	29.57	751.1	30.15	765.8	48.0	8.9	96	ne.	7	3.1	.....	.....	10 n	.....	ne.	inap.	inap.	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.31	769.9	30.43	772.9	38	3.3	73	ne.	12	5 4	.....	7 k	0	w.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	30.41	772.4	30.46	773.7	41.5	5.3	69	n.	5	2.2	.....	.....	8 ks	.....	n.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	65.0	18.3	87	ne.	8	3.6	.....	0	9 s	.....	ne.	0	0	cloudy	M. Herman.
New York, New York	30.23	767.8	30.41	772.4	44.0	6.7	68	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. J. Peurod.
Norfolk, Virginia	30.05	763.3	30.08	764.0	57.1	13.9	100	ne.	22	9.8	.....	.....	10 n	.....	.....	1.06	26.9	light rain	Wm. Davis.
North Platte, Nebraska	27.14	689.3	30.10	764.5	33.6	0.9	90	ne.	16	7.2	.....	.....	10 n	.....	.....	0.65	16.5	light snow	E. F. Brady.
Olympia, Washington T'y	29.96	761.0	30.00	762.0	34.0	1.1	88	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. Dascomb
Omaha, Nebraska	29.11	739.4	30.31	769.9	40.0	4.4	82	e.	8	3.6	.....	.....	10 s	.....	e	0	0	cloudy	A. Pollak
Oswego, New York	30.01	762.2	30.34	770.6	47.0	8.3	77	se.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	J. G. Linsley
Palestine, Texas	29.50	749.3	30.06	763.5	54.0	12.2	93	e.	8	3.6	.....	.....	10 n	.....	w.	0.01	0.3	light rain	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	64.6	18.1	92	n	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.25	768.3	30.35	770.9	47	8.3	86	ne.	16	7.2	.....	.....	10 n	.....	ne.	inap.	inap.	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.62	447.5	29.90	759.4	0	—17.8	100	W.	11	4.9	.....	0	0	.....	.....	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.46	748.3	30.28	769.1	50.5	10.3	78	e	3	1.3	.....	.....	10 s	.....	e.	0	0	cloudy	G. C Schaeffer.
Port Huron, Michigan	29.61	752.1	30.30	769.6	38.0	3.3	72	ne.	7	3.1	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	M. H. Perry
Portland, Maine	30.42	772.7	30.47	773.9	33	0.6	68	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.90	759.4	29.97	761.2	51.0	10.6	47	e.	6	2.7	.....	0 c	0	ne.	.....	0	0	fair	M. L. Hearne.
Portsmouth, N. C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.78	629.4	29.94	760.5	40.0	4.4	64	sw.	2	0.9	.....	.....	hz.	.....	.....	0	0	dense haze	N. D. Lane.
Provincetown, Mass	30.42	772.7	30.45	773.4	43.8	6.6	68	e.	4	1.8	.....	0	2 k	.....	e.	0	0	clear	C. N. Kitchel.
Red Bluff, California	29.62	752.3	29.98	761 5	49	9.4	71	n.	4	1.8	.....	.....	10 ks	.....	s.	inap.	inap.	cloudy	J. R. Williams.
Rio Grande City, Texas	29.71	754.6	29.95	760.7	72.0	22.2	90	se.	7	3.1	.....	0	3 s	.....	se.	0	0	clear	Fred. Belford.
Rochester, N. Y	29.67	753.6	30.34	770.6	42	5.6	92	w.	2	0.9	.....	.....	10s;sk	.....	.....	0	0	cloudy	E. W. McCann.
Roseburg, Oregon	29.40	746.7	29.96	761.0	34.8	1.6	91	ne.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. Nanry.
Sacramento, California	29.88	758.9	29.96	761.0	51.5	10.8	77	e.	1	0.4	.....	.....	10 s	.....	sw.	0	0	cloudy	J. A. Barwick
St. Louis, Missouri	29.67	753.6	30.29	769.4	38.4	3.6	91	e.	8	3.6	.....	1 c	0	.....	.....	inap.	inap.	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.41	747.0	29.44	747.8	29	— 1.7	94	se.	13	5 8	.....	.....	10 s	.....	se.	0.05	1.3	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.54	750.3	30.40	772.1	37.0	2.8	82	calm	0	0	.....	10 k	0	w.	.....	inap.	inap.	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.57	751.1	30.47	773.9	34	1.1	88	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.84	656 3	30.24	768.1	32	0.0	52	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Diego, California	29.89	759.2	29.96	761.0	63.5	17.5	81	n.	2	0.9	.....	.....	10 s	.....	w.	0	0	cloudy	F. R. Day.
Sanford, Florida	29.82	757.4	29.87	758.7	70.0	21.1	97	nw.	9	4.0	.....	.....	fg.	.....	.....	0 16	4.1	dense fog	J. B. Marbury.
Sandusky, Ohio	29.61	752.1	30.30	769.6	44	6.7	76	ne.	21	9.4	.....	.....	10 s	.....	ne.	0	0	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.35	770 9	30.38	771.6	48.0	8.9	63	ne.	21	9.4	.....	10 k	0	ne.	.....	0	0	cloudy	B. A. Blundon
San Francisco, California	29.90	759.4	29.96	761.0	54.4	12.4	84	sw.	3	1.3	.....	4ck;cs	0	w.	.....	inap.	inap.	fair	N. Gorom.
Savannah, Georgia	29.91	759.7	30.00	762.0	62	16.7	87	n.	7	3 1	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.60	675.6	30.30	769.6	6.1	—14.4	76	calm	0	0	.....	0	0	.....	.....	0.09	2.3	clear	S. W. Morrison.
Shreveport, Louisiana	29.81	757.2	30.05	763.3	48.0	8.9	86	ne.	4	1.8	.....	0	3 s	.....	ne.	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W M. Mattingly
Sitka, Alaska	29.86	758.4	29.93	760.2	42.2	5.7	76	e.	11	4.9	.....	.....	8 ks	.....	e.	0.65	16.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.65	753.1	30.13	765.3	48.2	9.0	77	e.	6	2.7	.....	3 cs	0	s.	.....	0	0	clear	J. B. Campbell
Smithville North Carolina	29.97	761.2	30.01	762.2	64.0	17.8	93	ne.	10	4.5	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.32	770.1	28	— 2.2	59	n	1	0.4	.....	0	0	.....	.....	0	0	clear	John F. Hemenway.
Springfield, Illinois	29.62	752.3	30.31	769.9	38	3.3	72	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	26.92	683.8	29.95	760.7	57.0	13.9	93	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.84	757.9	.....	.....	47.5	8.6	73	e.	32	14.3	.....	0	2 s	.....	e.	0	0	clear	R. Connor.
Thomas, Camp, Arizona	27.29	693.2	30.00	762.0	39	3.9	50	w.	.....	.....	1	6 cs	0	w.	.....	0	0	fair	R. C. Lord.
Toledo, Ohio	29.61	752.1	30.31	769.9	39.2	4.0	62	n.	6	2.7	.....	.....	10 s	.....	w.	0	0	cloudy	A. Buell.
Unalashka, Alaska	29.95	760.7	29.97	761.2	48	8.9	86	sw.	20	8.9	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.82	757.4	30.08	764.0	54.8	12.7	90	n.	4	1.8	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C	30.19	766.8	30.31	769.9	45.8	7.7	94	ne.	8	3.6	.....	.....	10 n	.....	ne.	0.17	4.3	light rain	T. B. Harrison.
West Las Animas, Colorado	25.95	659.1	29.88	758.9	42	5.6	82	n.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	F. H. Brandenburg.
Wilmington, N Carolina	30.00	762.0	30.06	763.5	61.0	16.1	93	nw.	5	2.2	.....	.....	10 n	.....	.....	0.26	6.6	light rain	Samuel A. Haney.
Yankton, Dakota	28 97	735.8	30.30	769.6	38.3	3.5	89	ne.	7	3.1	.....	10 c	0	.....	.....	0	0	cloudy	E. H. Thompson.
Yuma, Arizona	29.71	754.6	29.86	758.4	62.8	17.1	46	sw.	1	0.4	.....	.....	10 s	.....	nw.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	77	25.0	.....	n.	.....	.....	*2	0	8 k	.....	n.	0	0	cloudy	W. H. Jackson.
Bogota, U. S. C	22.02	559.2	.....	.....	51.4	10.8	76	calm	0	0	.....	0	6s;ks	.....	.....	0.299	7.6	.....	Joaquin Gomez.
Kingston, Jamaica, W. I	.....	.....	29.92	760.0	75.2	24.0	96	calm	0	c	.....	2 cs	8 s	.....	e.	0.03	0.8	cloudy	Robert Johnstone.
Paramaribo, S. A	30.01	762.2	30.01	762.2	80	26.7	74	se.	.....	.....	2	4 c	5 k	e.	.....	0	0	fair	Dr. C. J. Herme.
Puerto Berrio, U. S. C	29.40	746.7	29.96	761.0	78	25.6	89	calm	.....	.....	0	0	9 k	.....	s	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	74	23.3	90	sse.	.....	.....	1	.....	n	.....	sse.	3.33	84.6	cloudy	Earl Flint.
York Factory, B. A	30.16	766.1	30.22	767.6	32.0	0.0	94	nw.	11	4.9	.....	4 k	4 s	w.	nw.	0.15	3.8	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 09′, E. 26° 18′	30.10	764.5	73	22.8	67	w.			1		6	wsw.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.07	763.8	73	22.8	90	ene.			3		9	ene.						d. clouds.
H. M. S Himalaya, N. 43° 22′, W 27° 10′	30.31	769.9	71	21.7	75	sw.			4		1	wsw.				3	sw.	squally.
H. M. S. Iris, Alexandria, Egypt	30.04	763.0	77	25.0	73	nnw.			3		3							d. clouds.
H. M. S. Inflexible, N. 39° 38′. E. 19° 57′	30.07	763.8	74	23.3	81	se.			3		3	s.				1	se.	d. clouds.
H. M. S. Monarch, Symrna, Turkey in Asia	30.07	763.8	72	22.2	80	w.			2		4	sw.						d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.87	758.7	82	27.8	83	calm			0		5	ssw.						d. clouds.
H. P. M. S. Douro, St. Thomas, W.I	29.89	759.2	80.6	27.0	88	sse.			4		10		se.			3	se.	overcast.
U. S. Navy Yard. Portsmouth, N.H.*	30.42	772.7	30	—1.1	89	calm	0	0			0			0	0			clear.
U. S. S. Jamestown, N. 39° 12′, W. 72° 42′	30.14	765.5	54	12.2	93	ene.			6		10		ene.			mod.	ene.	overcast.
U. S. S. Kearsarge, Alicante, Spain	30.28	769.1	69	20.6	43	se.			2		2		calm					fair.
U. S. S. Lancaster, N 37° 21′ W. 0° 26′	30.30	769.6	72	22.2	62	ne.			2		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I.			39	3.9	73	ne.			2		0					sm'h		clear.
U. S. S. Portsmouth, New York, N.Y	30.37	771.4	45	7.2	92	ene.			4		10		ne.					cloudy.
U. S. S. Powhatan, Boston, Mass	30.44	773.2	32	0.0	90	calm			0		0							clear.
U. S. S. Quinnebaug, Leghorn, Italy	29.96	761.0	62	16.7	61	wsw.			4		0							clear.
U. S. S. Saratoga, Poughkeepsie, N.Y.	30.43	772.9	45	7.2	84	se.			2		8		se.	0	0	sm'h	se.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W.I	29.93	760.2	82	27.8	71	calm			0		2		calm			sm'h		fair.
U. S. S. Vandalia, New York, N. Y †	30.38	771.6	45	7.2	76	e.			2		8							fair.
S. S. British Princess, N. 39° 33′ W. 59° 40′ †	30.27	768.8	62	16.7		nne.			4		9?		ne.	0	0	high	con.	clear?
S. S. Lord Clive, N. 50° 47′, W. 24° 41′ *	29.66	753.4				sw.			4		10			18 h'r	18 h'r	sli't	nw.	rainy.
S. S. Lord Gough, N. 49° 46′, W. 37° 42′	29.46	748.3	58	14.4		s.			6		10		s.	13 h'r	13 h'r	r'gh	sw.	heavy rain.
S. S. Ohio, N 51° 27′, W. 21° 50′ †	29.85	758.2	55	12.8	68	w			3		10		w.	6 h r	6 h'r	large	w	cloudy.
S. S. Nova Scotian, N. 43° 09′, W. 64° 58′			47	8.3		nne.			4		10		nnw.			mod.	ne.	cloudy.
S. S. Prussian, N. 55° 10′, W. 11° 07′	29.54	750.3	52	11.1		wnw.			6		5?		wnw.	sh'rs	sh'rs	h'vy	wnw.	clear ?
S. S. Alvo, Cuba, W.I *	29.87	758.7	80	26.7		ese.			2		8		calm	2 h'r	2 h'r	short	ne.	cloudy.
S. S. Ailsa, Colon, U.S C			77	25.0	91	calm			0		5		calm	2 h'r	2 h'r	sm'h		fine.
S. S. Avilla, N. 24° 57′, W. 67° 43′			79	26.1		ese.			4		8		ese.	rain	rain		e.	
S. S. Dorian, N. 42° 08′, W. 54° 50′	30.15	765.8	54	12.2		nw.			6		8		nw.	sh'rs	sh'rs	mod.	n.	clearing.
S. S. Furnessia, N. 51° 04′. W. 15° 25′†	29.90	759.4	59	15.0	82	wnw.			2		10		nw.	9 h'r	9 h'r	mod.	nw.	cloudy.
S. S. Carroll, N. 44° 34′, W. 63° 10′*†	30.51	774.9	37	2.8	100	n.			3		2		n.	o	o	long	e.	clear.
S. S. Llandaff City, New York, N. Y			46	7.8														misty.
S. S. Cephalonia, N. 46° 55′, W. 38° 44′	29.62	752.3	66	18.9	100	ssw.			6		7		s.	1 h'r	1 h'r	mod	wsw.	misty.
S. S. Bothnia, N. 47° 51′, W. 35° 47′	29.75	755.6	65	18.3	94	ssw.			5		8		ssw.	6 h'r	6 h'r	long	s.	misty.
S. S. Scythia, N. 50° 52′, W. 21° 30′	29.87	758.7	56	13.3	87	wsw.			3		10		w.	3 h'r	3 h'r	h'vy	w.	hazy.
S. S. Samaria, N. 42° 00′, W. 55° 10′ *	30.11	764.8	55	12.8		nw.			6		5?		nw.	3 h'r	3 h'r	r'gh	nnw.	cloudy ?
S. S. France, N. 49° 34′, W. 21° 15′			57.2	14		wsw.			6		10		w.	rain	rain	h'vy	w.	overcast.
S. S. Olinde Rodrignes, N. 10° 10′ W. 79° 02′*†	29.80	756.9	81	27.2		ese.			2		4		e.	o	o	sm'h		fair.
S. S. Arizona. N. 51° 24′, W. 12° 00′	29.84	757.9	56	13.3		wnw.			4		5		w	o	o	long	nw.	fair.
S. S. Wyoming, N. 41° 11′ W. 68° 00′	30.46	773.7	45	7.2		ese.			1		6		sw.	o	o	mod.	e.	fair.
S. S. Bohemia, N. 47° 36′, W 38° 16′						n.			6–9		9		n.	2 h'r	2 h'r	r'gh	n.	overcast.
S. S. Gellert, N. 49° 50′, W. 14° 40′			60	15.6	88	wsw.			5		10?		wsw.	o	o	high	nw.	clear ?
S. S. Silesia, N. 50° —′, W. 14° —′	29.92	760.0	57	13.9		wsw.			5		9		wsw.	o	o	h'vy	wnw.	overcast
S. S. Westphalia, N. 40° 46′, W. 73° 26′			50	10.0	?	ne.			3		3		ne	6 h'r	6 h'r	r'gh	ne	squally.
S. S. Rhaetia, N. 50° 00′ W. 3° 21′	29.82	757.4	57	13.9	94	wsw.			7		9		w.	9 h'r	9 h'r	cross	w.	misty.
S. S. Archimedes, N. 24° 20′. W. 20° 16′	30.06	763.5				ne.			2		0			o	o	light	ne.	fine.
S. S. Hevelius, Liverpool, Eng			53	11.7		w.			4				w.	6 h'r	6 h'r			clear.
S. S. Rosse, N. 1° 35′, W. 28° 36′*	29.94	760.5	82	27.8		se.			3				se.	o	o	sm'h		clear.
S. S. Sirius, N. 6° 06′, W. 46° 18′	29.91	759.7				ene.			2		1		ene.	1 h'r	1 h'r	mod.	se.	clear.
S. S. Rio Grande, N. 26° 37′, W. 87° 54′ †	29.92	760.0	79	26.1		nne.			3		4		w.	o	o	light	ne.	clear
S. S. Chalmette, Algiers, La †	29.97	761.2	65	18.3		ne.			4		10		ne.	o	o			cloudy.
S. S. New York, N. 25° 30′ W. 84° 30′*†	29.94	760.5	79	26.1		nw.			3		2		nnw.	o	o	sm'h		clear.
S. S. Lone Star, N. 25° 46′, W. 84° 47′*†	29.85	758.2	80	26.7		n.			3		2		e.	2 h'r	2 h'r	sm'h		clear.
S. S. Alleghany, Boston, Mass			48	8.9		ene.			3		2		e.	o	o			fair.
S. S. Archimede, N. 37° 33′, W. 47° 08′†	30.07	763.8	78	25.6		ssw.			4		3		ssw.	o	o	r'gh	var.	clear.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	29.90	759.4	82	27.8		ne.			3		8		ne.	o	o	sm'h		fine.
S. S. Cienfuegos, N. 19° 45′ W. 77° 45′			80	26.7		ene.			3		7		ene.	10½	hours	gentle	e.	rain squalls
S. S. Grecian, Glasgow, Scotland	29.46	748.3	48	8.9	92	w.			2		9		wnw.	6 h'r	6 h'r			showery.
S. S. England, N. 41° 18′, W. 57° 20′	30.20	767.1				n.			5		8		n.	sh'rs	sh'rs	mod	n.	squally.
S. S. Erin, N. 45° 12′, W. 42° 57′			67	19.4		wsw.			7		10		sw.	6 h'r	6 h'r	h'vy	wsw.	
S. S. The Queen, N. 47° 56′, W. 37° 30′	29.60	751.8	61	16.1		ssw.			5		10		s.			h'vy	sw.	misty.
S. S. America, N 42° 09′, W. 53° 00′ *	29.92	760.0	57.0	13.9	75	n.			5		4		n.	o	c	r'gh	nne.	fair.
S. S. Donau. N. 42° 28′, W. 57° 56′	30.30	769.6				n.			5		10		n.	1 h'r	1 h'r	r'gh	n.	cloudy.
S. S. Habsburg, N. 49° 36′. W. 17° 05′	29.96	761.0				sw.			6		10			10 h'r	10 h'r	cross	sw.	drizzling.
S. S. Orinoco, Hamilton, Bermuda, Atlantic			76	24.4		e.			3		10		e.	½ h'r	½ h'r			overcast.
S. S. Oder, N. 46° 21′, W. 45° 40′	29.54	750.3	51.8	11.0		wsw.			4		10		wsw.	5½ hr	5½hr	r'gh	ssw.	hazy.
S. S. Ohio, Baltimore. Md	30.36	771.1				ne.			3		10		ne.	9 h'r	9 h'r			cloudy.
S. S. Saller, N. 49° 55′, W. 5° 15′*	29.86	758.4	55.6	13.1		w.			6		10		w.	12 h'r	12 h'r	high	w.	raining.
S. S. Strassburg, N. 49° 41′ W. 17° 57′	29.95	760.7	57.0	13.9	97	wsw.			5		10		wsw.	11 h'r	11 h'r	6-7	w	light rain.
S. S. Werra, N. 50° 18′, W. 20° 58′			57.2	14.0		wsw.			6		10		wsw.	2 h'r	2 h'r	high	wsw.	squally.
S. S. Weser, N. 36° 23′, W. 71° 00′	30.24	768.1	73.4	23.0		ene.			6		10		ene.	12 h'r	12 h'r	h'vy	ene.	rainy.
S. S. Belgenland, N. 48° 53′, W. 17° 45′			59	15.0	88	wsw.			7		10			1 h'r	1 h'r	long	wsw.	overcast.
S. S. Rhyuland, N. 50° 15′, W. 14° 36′	29.86	758.4	54	12.2		w.			6		7		w.	o	o	high	w.	fair.
S. S. Pennland, Antwerp, Belgium			46	7.8	84	sw.			2		8		sw.	2 h'r	2 h'r			cloudy.
S. S. Switzerland, N. 43° 18′, W. 59° 16′ *†	30.26	768.6				nnw.			3		8		nnw.	o	o	r'gh	n	cloudy.
S. S. Waesland, New York, N. Y	30.40	772.1	47	8.3		ene.			4		10		ene.	o	o			overcast.
S. S. P. Caland, N. 50° 00′, W 13° 00′	29.83	757.7	58.3	14.6	95	wsw.			5		10		w.			5	w.	rainy.
S. S. Zaandam, N. 50° 23′ W. 1° —′	29.85	758.2	62.2	16.8	87	w.			6		6		e.	4 h'r	4 h'r			
S. S. Caracas, LaGuayra, Venezuela*†	29.91	759.7	80.5	26.9	78	calm			0		0			o	o	light	ne.	clear.
S. S. W. A. Scholten, N. 47° 32′, W. 43° 45′			55.4	13.0	100	wsw.			4		10		sw.					foggy.
S. S, State of Alabama, N. 45° 17′, W. 28° 11′			64	17.8		wsw.			6		7		nw.	shr's	shr's	r'gh	nw.	fair.
S. S. Thingvalla, N. 55° 14′, W. 28° 29′ †	29.85	758.2	44.6	7.0		w.			5		10		w.	o	o	h'vy	wnw.	covered.
S. S. Romano, N. 43° 20′, W. 39° 14′			72	22.2		sw.			5		8		ssw.	10 h'r	10 h'r	mod.	sw.	
S. S. Salerno, N. 42° 54′ W. 65° 26′*†	30.43	772.9	42	5.6		nnw.			2		6		n.	o	o	sm'h	nne.	fair.
S. S. Ontario, Gulf of St. Lawrence	30.26	768.6	31	— 0.6		nne.			2		1		nne.	o	o	sm'h	nne.	clear.
S. S. Oregon, N. 56° 07′, W. 31° 13′	29.63	752.6	41	5.0		wnw.			5		9		wnw.			long	wnw.	cloudy.
S. S. Quebec, N. 56° 06′, W. 19° 30′	29.49	749.0	47	8.3		w.			6		5		w.	4 h'r	4 h'r	r'gh	w.	fair.
S. S. Texas, La Coruna, Spain			62	16.7	66	w.			1		1		e.	o	o	sm'h		clear.
S. S. Olbers, N. 41° 19′, W. 59° 02′	30.30	769.6	54.5	12.5	100	n.			5		8		nne.	1 h'r	1 h'r	r'gh	ne.	showers.
S. S. Daniel Steinmann, N. 41° 12′, W. 64° 02′ †	30.30	769.6	58	14.4		ene.			3		9		ene.	o	o	r'gh	ne.	cloudy.
S. S. Plantyn, N. 51° 14′, W. 16° 09′	29.86	758.4							6		6		wsw.	4 h'r	4 h'r	h'vy	wnw.	fair.
S. S. Celtic, Liverpool, Eng †	29.70	754.4	50	10.0		nw.			6		8		w.	6 h'r	6 h'r	sm'h		squally.
S. S. Republic, N. 46° 03′ W. 56° 04′*†	29.68	753.9	48	8.9		nne.			6		10		nw.	18 h'r	18 h'r	mod.	n.	raining.
S. S. Iowa, N. 51° 34′, W. 20° 11′ †	29.93	760.2	56	13.3		w			5		9		w.	7 h'r	7 h'r	long	nnw.	cloudy.
S. S. Assyrian Monarch, N. 49° 24′, W. 37° 29′						sw.			6		6		sw.	8 h'r	8 h'r	cross	n;sw.	
Bk. Arda, N. 20° 57′, W. 54° 42′						e.			2		4		e.	o	o	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.11	764.8	49	9.4	85	s.			2		4			o	o			fair
Bg. Abbie Clifford, St. Pierre, Martinique, W.I†	29.91	759.7	79	26.1		calm			0		9		e.	1 h'r	1 h'r			cloudy.
Schr. Arthur Burton, Charleston, S. C.†	30.00	762.0				nne.			3		10		nne.	6 h'r	6 h'r	chop	nne.	overcast.
Schr. Abbie H. Gheen, Baltimore, Md†	30.35	770.9	58	14.4		nne.			2									stormy.
S. S. Antonio Lopez, Cadiz, Spain *	30.27	768.8	64	17.8	62	nnw.			2		1			o	o			clear.
Bg. Alcira, N. 17° 21′, W. 67° 59′	29.94	760.5	85	29.4		ese.			2		3		ene.	o	o	cross	nne.	clear.
Bgt. Achsah, N. 44° 02′. W. 66° 33′			51	10.6		nne.			4		2		nne.	o	o	sm'h		clear.
Schr. Adda Doane, N. 8° 15′, W. 59° 00′*†	29.90	759.4				ese.			2		5		e.	o	o	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Belle of the Bay, N. 25° 12′, W. 89° 08′ †	29.85	758.2				ne.			3		3		ene.	0	0	sm'h	ne.	clear.
S. S. Burswell, N. 37° 18′, E. 19° 40′			82	27.8		s.			3		4		wsw.	0	0	sm'h		fair.
Schr. Clotilde, N. 24° 08′, W. 88° 02′ †	29.90	759.4	81	27.2		ne.			3		2		ne.	0	0	mod.	ne.	clear.
Schr. C. R. Flint, N. 12° 40′, W. 64° 00′†	29.98	761.5	84	28.9		ene.			1		3		ese.	0	0	mod.	ne.	clear.
S. Carondelet, N. 35° 57′, W. 56° 15′ *†	30.16	766.1				nne.			4		9		nne.	0	0	mod.	n.	cloudy.
S. S. D. J. Foley, N. 32° 36′, W. 75° 04*†	30.00	762.0	76	24.4	82	se.			2		3		sse.	0	0	long	e.	clear.
S. Dynomene, N. 0° 25′, W. 26° 04′	29.94	760.5	79	26.1	91	se.			3–4		6			light	light	mod.	se.	misty.
S. E. J. Spicer, New York, N. Y.	30.33	770.4	46	7.8	92	nne.			4		5		nne.	0	0			fair.
Bk. E. D. Bigelow, N. 26° 48′, W. 93° 36′†	29.87	758.7	81	27.2		e.			1		2		e.	2 h'r	2 h'r			fine.
U. S. Fish Com. S. S. Fish Hawk, Brooklyn, N. Y.†	30.40	772.1	51	10.6	79	ne.			3		3		w.	0	0			clear.
Bk. Galeon, N. 25° 58′, W. 69° 15′ †	30.00	762.0	79	26.1		ene.			4		0			0	0	sm'h	e.	blue sky.
Bk. Hattie G. McFarland, N. 20° 30′, W. 60° 18′†	30.02	762.5	82	27.8		ese.			5		4		se	0	0	long	se.	fine.
S. Hedwig, N 34° 26′ W. 74° 30′	30.02	762.6	76.3	24.6	94	sse.			3		7		var.	1 h'r	1 h'r	3	ene.	
Bk. Heinrich & Tonio, N. 43° 38′, W. 27° 40′†	30.35	770.9	66.5	19.2		sw.			5		3		sw.	0	0	mod.	sw.	fair.
Schr. Isabel Alberto, N. 31° 26′, W. 79° 40′†	30.01	762.2				ne.			2		10		e.	rain	rain	high	ene.	stormy.
Schr. Jennie N. Huddell, N. 34° 15′, W. 76° 50′†	30.02	762.5	69	20.6	95	ne.			5		10		ne.	1 h'r	1 h'r	hv'y	ne.	threatening
Bk. John H. Pearson, N. 20° 51′, W. 29° 42′						ene.			4				ene.	0	0	long	nnw.	cloudy.
Schr. John Bracewell, Dover, N. H.						calm			0		0			0	0			clear.
Bg. Josefa, N. 40° 50′, W. 67° 10′†	30.43	772.9				ene.			4		9		e.	0	0	sm'h	ene.	cloudy.
Bkt. John Balzley, N. 39° 17′, W. 62° 19′*†	30.35	770.9				ene.			5		10		e.	0	0	long	ene.	cloudy.
Bg. Lilian, N. 37° 50′, W. 74° 30′ †	30.11	764.8	61	16.1		ne.			7		10		ne.	6 h'r	6 h'r	r'gh	var.	cloudy.
Bg. L. & W. Armstrong, N. 33° 58′, W. 70° 03′*†	30.06	763.5				ese.			6		5		e.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Madrid, N. 36° 59′, W. 0° 24′ †	30.26	768.6	68	20.0	79	nne.			3		3		calm	0	0	sm'h		fair.
S. S. Mendoza, N. 5° 04′, W. 43° 09′						se.			3				se.	0	0	sm'h	se.	clear
Bk. Matilias, N. 45° 44′, W. 32° 56′ *†	30.06	763.5	66.0	18.9		sw.			6–7		10		wsw.	½ h'r	½ h'r	4	sw.	hazy.
Schr. Norena, N. 19° —′, W. 63° 30′*†	30.03	762.7				ese.			4		3		ese.	4 h'r	4 h'r	mod.	var.	showery.
Bk. National Eagle, N. 38° 17′, E. 5° 49′						n.			3		5		n.	rain	rain	mod.	n.	fair.
Schr. Rollin Sanford, N. 29° 08′, W. 84° 36′ †	29.95	760.7				ne.			5		8		ne.	0	0	short	e.	cloudy.
Bg. Rising Sun, N. 15° 50′, W. 62° 40′ †	29.97	761.2	82	27.8		e.			5		5		e.	0	0	mod.	e.	fair.
Bk. Rosalie, N. 3° 33′, W. 28° 14′*†	29.91	759.7				se.			3		0			0	0	light	sse.	clear.
Bk. Saga, N. 54° 44′, E. 4° 36′*†	29.58	751.3	53	11.7		var.			3–7		6		wsw.	5 h'r	5 h'r	r'gh	var.	raining.
S. Salisbury, N. 37° 04′, E. 5° 02′	30.19	766.8	65.3	18.5	84	nne.			5		5 k		nne.	0	0	r'gh		fair.
Bgt. Sunlight, N. 28° 50′, W. 60° 10′ †	30.06	763.5				se.			2		3		ese.	0	0	cross	var.	fair.
Bk. Samuel B. Hale, N. 16° 47′, W. 29° 43′*†	30.12	765.0				ene.			6				ene.	0	0	long	ne.	fine.
Bk. Sunbeam, Rotterdam, Holland †	29.84	757.9	43	6.1	91	ssw.			5		10			1 h'r	1 h'r			light rain.
S. St. Francis, N. 28° 40′, W. 40° 30′ *†	30.32	770.1	80	26.7		ese.			4		2		se.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 10° 04′, W. 58° 12′						e.			5				e.			mod.	n.	fair.
Bk. Southern Belle, N. 29° 30′, W. 27° 30′†	30.17	766.3	70	21.1		e.			4		2		e.	1 h'r	1 h'r	long	nw.	clear.
Schr. Walter L. Plummer, N. 23° 27′, W. 54° 36′*†	30.05	763.3				e.			3		1		se.			sm'h	se.	clear.
Bk. Pilgrim, N. 5° 40′, W. 39° 32′*†	29.95	760.7				e.			2		3		var.	0	0	mod.	var.	
Bk. Achille F, N. 2° —′, W. 40° —′ †	29.95	760.7	82	27.8		e.			4		2		ese.	0	0	sm'h		clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.95	760.7	55	12.8	81	sw.			6		4	sw.				3	sw.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.99	761.7	64	17.8	89	ese.			1		10	s.						d. clouds.
H. M. S. Orontes, S 16° 07′, E. 89° 36′	29.90	761.0	66	18.9	84	se.			5		9					6	sse.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.06	763.5	55	12.8	77	sw.			4–6		6							squally.
U. S. S. Brooklyn, S. 33° 11′, W. 60° 36′*	30.39	771.9	61	16.1	71	ese.	6	2.7			10		ese.	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay*	30.01	762.2	55	12.8	74	ssw.			5		8		sw.			sm'h		fair.
Bk Alpheus Marshall, S. 23° 36′, W. 23° 22′*†	30.10	764.5	72	22.2	95	ene.			5		3		ene.	½ h'r	½ h'r	mod.	ene.	fair.
Bk. Bore, S. 26° 48′, E. 5° 36′*†	30.64	778.2	68	20.0		se.			3		9		se.	0	0	sm'h	s.	cloudy.
Bk. Ceylon, S. 1° 48′. W. 31° 47′†	30.03	762.7	82	27.8	87	ese.			4		2		ese.	0	0	mod.	se.	clear.
S. David Crockett, S. 12° 38′, W. 29° 00′*	29.97	761.2	81	27.2	70	ene.			4		2		ene.	0	0	mod.	ese.	d. clouds.
Bk. E. L. Pettingill, S. 57° 08′, W. 67° 28′*†	29.50	749.3	36	2.2		w.			9		5		wsw.	rain	rain	h'vy	w.	d. clouds.
S. Frank N. Thayer, S. 33° 12′, E. 15° 22′*†	30.05	763.3	60	15.6	71	wsw.			4	c	2 k		s.	0	0	mod.	ssw.	blue sky.
Bg. John Wesley, S. 0° 26′, W. 38° 29′ *†	29.82	757.4	81	27.2		e.			4		3		ese.	0	0	long	e.	hazy.
Bkt. Louise Adelaide, S. 35° 50′, W. 51° 28′ †	30.02	762.5				wsw.			5		6		wsw.	1 h'r	1 h'r	chop	sw.	fair.
Bgt. Willie, Montevideo, Uruguay *†	29.97	761.2	56	13.3		sw.			5		1		sw.	0	0	short	sw.	clear.
Bk. Childwall, S. 39° 20′, W. 22° 22′ *	30.74	780.8	64	17.8		n.			7		4		n.	0	0	mod.	n.	fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Yokohama, Japan	29.81	757.2	68	20.0	95	s.			1		0							blue sky.
H. M. S. Champion, Singapore, Malay Peninsula	29.87	758.7	81	27.2	83	se.			2		10							d. clouds.
H. M. S. Flying Fish, N. 31° 17′, E. 121° 46′	30.24	768.1	74.8	23.8	88	ne.			5–7		10					4	ne.	showery.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.85	758.2	80.5	26.9	83	s.			1		0							blue sky.
H. M. S. Zephyr, N. 26° 05′, E. 119° 52′	30.07	763.8	75	23.9		nw.			5		8	ne.				7	ne.	squally.
H. P. M. S. Tamega, Macao, China	30.01	762.3	81.5	27.5	77	e.			4		10			0	0			overcast.
U. S. Naval Hospital, Yokohama, Japan			63.5	17.5	89	calm			0		0			0	0			clear.
U. S. S. Essex, Nagasaki, Japan	30.00	762.0	70	21.1	90	n.			2		2							fair.
U. S. S. Hartford, N. 7° 06′, W. 81° 51′ *	29.80	759.9	78	25.6	91	wsw.			4		8	s.		light	light	sm'h		cloudy.
U. S. S. Juniata, Canton, China	29.98	761.5	81	27.2	96	calm			0		5		calm	0	0			fair.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.15	765.8	52	11.1	53	nnw.			4		5		n.					fair.
U. S. S. Pensacola, N. 34° 31′, E. 138° 52′ *	29.81	757.2	74	23.3	75	wsw.			4		2		wsw.	0	0			clear.
U. S. S. Ranger, San Francisco, Cal.	29.69	761.7	59	15.0	76	wsw.			1		5			0	0			fair.
U. S. S. Richmond, Yokohama, Japan	29.88	758.9	67	19.4	89	nw.			2		2		nw.	0	0			clear.
S. S. Oceanic, N. 30° 51′, E. 129° 44′	30.03	762.7	76	24.4	91	var.			4		3		wnw.	0	0	sm'h		clear.
S. S. Columbia, N. 37° 54′, W. 122° 45′ †	29.93	760.2	55	12.8	94	se.			1		10		se.			sm'h	se.	light fog.
S. S. Oregon, Columbia River, Oregon †	29.95	760.7	52	11.1	100	calm			0									clear.
S. S. Dakota, Victoria, B. C.			54	12.2	74	baff.					10			0	0	mod.	s.	fogky.
S. S. Orizaba, N. 32° 40′, W. 117° 14′*†	29.94	760.5	63	17.2		s.			1		0			0	0	sm'h	s.	clear.
S. S. Queen of the Pacific, N. 46° 10′, W. 124° 05′†	29.91	759.7	55	12.8	68	n.			5		2			0	0	light	nw.	fair.
S. S. Victoria, Nanaimo, B. C.			35	1.7	90	calm			0		2							fair.
S. S. City of Pekin, N. 35° 20′, E. 141° 38′†	29.95	760.7	74	23.3	83	wsw.			4		5		sw.	0	0	mod.	sw.	fair.
S. S. City of Sydney, N. 23° 30′, W. 153° 40′*†	30.04	763.0	72	22.2	67	ese.			2	8 c		e.				mod.	n.	cloudy.
S. S. Colima, Panama, Panama†	29.93	760.2	77	25.0	91	ne.			2		5		calm	0	0			fair.
S. S. San Blas, N. 19° 22′, W. 105° 27′ †	29.81	757.2	81	27.2		nw.			5		10		wnw.	0	0	mod.	wnw.	cloudy.
S. S. San Juan, N. 20° 12′, W. 105° 08′			83	28.3		ssw.			2		5 ks		se.	0	0	light	ese.	fine.
S. S. Zealandia, N. 32° 50′, W 135° 16′	29.99	761.7	68	20.0	84	W.			4		2			0	0	mod.	sw.	clear.
S. S. Alameda, Honolulu, Sandwich Islands†	30.00	762.0	72	22.2		nne.			2		4		nne.	0	0			fair.
S. Parker M. Whitmore, N. 20° 17′, W. 123° 30′*†	29.92	760.0	75	23.9		nne.			1		10		ne.	5 h'r	5 h'r	mod.		cloudy.
S. S. Strathleven, N. 10° 13′, E. 109° 38′	29.83	757.7	81.5	27.5	83	ne.			1		1			10 minutes		1	ne.	blue sky.
S. Sovereign of the Seas, N. 9° 21′, W. 118° 10′			80	26.7	87	nne.			1		4		nne.	0	0	sm'h	s.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.88	758.9	80.3	26.8	87	n.			2		4					sm'h		d. clouds.
H. M. S. Mutine, Coquimbo, Chili	30.05	763.3	59	15.0		calm			0		3							blue sky.
H. M. S. Nelson, Sydney, N. S. W.	29.81	757.2	60	15.6	94	s.			1–3		6	s.						d. clouds.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	62	16.7	94	sse.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	29.96	761.0	56	13.3	81	calm			0		10							overcast
U. S. S. Onward, Callao, Peru *†	30.10	764.5	61	16.1	88	s.			1		10		s.			mod	w	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili*	30.08	764.0	55	12.8	100	nne.			2		8		calm			sm h		cloudy.
S. S. Australia, Sydney, N. S. W.	30.21	767.3	61	16.1	94	W.			5		4?		sw.	0	0			cloudy.?
S. S. City of New York, Sydney, N. S. W.†	30.15	765.8	64	17.8	73	ne.			1		5?		ne.	0	0			cloudy.?
S. E. B. Sutton, S. 23° 20′, W. 127° 00′ *†	30.03	762.7	75	23.9	90	ne.			4		3			shr's	sh'rs	h'vy	se.	clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
S. Armenia, S. 51° 36′, W. 96° 30′*	29.32	744.7	46	7.8	77	wnw.	.....	.....	6	.....	4	.....	wnw.	½ h'r	½ h'r	h'vy	var.	fair.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.06	763.5	66	18.9	.....	se.	.....	.....	4	.....	10	.....	se.	.....	.....	long	se.	overcast.
S. Storm King, S. 28° 33′, W. 122° 27′*†	30.12	765.0	.....	.....	.....	ne.	.....	.....	6	.....	4	.....	ne.sw.	0	0	long	var.	fine.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.90	759.4	81	27.2	83	sse.	.....	.....	1	.....	4	ese.	.....	.....	.....	.....	.....	d. clouds
H. M. S. London, Zanzibar, Zanzibar	29.91	759.7	79	26.1	95	e.	.....	.....	2	.....	1	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Bushir, Persia	30.07	763.8	85.5	29.7	54	nw.	.....	.....	5–6	.....	0	.....	.....	.....	.....	2	nw.	misty.
Bk. Great Surgeon, S. 22° 15′, E. 102° 00′*†	30.22	767.6	69	20.6	.....	ese.	.....	.....	5	.....	10	.....	e.	2 h'r	2 h'r	r'gh	ese.	cloudy.
Bk. Mohican, S. 41° 55′, E. 34° 15′	29.65	753.1	54	12.2	.....	wsw.	.....	.....	7	.....	6	.....	wsw.	2 h'r	2 h'r	r'gh	wsw.	fair.
S. S. Radnorshire, N. 16° 25′, E. 40° 50′*†	29.90	759.4	.....	.....	.....	s.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Galatia, N. 12° 44′, E. 45° 10′†	29.88	758.9	85	29.4	76	ene.	.....	.....	4	.....	0	.....	.....	0	0	mod.	ne.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 24, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.24	768.1	68.7	20.4	71	n.			1		0			0	0	clear	Roziere.
Algiers			30.26	768.7	66.2	19.0	52	wnw.			1		0			0	0	cloudy	Thève.
La Calle			30.15	765.9	66.9	19.4	64	nw.			4		5			0	0	cloudy	Fonfrède.
Tunis			30.16	766.0	65.1	18.4	67	n.			4		5			0.016	0.4	cloudy	Delord.
Saida			30.28	769.2															Pérès.
Tebessa					52.5	11.4	88	sw			1		4			0	0	cloudy	St. Martin.
Geriville					65.1	18.4	50	n.			2		0			0	0	clear	Forfert.
Laghouat			30.20	767.1	73.8	23.2	46	se.			1		0			0	0	clear	Abraham.
Biskra			30.15	765.7	79.2	26.2	20	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.12	765.0	50.1	10.1	68	ssw.	7	3.1			1			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.88	758.9	29.97	761.2	50.0	10.0	73	w.	5	2.2			1			0.07	1.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.38	746.2	29.97	761.2	43.2	6.2	78	sw.			4		10			0.299	7.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.1	29.87	758.8	44.2	6.8	91	ne.	0	0			10			0.283	7.2		Dr. Wierzbiski
Eperies	28.93	734.8	29.82	757.5	42.8	6.0	87	calm			0		10 n			0.614	15.6		Julius Mikolik.
Gratz	28.66	727.9	29.91	759.8	52.3	11.3	62	n.			3		3			0	0		Andreas Rospini.
Hermannstadt	28.34	719.7	29.76	755.9	50.9	10.5	82	nw.			4		10			0.008	0.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.59	726.0	29.94	760.4	47.1	8.4	76	wnw.			1		10			0.067	1.7		The Staff.
Lemberg	28.79	731.2	29.79	756.6	43.5	6.4	91	ne.			1		10			0.181	4.6		Dr. T. Stanecki.
Pola	29.84	758.0	29.95	760.8	57.6	14.2	84	wnw.			2		0			0.102	2.6		I. R. Hydrographic Office.
Szathmar	29.26	743.2	29.72	755.0	49.3	9.6	94	w.			4		9			0.472	12.0		Joseph Midlinszky, S. J
Szegedin	29.50	749.4	29.79	756.6	47.8	8.8	99	sw.			1		10			0.110	2.8		Karl Stancel.
Trieste	29.88	758.9	29.98	761.4	57.7	14.3	46	w.			1		0			0	0		Royal Academy.
Vienna	29.17	740.9	29.88	759.0	53.6	12.0	47	w.			3		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.40	746.7	29.50	749.3	45.0	7.2	66	ssw.	14	6.3			7			0.150	3.8	d. clouds	W. Boswell.
Armagh, Observatory	29.32	744.7	29.57	751.1	46.0	7.8	94	sse.	10	4.5			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.68	753.9	49.9	9.9	86	sw.	12	5.4			10					raining	John Harnup.
Bolton, Sharples	29.14	740.1	29.68	753.9	47.9	8.8	85	ssw.	3	1.3			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.28	743.7	29.67	753.6	49.1	9.5	77	sw.			2		9			0.43	10.9	overcast	McLandsborough & Preston.
Cardington	29.69	754.1	29.80	756.9	51.0	10.6	86	w.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.67	753.6	29.84	757.9	54.1	12.3	71	w.			1		8			blank	blank	misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.67	753.6	29.90	759.4	56.6	13.7	95	wsw.			4		10					drizzling	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	72.0	22.2	80	e.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.92	760.0	81	27.2	91	ne.			6		2					raining	J. W. Smith.
Galway, Queen's College	29.48	748.8	29.52	749.8	51	10.6	100	sw.			4		9			0.13	3.3	raining.	Wm. Ryan.
Gibraltar, Mediterranean	30.19	766.8	30.24	768.1	65.0	18.3	89	e.			4		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.33	745.0	29.53	750.0	45.9	7.7	88	sw.			3		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.66	753.4	29.84	757.9	54.9	12.7	71	sw.			2		9					overcast	The Staff.
Guernsey	29.64	752.8	29.94	760.5	57.2	14.0	98	w.			3		10					raining	A. Collenette, F. M. S
Kew, Observatory	29.81	757.2	29.84	757.9	52.7	11.5	77	wsw.	9	4.0			10					threatening	The Staff.
Leicester, Museum	29.49	749.0	29.75	755.6	51.4	10.8	79	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	68.6	20.3	57	nw.			2		6			0.03	0.8	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.92	760.0	29.97	761.2	77.0	25.0	95	s.			1		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.24	742.7	29.76	755.9	49.6	9.8	93	ssw.			9		4					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.58	751.3	29.81	757.2	52.3	11.3	83	sw			4		10					overcast	The Staff.
Plymouth	29.79	756.7	29.86	758.4	56.4	13.6	97	wsw.			1		10					misty	John Merrifield.
Sandwick Manse, Orkneys	29.25	742.9	29.35	745.5	42.2	5.7	91						10					raining	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.78	756.4	29.85	758.2	72.0	22.2	66	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.42	747.3	29.70	754.4	51.8	11.0	66	sw.			2		10			0.35	8.9	overcast	W. F. Cooper.
Silloth Rectory	29.56	750.8	29.59	751.6	49.1	9.5	86	w.			3		10			0.470	11.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.69	754.1	49.4	9.7	78	wsw.	11	4.9			10					threatening	Rev. S. J. Perry.
Strathfield Turgiss					51.9	11.1	86	sw.			1.0		10					d clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.81	757.2	29.88	758.9	57	13.9	94	w.			6		10					raining	W. Newcomoe.
Valencia, Observatory	29.66	753.4	29.68	753.9	56.9	13.8	94	wsw.	44	19.7			10					misty	The Met'g'l Office.
Sub-series.																			
Goxo, Episcopal Seminary	29.68	753.9	30.08	764.0	63.3	17.4	67	nw.	12.4	5.5		4 c	5 n	w.	nw.			drizzling	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.48	774.2	30.52	775.2	22.0	— 5.6		w.	3	1.3		10 cs	0			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.39	771.9	30.43	772.9	34	1.1	96	calm	0	0			fg			0	0	light fog	H. J. Cundall, C. E.
Chatham, N. B*	30.38	771.6	30.45	773.4	25	— 3.9	92	sw.	1	0.4			10 s		sw.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	30.08	764.0	30.28	769.1	37.9	3.3	77	e.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	30.38	771.6	30.43	772.9	27.5	— 2.5		w.			1	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T*	27.60	701.0			16	— 8.9	49	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.37	771.4	30.40	772.1	27	— 2.8	96	s.	4	1.8		5 c	0	calm		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.59	751.6	30.48	774.2	28	— 2.2	80	sw.	11	4.9		0	8 ks		w.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.37	771.4	30.44	773.2	28.0	— 2.2	88	calm	0	0			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B	30.33	770.4	30.39	771.9	45	7.2	63	se.	7	3.1			10 n		e.	0	0	threatening	J. Chipman Seeley
Granton, Ontario	29.17	740.9	30.31	769.9	38.0	3.3	00	calm	0	0			10 n			0	0	overcast	Jas. Grant.
Halifax, N. S*	30.31	769.9	30.44	773.2	38	3.3	89	n.	1	0.4			10 k			0	0	cloudy	A. Allison.
Hamilton, Ontario	29.84	757.9	30.23	767.8	41.9	5.5	84	e.			1	10 cs	0	e.		0.04	1.0	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.94	760.5	30.28	769.1	39	3.9	82	n.	6	2.7			10 k		ne.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S	30.43	772.9	30.47	773.9	30.8	— 0.7	64	w.			1	0	0			0	0		C. H. Rigby.
London, Ontario	29.37	746.0	30.30	769.6	39.7	4.3	84	calm			0		10 ks			0	0	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.82	706.6	30.19	766.8	30	— 1.1	84	calm	0	0		0	0		sw.	0	0	clear	John Ewart.
Minnedosa, N. W. T	28.39	721.1	30.41	772.4	30	— 1.1	92	sw.	2	0.9			10 ks			0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	30.12	765.0	30.34	770.6	38	3.3	72	ne.	6	2.7			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	30.09	764.3	30.32	770.1	37.2	2.9	79	ne.				0	9 ks			0	0	d. clouds	A. McGill, M. A.
Parry Sound, Ontario*	29.61	752.1	30.33	770.4	35	1.7	89	n.	7	3.1		2 k	2 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.58	751.3	30.33	770.4	42.7	5.9	90	ne.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.87	758.7	30.01	777.5	34	1.1	75	s.	2	0.9		0	fg			0	0	foggy	W. P. Cooke.
Port Dover, Ontario	29.57	751.1	30.28	769.1	40	4.4	100	ne.	8	3.6			10 n			0	0	threatening	H. Morgan
Port Stanley, Ontario	29.61	752.1	30.28	769.1	41	5.0	79	n.	7	3.1			10 n		ne.	inap	inap.	cloudy	M. Payne
Qu'Appelle, N. W. T	27.94	709.7	30.31	769.9	28	— 2.2	92	s.	15	6.7		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	30.02	762.5	30.40	772.1	37	2.8	85	n.	4	1.8		10 cs	0			0	0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.85	758.2	30.33	770.4	38	3.3	89	se.	2	0.9			10 s		se.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B	30.32	770.1	30.37	771.4	40	4.4	91	e.	1	0.4			10 n			0	0	cloudy	
St. John, N. B	30.20	768.6	30.42	772.7	35.0	1.7	92	nw.	1	0.4			10 n			0.484	12.3	foggy	G. Hutchinson.
Saint John's, N. F	30.11	764.8	30.37	771.4	33.5	0.8	95	w.			1	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.36	771.0	41.0	5.0		n.			4								The Commandant.
Saugeen, Ontario*	29.58	751.3	30.32	770.1	34	1.1	89	calm	0	0			10 s			0	0	cloudy	
Stratford, Ontario	28.98	736.1	30.30	769.6	39.0	3.9	81	ne.	2.0	0.9			10 s			0	0	d. clouds	O. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
CANADIAN.—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	30.41	772.4	30.47	773.9	29	— 1.7	100	calm	0	0		0	hz			0	0	hazy	[illegible], C. E.
Toronto, Ontario*	29.91	759.7	30.31	769.9	42	5.6	80	n.	8	3.6			10 n		ne.	0	0	cloudy	Magnetic Observatory.
Woodstock, Ontario	29.24	742.7	30.33	770.4	40.5	4.7	67	n.	6	2.7			10 k			0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.28	769.1	30.35	770.9	39	3.9	89	e.	3	1.3			10 s		e.	inap.	inap.	light rain	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.03	762.7	30.06	763.5	64.0	17.8	86	se.	23.9	10.7			10 n			0.160	4.1	fine	I. Garfelt.
Cape Town	29.86	758.4			69.5	20.8	57	se.				3 c;ck	0.			0	0		
Springbok Fontein	27.85	707.4			57	13.9	50									0	0		J. T. Eustace.
CHILIAN.																			
Coquimbo	29.98	761.5	30.06	763.5	55.6	13.1	85	se.			1	0	0					clear	Samuel Redolez.
Iquique	30.01	762.3	30.04	763.0	61.7	16.5	74	sw.			3							cloudy	Rafael Moreno.
Niebla	29.79	756.7	29.90	759.4	51.4	10.8	75	e.			1	0	1 n		s.	0	0		Federico Köhling.
Punta Caldera	29.94	760.4	30.02	762.6	57.2	14.0	86	sw.			2	8 c	0	sw.				fair	Manuel Tobar.
Punta Corona	29.98	761.6	30.17	766.4				s.			1	10				0	0	cloudy	Francisco Alvarado.
Valparaiso	30.04	763.1	30.13	765.3	57.2	14.0	85	n.			1	7	2					fair	Paez-I-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.42	645.6																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.43	773.0	30.46	773.7	54.0	12.2	64	nne.	5.6	2.5			3			0	0	fair	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.48	748.7	29.52	749.9	45.9	7.7	93	sw.	11	5			8					raining	Oversergent Fischer.
Fanoe	29.53	750.0	29.55	750.5	49.1	9.5	74	wnw.			4		5						Overloerer Lauridsen.
Godthaab, Greenland	29.50	749.2	29.54	750.3	29.8	— 1.2	84	s.			4		10					snowing	S. Kleinschmidt.
Jacobshavn, Greenland	29.49	749.1	29.54	750.3	20.8	— 6.2		e.			4		6						
Stykkisholm, Iceland	29.09	738.9	29.13	740.0	34.9	1.6	84	e.			2		8						A. O. Thorlacius.
Thorshavn	29.09	738.9	29.11	739.5	43.5	6.4	64	w.	20	9			5						Overloerer Bergh.
Vestervig	29.40	746.7	29.49	749.0	47.3	8.5	73	w.			4		3					raining	Loerer Oesteroot.
EGYPTIAN.																			
Cairo	29.74	755.3			80.1	26.7		ne.	6.9	3.1			6 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.62	752.4	30.27	768.9	56.5	13.6	100	sse.			1		n	w.		0.539	13.7		M. Labroue, Director.
Alençon, Normal School	29.52	749.8	30.07	763.8	57.6	14.2	98	sw.			1				ne.	0.220	5.6		M. Nicot, Director.
Avignon, Normal School	30.02	762.5	30.10	764.5	60.1	15.6	71	sse.			1		5			0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.41	746.9	29.96	760.9	57.6	14.2	78	nw.			2		8 kn		nw.	0.224	5.7	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.68	753.8	29.94	760.4	56.7	13.7	64	w.			2		8		wnw.	0.169	4.3	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.05	737.9	29.96	761.0	52.7	11.5	93	sw.			2		10		ne.	0.20	5.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.93	760.2	30.19	766.9	58.3	14.6	98	w.			2		10		w.	0.335	8.5	raining	M. Rayet, Director.
Bourges, Normal School	29.49	749.1	30.04	763.1	58.1	14.5	82	w.			1		n		w.	0.256	6.5		M. Malet, Director.
Brest, Naval Observatory	29.85	758.1	30.09	764.3	57.6	14.2	84	wnw.			4		10		wnw.	0.295	7.5	misty	M. de Kermarée, Dir.
Caen, Normal School	29.83	757.6	29.90	759.5	60.1	15.6	81	w.			1				w.	0.189	4.8		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.6	29.91	759.7	57.0	13.9	76	sw.			2		10			0.024	0.6	covered	M. Jadot, Director.
Charleville, Normal School	29.37	745.9	29.89	759.2	54.3	12.4	68	wnw.			1		10	nw.		0.173	4.4	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.70	728.9	30.04	763.0	58.6	14.8	76	w.			4		10			0.083	2.1	l't showers	M. Allnard, Director.
Cluny, Normal School	29.21	741.8	30.06	763.6	54.9	12.7	91	sw.			2				sw.	0.205	5.2		M. de Villemontée, Dir.
Commercy, Normal School	29.04	737.7	29.91	759.6	50.9	10.5	90	w.			1		10			0.220	5.6	light rain	Dr. Coulet, Director.
Gap, Normal School	27.52	699.1	30.05	763.2	51.8	11.0	69	calm			0		6 k		nw.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.97	735.7	30.08	764.1	60.4	15.8	69	nw.			2		5		w.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.35	745.6	30.13	765.3	49.6	9.8	79	nne.			2		10 n		n.			sprinkling	M. Ablard, Directoor.
Guéret, Normal School	28.52	724.5	30.12	765.1	54.5	12.5	93	wsw.			1		10 n		w.	0.488	12.4	raining	M. Delorme, Dir.
Lamballe, Normal School	29.70	754.3	29.97	761.3	61.7	16.5	75	w.			2		5		w.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.70	754.3	30.27	768.8	58.5	14.7	80	sw.			4		10			0.008	0.2	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	761.9	30.10	764.5	59.4	15.2	97	w.			3		10		sw.	0.157	4.0	covered	Lt. T. Carre, Director
Lyon, St. Genis-Laval	29.02	737.0	30.09	764.3	48.6	9.2	95	s.			1		10 n			0.016	0.4	raining	M. André, Director.
Mans, Normal School	29.72	754.8	30.02	762.6	58.5	14.7	90	nw.			1		8		nw.	0.256	6.5	very cloudy	M. Richard, Director
Marseille, Observatory	29.82	757.5	30.09	764.3	61.3	16.3	52	wnw.			2		7		wnw.	0	0		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	50.0	10.0	50	n.	5.6	2.5			8			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.95	760.6	30.06	763.4	64.4	18	90	w.			4		2	sse.		0	0	slightly cl'dy	M. Gaizin, Director.
Nancy	29.21	742.0	30.00	762.1	51.4	10.8	93	ssw.			1					0	0		M. Hasse, Director.
Nantes, Observatory	29.97	761.1	30.13	765.2	59.5	15.3	90	wnw.			1		10 n		wnw.	0.776	19.7		M. Larocque, Director.
Perpignan, Observatory	30.06	763.6	30.18	766.5	65.1	18.4	56	nw.	11.2	5.0			10	nnw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.1			33.1	0.6		w.			1		10		w.	0.118	3.0	rain & fog	M. Vausseaut, Director.
Privas, Normal School	29.03	737.3	30.10	764.5	53.6	12	84	s.			1		10		n.	0	0	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	25.13	638.4			43.7	6.5	100	w.			8		10			0.642	16.3	rain & fog	M. Allnard.
Rochefort, Naval Obs'y	30.10	764.6	30.13	765.4	61.2	16.2	91	w.			2		10			0.08	2.	foggy	Lt. E. Ducante, Director.
Roche-sur-Yon, N. School	29.91	759.8	30.13	765.2	59.4	15.2	96	sw.			4		8		w.	0.260	6.6	very cloudy	M. Brodier, Director.
Rodez, Normal School	27.91	708.8	30.02	762.5	53.8	12.1	95	se.			1.5		10 n		se.	0.138	3.5	raining	M. Seger, Director.
Rouen, Normal School	29.90	759.5	29.95	760.7	52.9	11.6	93	se.			1		5	se.		0.205	5.2	cloudy	M. Mouillot, Dir.
St Lô	29.83	757.6	29.97	761.2	57.9	14.4	100	w.			1		5		w	0.16	4.	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.80	757.0	29.97	761.2	57.7	14.3	68	wnw.			2		10	nw.	var.	0.224	5.7	covered	M. Renou, Director.
Toulouse, Observatory	29.53	750.1	30.26	768.6	57.0	13.9	83	w.			6		10	w.		0	0	covered	M. Baillard, Director.
Tours	29.86	758.4	30.04	762.9	60.8	16.0	85	wsw.			1		10		w.	0.323	8.2	rainy	M. de Tastes.
Versailles, Observatory	29.47	748.5	29.96	761.0	56.8	13.8	73	w.			1		5			0.110	2.8	fair	Dr. A. Bernguy, Director.
Sub-series.																			
St. Martin du Hinx	30.17	766.2	30.32	770.0	58.8	14.9	89	nw.	17.7	7.9			8			0.161	4.1		M. Cartier, Director.
GERMAN.																			
Ansbach	28.44	722.4	29.89	759.2	52.2	11.2	72	sw.			4		10	sw.		0	0		Prof. Jnedt.
Bamberg	29.05	737.8	29.89	759.1	52.0	11.1	73	sw.			2		10 n		w.	0.047	1.2	raining	Prof. Dr. Hoh.
Berlin	29.58	751.2	29.72	754.9	48.2	9.0	92	w.			3		10					raining	Dr. Lensch.
Breslau	29.32	744.8	29.85	758.2	48.7	9.3	61	wsw.			3		1	ssw.		0	0		Royal University Obs'y.
Carlsruhe	29.45	747.9	29.91	759.6	54.7	12.6	72	sw.			7		10	sw.		0.020	0.5		Albert Senz.
Cassel	29.05	737.8	29.76	755.9	47.1	8.4	83	w.			6		10	w.		0.154	3.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.47	748.6	29.84	757.9	49.3	9.6	92	sw.			1		10			0.055	1.4		Physical Society.
Friedrichshafen	28.56	725.5	29.99	761.7	51.8	11.0	70	sw.			1		10	w.		0.650	16.5	raining	Wilhelm, Chief Tel.
Hamburg	29.58	751.3	29.67	753.6	47.7	8.7	87	sw.			4		10			0.339	8.6		E. Freier.
Kiel	29.58	751.3	29.60	751.7	48.6	9.2	82	sw.			4		1			0.094	2.4		Pro. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.35	745.4	29.77	756.1	52.0	11.1	72	ssw.			4		10	w.				sprinkling	H. Leppig, Asst.
Magdeburg	29.52	749.7	29.71	754.5	52.2	11.2	79	sw.			3		10	w.		0.035	0.9		Weather Observatory.
Memel	29.82	757.5	29.87	758.7	45.1	7.3	82	se.			4		8 cs						Issermann.
Munich	28.09	713.6	29.95	760.8	53.1	11.7	64	w.			5		8	w.		0	0		Central Station.
Neufahrwasser	29.75	755.6	29.76	756.0	49.8	9.9	68	se.			1		10	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.32	744.8	29.85	758.1	53.4	11.9	79	sw.			2		10			0	0		Dicknether.
Stuttgart	28.94	735.0	29.83	757.6	54.5	12.5	73	w.			5		10			0.059	1.5		Prof. Dr. Schoder.
Wustrow	29.57	751.0	29.59	751.6	46.6	8.1	92	sw.			3		10			0.205	5.2		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.50	749.3	29.87	758.8	71.2	21.8		sw.			1.0		9			0.299	7.6	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.83	757.6	29.88	758.9	82.9	28.3	63	sw.	25.0	11.2			0			0	0	blue sky	
Deesa	29.42	747.2	29.89	759.1	88.1	31.2	27	s.	5.0	2.2			0			0	0	blue sky	
Bombay	29.84	757.8	29.87	758.8	83.4	28.6	74	nw.	14.0	6.3			0			0	0	blue sky	
Poona, Yarrowda	28.03	712.0	29.88	758.9	82.8	27.7	55	se.	3.0	1.3			8			0	0	d. clouds	
Trichinopoly	29.60	751.9	29.88	758.9	87.9	31.1	52	wnw.	0.2	0.1			10			0	0	overcast	
Bellary	28.37	720.7	29.84	757.9	81.0	27.2	63	nnw.	6.0	2.7			6			0	0	d. clouds	
Belgaum	27.36	694.9	29.94	760.4	69.1	20.6	97	w.	4.0	1.8			10	e.		0.85	21.6	thund'rst'm	
Lahore	29.05	738.0	29.80	756.8	78.9	26.1	51	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.98	736.2	29.89	759.1	77.8	25.4	46	calm	0	0			0			0	0	blue sky	
Agra	29.33	744.9	29.89	759.2	84.2	29.0	26	nw.					0			0	0	blue sky	
Nagpur	28.88	733.5	29.93	760.3	76.5	24.7	53	calm	0	0			0			0	0	blue sky	
Jubbulpore	28.57	725.6	29.94	760.3	75.9	24.4	53	calm	0	0			0			0	0	blue sky	
Lucknow	29.52	749.8	29.90	759.4	80.2	26.8	36	calm	0	0			0			0	0	blue sky	
Allahabad	29.58	751.2	29.89	759.2	74.5	23.6	61	se.	2.0	0.9			0			0	0	blue sky	
Patna	29.70	754.3	29.88	759.0	76.9	24.9	54	calm	2.0	0.9			0			0	0	blue sky	
Hazaribagh	27.88	708.0	29.91	759.6	73.6	23.1	40	nnw.	4.2	1.9			0			0	0	blue sky	
Cuttack	29.80	756.9	29.88	759.0	80.2	26.8	71	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.86	758.4	29.88	758.9	77.2	25.1	67	n.	2.0	0.9			0			0	0	blue sky	
Dhubri	29.74	755.5	29.86	758.5	78.1	25.6	86	calm	0.6	0.3			2			0	0	d. clouds	
Chittagong	29.77	756.1	29.86	758.4	78.2	25.7	83	calm	1.2	0.5			0			0	0	blue sky	
Sibsagar	29.55	750.4	29.97	761.1	76.1	24.5	78	sw.	2.0	0.9			1		w.	0	0	d. clouds	
Jeypore	28.45	722.6	29.88	759.0	84.7	29.3	30	w.	2.5	1.1			0		sw.			drizzling	
Zanzibar	29.90	759.4			82.1	27.8	74	sw.	2.7	1.2									
ITALIAN.																			
Udine	29.55	750.6	29.96	761.0	60.6	15.9	61	calm	0	0			6			0	0		Prof. Giovanni Olodig.
Milan	29.44	747.7	29.95	760.8	58.5	14.7	37	nw.	6.3	2.8			4		w.	0	0		Prof. G. V. Schiapparelli
Padua	29.83	757.7	29.94	760.5	59.7	15.4	50	sw.	3.8	1.7			3		nnw.	0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.5	29.95	760.6	57.2	14.0	43	s.	1.8	0.8			4		ne.	0	0		Prof. F. F. Denza.
Genoa	29.79	756.7	29.98	761.6	63.3	17.4	40	sw.	1.8	0.8			2		sw.	0	0		Prof. G. M. Garibaldi.
Mondovi	28.04	712.1	29.96	760.9	53.4	11.9	56	n.			4		5			0	0		Prof. D. C. Bruno.
Pesaro	29.94	760.4	29.98	761.6	57.7	14.3	64	n.	10.5	4.7			3			0	0		Prof. Luigi Guidi.
Florence	29.72	754.8	29.97	761.3	57.9	14.4	64	sw.			2		1			0	0		Prof. Costantino Pittei
Leghorn	29.84	758.0	29.93	760.2	61.9	16.6	58	wsw.	1.3	0.6			4		sw.	0	0		Prof. P. Monte.
Rome	29.80	757.0	29.98	761.4	60.8	16.0	45	n.	1.8	0.8			1			0	0		Prof. P. Tacchini.
Lecce	29.67	753.7	29.93	760.1	64.4	18.0	51	wnw.	12.5	5.6			3			0.181	4.6		Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.97	761.3	59.0	15.0	60	sw.	3.1	1.4			5		w.	0.240	6.1		Prof. D. Conti.
Cagliari	29.87	758.6	30.06	763.4	61.7	16.5	75	nw.			6		0		nw.	0.024	0.6		Prof. A. Pacinotti.
Palermo	29.78	756.3	30.02	762.6	66.7	19.3	50	nw.	8.1	3.6			5		nw.	0.020	0.5		Prof. G. Caccintore.
Syracuse	29.95	760.7	29.99	761.8	67.6	19.8	55	w.	11.9	5.3			7		wsw.	0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.45	748.0	29.97	761.3	59.5	15.3	64	se.	0	0			1		w.	0.291	7.4		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.03	762.9	30.06	763.5	45.5	7.5	96	n.			4		10 k		nw.	0.055	1.4	cloudy	H. Hattori.
Awomori	30.01	762.2	30.04	763.0	38.0	3.3	88	nw.	4.9	2.2			9 s;n			0.066	1.7	raining	K. Ogawa.
Hamamatsu	29.87	758.7	29.97	761.2	61.6	16.4	90	calm			0	1 cs	2 s			0	0	fair	Sekigawa & Yamazaki.
Kagoshima	30.13	765.3	30.14	765.6	65.0	18.3	90	nw.			2	0	2 s			0	0	clear.	G. Miyanohaza.
Kanazawa	30.12	765.0	30.22	767.7	47.4	8.6	92	e.	5.6	2.5			10 n			0.099	2.5	raining	S. Endo.
Kioto	29.86	758.4	30.03	762.8	58.6	14.8	68	nnw.	3.5	1.8		0	8s;ck			0	0	cloudy	M. Tojima.
Kochi	29.99	761.8	30.02	762.3	64.0	17.8	60	w.	8.4	3.8		0	1 s			0	0	clear	K. Kusunose.
Miasaka	30.04	763.0	30.07	763.7	61.9	16.6	70	w.			2	1 ck	0	w.		0	0	clear	K. Masusaki
Miyako	29.92	760.0	30.03	762.8	40.0	4.4	87	wsw.	1.6	0.7		1 ck	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.98	761.5	30.18	766.6	57.5	14.2	61	n.	1.2	0.5		0	0			0	0	clear	S. Takehayasu.
Niigata	30.11	764.8	30.15	765.8	48.2	9.0	78	n.	11.8	5.3			10 n			0.470	11.9	light rain	Satoo & Tomikawa.
Nobiru	30.04	763.1	30.06	763.5	45.1	7.3	82	n.	3.7	1.6		0	3 s			0	0	fair	Yoslino & Midzushina.
Numazu	29.96	761.0	30.00	762.0	54.9	12.7	80	ese.			6		10 ks			0.161	4.1	cloudy	R. Kaneda.
Osaka	30.01	762.2	30.03	762.6	59.0	15.0	76	n.	6.5	2.9			10 s			0	0	cloudy	H. Omura.
Sakai	30.15	765.9	30.16	766.1	55.1	12.8	80	nne.			4		10 n		nne.	1.063	27.0	raining	Yamawchi & Sakamoto.
Shimonoseki	30.01	762.4	30.16	766.1	57.1	13.9	89	nnw.			4	0	0			0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	29.98	761.6	30.06	763.6	49.6	9.8	96	ene.	7.3	3.2			10 n			0.415	10.5	light rain	The Staff.
Wakayama	29.98	761.4	30.03	762.7	61.3	16.3	75	n.	7.4	3.3			10 n		w.	0	0	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	77.4	25.2	69	wsw.	8.0	3.6		0	7ks;n		ese;e	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.33	618.0	30.10	764.5	50.0	10.0	79	nnw.	0.9	0.4		1 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.62	752.4	29.88	758.9	77.0	25.0	95	ene.	0.9	0.4		0	1 s			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	29.84	757.8	29.84	757.8	53.8	12.1		wnw.			4					0.071	1.8		
Groningen	29.64	752.8	29.69	754.2	49.8	9.7		nnw.			4					0.283	7.2		
Helder	29.73	755.1	29.73	755.1	51.8	11.0		wnw.			4					0.110	2.8		
Helleoetsluis	29.79	756.6	29.79	756.6	53.1	11.7	75	w.			3					0.110	2.8		H. van der Brink
Utrecht	29.75	755.7	29.80	756.9	54.9	12.7	72	w.			2		5			0.146	3.7	cloudy	
Sub-series.																			
Batavia, Java	29.81	757.2			81.3	27.4	78	nne.	0	0			7			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	29.28	743.8	29.35	745.4	42.1	5.6	85	s.	13	6			10			0.969	24.6	raining	
Brono	29.25	743.0	29.29	744.0	46.4	8.0	58	se.			6–7		9			0	0		
Christiania	29.25	743.0	29.40	746.7	46.8	8.2	79	ssw.	7	3			7			0.220	5.6		
Gjæsvær	29.71	754.5	29.73	755.1	33.8	1.0		se.			7		0						
Lodingen	29.41	746.9	29.45	748.1	44.6	7.0	55	s.			4		1			0	0		
PORTUGUESE.																			
Angra, Azores					65.3	18.5	86	se.	5.6	2.5			4			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	30.10	764.4	30.18	766.6	70.3	21.3	57	ne.	3.8	1.7			0			0	0		Capt. D. A. de Gunha.
Lisbon, Observatory	29.96	760.9	30.30	769.5	60.8	16.0	44	ne.	7.4	3.3			0			0	0		The Staff
Ponta Delgada, Azores	30.25	768.3	30.32	770.1	70.9	21.6	59	calm	0	0			4			0	0		
Saint Paul de Loando	29.71	754.6	29.91	759.8	76.6	24.8	91	wnw.	1.3	0.6			10			0	0		
San Salvador, Congo	28.03	712.0	29.87	758.7	75.0	23.9	72	calm			0		8			0	0		
Serra da Estrella	25.53	648.4	30.23	767.8	55.4	13.0	37	w.	1.3	0.6			1			0	0		
RUSSIAN.																			
Akmolinski	29.07	738.3	30.19	766.7	35.8	2.1	98	wsw.	16	7			10 n			0.004	0.1		Major K. Lasarew.
Archangel	30.12	765.0	30.14	765.5	32.4	0.2	89	ssw.	4	2			10			0	0		Capt. Sseliwerstow
Ashurada	30.26	768.5	30.16	766.1	66.0	18.9	53	nnw.	11	5		0	0			0	0		
Astrakhan	30.22	767.6	30.15	765.7	54.5	12.5	73	se.	7	3			10 s			0	0		Capt. Wisganow.
Baku	30.17	766.4	30.13	765.2	65.5	18.6	75	ssw.	13	6		0	0			0	0		
Barnaul	29.81	757.1	30.33	770.4	33.4	0.8	70	calm	0	0			9 ks			0	0		Meteorological Obs'y
Bielosersk	29.67	753.5	30.15	765.8	37.0	2.8	91	se.	2	1			0			0	0		
Dorpat	29.70	754.3	29.95	760.6	43.5	6.4	83	ese.	7	3		5 c	0			0	0		Observatory.
Ekaterinburg	29.09	738.9	30.08	764.0	36.9	2.7	67	wsw.	7	3		3ck;cs	9 ks			0	0		Meteorological Obs'y.
Elissawetgrad	29.47	748.4	29.91	759.6	62.1	16.7	61	s.	2	1			0			0	0		
Irkutsk	28.77	730.7	30.48	774.2	34.7	1.0	75	e.			2								
Kasalinsk													10 n			0	0		Observatory.
Kasan	29.89	759.1	30.17	766.2	37.9	3.3	90	n.	2	1			10 k			0.020	0.5	h'vy clouds	
Kem	30.00	761.9	30.05	763.2	31.3	— 0.4	96	s.	9	4		4 c	0			0	0		Lagorio & Sastyrea.
Kertch	29.91	759.6	29.93	760.2	64.9	18.3	75	calm	0	0			10ks;n			0	0		Observatory.
Kieff	29.17	740.9	29.80	756.9	54.3	12.4	89	se.	7	3		0	1 s			blank	blank		
Koslov	29.45	748.1	29.95	760.8	55.6	13.1	77	calm	0	0			9			0	0		E. Quass.
Liban	29.78	756.4	29.80	757.0	46.4	8.0	75	sse.	11	5			1			0	0		Meteorological Obs'y.
Lugan	29.76	755.8	29.96	760.9	62.8	17.1	58	sse.	9	4			10 n			0.398	10.1	raining	Meteorological Obs'y
Moscow	29.55	750.6	30.04	763.0	40.1	4.5	94	s.	2.2	1.1		0	0			0	0		Capt. Kurdakow.
Nikolaiev	29.81	757.2	29.88	759.0	64.9	18.3	69	s.	13	0									

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mts. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor	29.72	754.9	29.81	757.1	17.6	— 8.0	74	w.	7	3		0	0						Iwanow.
Pekin, China	30.40	772.2	30.54	775.8	44.1	6.7	46	sw.	2.2	1.0		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	30.09	764.3	30.45	773 3	59.0	15.0	32	s.	1.1	0.5		0	0			0	0		
Petrozavodsk	29.87	758.7	30.07	763.8	38.3	3.5	85	ssw.	9	4		5 ck	0			0	0		Dr. Bergmann.
Pinsk	29.32	744.7	29.82	757.5	43.2	6.2	97	nne.	11	5			10 n			0.417	10.6		
Poti	29.98	761.5	30 01	762.3	78.1	25.6	70	e.	9	4		0	0			0	0		
St. Petersburg	30.00	762.1	30.03	762.7	42.4	5.8	57	sse.	11	5		0	2 ks			0	0		Central Physical Obs'y.
Samarkand	27.96	710.2	30.51	774.9	45.5	7.5	73	se	7.8	3.5		0	0			0	0		
Semipalatinsk	29.64	752.8	30.32	770.1	39.0	3.9	41	w.	4	2			2			0	0		Major Lasarew
Sevastopol	29.70	754.4	29.91	759.7	65.5	18.6	64	s.	20	9		3 cs	0			0	0		
Staroi Bykhov	29.28	743.8	29.85	758.1	44.2	6.8	94	e.	7	3			10			0.315	8.0		
Tashkend Laboratory	28.80	731.6	30.52	775 2	49.8	9.9	69	calm	0	0		0	0			0.075	1.9		Torch, A. M
Tiflis	28.70	729.0	30.10	764 4	66.4	19.1	42	se.	4	2		0	0			0	0		Physical Observatory.
Vernoe	27.86	707.6	30.45	773.3	41.9	5.5	83	se.	7	3			10 n			0.016	0.4		
Viatka	29.57	751 1	30.23	767.8	33.4	0.8	92	nw.	2	1			10			0	0		
Warsaw	29.44	747.8	29.87	758.7	45.9	7.7	83	calm	0	0			10 kn			0.008	0.2	h'vy clouds	Astronomical Obs'y.
Yeniseisk	30.13	765.3	30.44	773.2	22.6	— 5.2	93	calm	0	0		0	0			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.05	763.2	30.15	765.9	66.9	19.4	63	sw.	3.4	1.5		0	5			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.28	769.2	30.34	770.7	64.0	17.8	69	se.	1.8	0.8			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.34	694 3	30.32	770.1	55.4	13.0	59	w.	2.5	1.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.07	712.9	30.30	769.6	61.3	16.3	44	se.	2.9	1.3		1	0	n.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	30.12	765 0	30.28	769.0	73.6	23.1	38	ssw.	1.3	0.6		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.55	750.6	30.31	769.9	53.6	12.0	85	s.	2.9	1.3		4 k		n.		0	0		Prof. L. G. Fradas.
Santiago, Met. Obs'y	29.39	746.4	30.29	769.3	57.7	14.3	82	sw.	1.3	0.6			10			0.051	1.3	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.88	758.9	29.94	760.6	72.3	22.4	92	se.	2.0	0.9		cs	1 k	nne.		1.50	38.0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.91	760.4	78.0	25.6	78	ne.	13.2	5.9		0	7 ks		ne.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.12	765.0	30.22	767.5	70.3	21.3	52	e.	17.8	8.0		0	0			0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.88	758.9	29.97	761.2	81.0	27.2	91	calm	0	0		1 s	3 k	se.	se.	0	0	clear	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.79	756.6	29.83	757.6	38.5	3.6	93	s.			4		10			0	0		
Umea	29.65	753.2	29.71	754.5	42.4	5.8	91	sw.			6		10			0.248	6.3		
Hernosand	29.54	750.3	29.59	751 6	44.6	7.0	82	s.			6		10			0	0		
Stockholm	29.45	748.0	29.63	752.5	44.8	7.1	90	s.			4		10			0.004	0.1		
Wisby	29.63	752.6	29.69	754.1	45.0	7.2	91	ssw.			4		10			0.071	1.8		
Sub-series.																			
Upsala	29.48	748.9	29.57	751.1	42.4	5.8	94	s.	15.2	6.8			10		s.	0.370	9.4	raining	H.H.Hildebrandesson
SWISS.																			
Geneva	28.66	727.9	30.10	764.4	49.1	9.5	89	nw.			1		10			0.031	0.8	raining.	The Observatory.
TURKISH.																			
Constantinople			29.90	759.4	68.7	20.4	68	s.	11	5.0			0			0	0		The Observatory.
Valona			30.03?	762.8?	64.9	18.3		w.			1		5			1.50	38.	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.92	759.9	80.1	26.7	56	n.			2	1 c				0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.58	675.1			50	10.0	93	calm			0		10 n		calm			raining	Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	30.21	767.3	30.29	769.4	40.5	4.7	89	n.	4	1.8			10 n		n.	0.50	12.7	light rain	J. O. Barnes.
Alpena, Michigan	29.68	753.9	30.35	770.9	26	— 3.3	88	nw.	8	3.6		0	1 s			c	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.97	761 2	32.0	0.0	81	ne.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.25	692.1	30.17	766.3	22	— 5.6	73	s.	5	2.2		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.97	735 8	30.16	766.1	51.0	10.6	93	e.	6	2.7			10 s		e.	0	0	cloudy	Edward A. Beals.
Atlantic City, New Jersey	30.08	764 0	30.09	764.3	43.8	6.6	93	n.	18	8.0			10 s			3.36	85.3	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	56.3	13.5	78	n.	7	3.1			10 s		n.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.17	766 3	30.22	767.6	47	8.3	77	n.	6	2.7			10 s			0.70	17.8	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.06	763.5	30.08	764.0	45.3	7.4	100	ne.	33	14.8			10 n		ne.	3.29	83.6	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.80	731.5	30.42	772.7	36.0	2.2	92	ne.	1	0.4			10 s			0.02	0.5	cloudy	A. Pritchard.
Benton, Fort, Montana	27.26	692 4	30.17	766.3	25	— 3.9	42	calm	0	0		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.56	725.4	30.44	773.1	36	2.2	92	e.	4	1.8			10 s			0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.01	762.2	30.04	763.0	47.0	8.3	56	ne.	36	16.1			10 n		ne.	1.98	50.3	light rain	J. T. Elker.
Boise City, Idaho	27.24	691.9	30.10	764.5	29	— 1.7	88	nw.	4	1.8			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.18	766.6	42.0	5.6	100	ne.	16	7.2			10 n		ne.	1.13	28.7	heavy rain	O. B. Cole.
Brownsville, Texas	29.87	758 7	29.93	760.2	76.0	24.4	90	se.	3	1.3		5 cs	2 ks	s.		0	0	fair	John McGlone.
Buffalo, New York	29.50	749.3	30.26	768.6	45	7.2	96	ne.	3	1.3			10s;sk		ne.	inap.	inap.	dense smoke	Wm. Finn.
Buford, Fort, Dakota	28.27	718.0	30.37	771 4	34	1.1	82	se.	10	4.5			10 s		s.	inap.	inap.	cloudy	A. Schneider.
Cairo, Illinois	29.78	756.4	30.18	766.6	45.8	7.7	85	ne.	8	3.5			10 s			0	0	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.39	746.5	29.59	751.6	50.2	10.1	83	se.	36	16.1			10 s		se.	0.33	8.4	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.08	764.0	30.10	764 5	51.0	10.6	90	n.	28	12.5			10 s		n.	1.04	26.4	cloudy	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	44.5	6.9	87	n.	25	11.2			10 s			2.70	68.6	cloudy	Wm. Bolton.
Cape Mendocino, California	29.08	738.6	29.77	756.1	55.5	13.1	94	se.	68	30.4			10 n		se.	0.15	3.8	light rain	J. J. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763 8	64.0	17.8	97	n.	9	4.0			10 n		ne.	inap.	inap.	light rain	G. W. Davis.
Charleston, S. Carolina	30 01	762.2	30.07	763.8	59.0	15.0	93	n.	11	4.9			10 s		n.	0.06	1.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.16	766.1	50.0	10.0	86	ne.	7	3.2			10 s		ne.	0.03	0.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.13	765.3	56.0	13.3	86	calm	0	0		0	9 s		se.	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.17	713.9	30.19	766.8	6.8	—14.0	80	nw.	3	1.3		0	0			0.03	0.8	clear	E. McGovern.
Chicago, Illinois	29.58	751.3	30.29	769.4	43.5	6.4	64	ne.	12	5.4			10 s		ne.	0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.07	763.8	30.09	764.3	46	7.7	100	n.	24	10.7			10 s		ne.	1.83	46.5	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.56	750.8	30.22	767 6	46.8	8.2	84	ne.	4	1.8			10 s		ne.	0	0	cloudy	L. Dunne.
Cleveland, Ohio	29.48	748.8	30.22	767.6	49.0	9.4	74	e.	2	0.9			10 s		e.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.36	745.7	30.22	767.6	45	7.2	83	nw.	4	1.8			10 s			0	0	cloudy	D. Cuthbertson.
Concho, Fort, Texas	28.21	716.5	30.16	766.1	48.0	8.9	66	n.	14	6.3			10 s		n.	0	0	cloudy	C. E. King.
Custer, Fort, M. T.	27.02	686.3	30.26	768.6	20	— 6.7	87	se.	2	0.9		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.58	751.3	30.24	768.1	41.5	5.3	73	ne.	10	4.5			10 s		ne.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.14	765.5	43.0	6.1	50	n.	8	3 0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.16	715.3	29.95	760.7	39.9	4.4	67	e.	2	0.9		9 k	0	sw.		0	0	cloudy	D. Moore.
Deadwood, Dakota	25.61	650.5	30.29	769.4	27.5	— 2.5	86	calm	0	0		0	0			0.11	2.8	clear	F. Des Willson.
Delaware Breakwater, Del.	30.09	764.3	30.11	764.8	46.5	8.1	96	n.	30	13.4			10 s		n.	1.63	41.4	cloudy	F. W. Mixer.
Denver, Colorado	24.93	633 2	30.19	766.8	27.8	— 2.3	93	e.	4	1.8			10 n			0.11	2.8	light snow	F. M. Neal.
Des Moines, Iowa	29.30	745.7	30.28	769.1	41	5.0	73	e.	8	3.6			10 s		e.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.59	751.6	30.30	769.6	40.0	4.4	82	nw.	9	4.0			10 s			0.01	0.3	cloudy	E. R. Brace.
Dodge City, Kansas	27.57	700.3	30.20	767.1	36	2.2	82	nw.	16	7.2			10 s			0.34	8.6	cloudy	J. H. Bryce.
Dubuque, Iowa	29.61	752.1	30.33	770.4	38.6	3.7	73	ne.	7	3.1			10 s		e.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.69	754.1	30.45	773 4	41	5.0	73	n.	7	3.1			10 s		n.	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.32	770.1	30.39	771.9	43.5	6.4	68	e.	3	1.3			10 s		ne.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.38	695.4	30.18	766.6	34.5	1.4	72	n.	39	17.4		0	2 s			0.28	7.1	clear	J. C. Rickli.
El Paso, Texas	26.38	670.0	30.12	765.0	45.2	7.9	56	ne.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.50	749.3	30.24	768.1	49	9.4	86	calm	0	0			10s;fg		e.	inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.72	754.9	30.59	771 9	37.0	2.8	82	n.	6	2.7		0	9 s		ne.	0	0	cloudy	George Heathcote.
Galveston, Texas	29.90	759.4	29.94	760.5	70.1	21.2	94	se.	11	4.9			10 n		se.	3.43	87.1	heavy rain	E. O'C. Machenney
Grand Haven, Michigan	29.64	752.8	30.31	769.9	37.0	2.8	77	ne.	4	1.8			10 s		ne.	0	0	cloudy	Wm. H. Fallon.

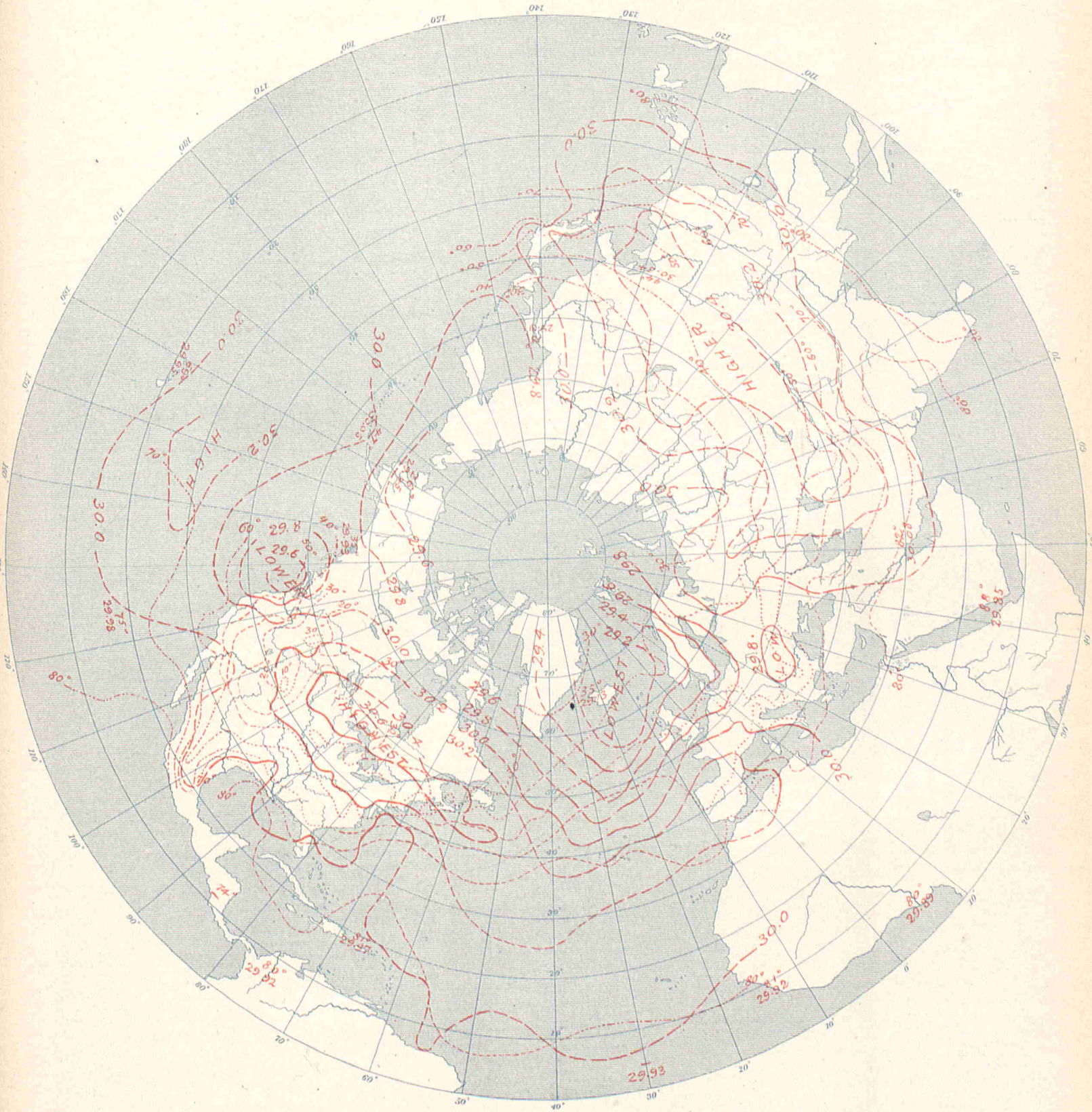
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.25	641.3	29.95	760.7	51.6	10.7	48	ne.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.04	763.0	30.05	763.3	57.0	13.9	90	ne.	25	11.2			10 s		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.87	657.1	30.17	766.3	23	— 5.0	73	sw.	4	1.8		0	0			0	0	clear	F. H. Jones.
Huron, Dakota	28.98	736.1	30.41	772.4	38.3	3.5	91	ne.	4	1.8			10 n			0.10	2.5	light rain	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.20	767.1	43.0	6.1	71	ne.	1	0.4			10 s			0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.92	760.0	29.95	760.7	75.1	23.9	94	s.	7	3.1		0	3s;ks			inap.	inap.	clear	I. A. Reed.
Jacksonville Florida	30.04	763.0	30.08	764.0	60.5	15.8	90	n.	7	3.1			10 s			0.16	4.1	cloudy	J. W. Smith.
Keokuk, Iowa	29.57	751.1	30.24	768.1	39.0	3.9	89	ne.	4	1.8			10 n			0.12	3.0	light rain	F. Z. Gosewisch.
Key West, Florida	29.91	759.7	29.93	760.2	77	25.0	90	e.	5	2.2		0	3 k		e.	1.47	37.3	clear	A. W. Browne.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	55.3	12.9	77	ne.	41	18.3			10 s		ne.	0.12	3.0	cloudy	Wesley Blake.
Knoxville, Tennessee	29.10	739.1	30.14	765.5	52	11.1	95	ne.	3	1.3		0	8 s		ne.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.60	751.8	30.39	771.9	33	0.6	77	n.	5	2.2			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.26	743.2	30.16	766.1	38	3.3	89	ne.	8	3.6			10 n		ne.	0.84	21.3	light rain	T. S. Outram.
Lewiston, Idaho	29.19	741.4	30.04	763.0	38.0	3.3	72	nw.	1	0.4		0	8 s			0	0	cloudy	C. E. Butler.
Little Rock, Arkansas	29.73	755.1	30.05	763.3	55.0	12.8	93	e.	3	1.3			10 n			0.31	7.9	light rain	W. U. Simons.
Los Angeles, California	29.62	752.3	30.02	762.5	52	11.1	66	n.	5	2.2		0	0			inap.	inap.	clear	T. S. Collins.
Louisville, Kentucky	29.58	751.3	30.16	766.1	47.3	8.5	87	n.	8	3.6			10s;fg			0	0	cloudy	L. M. Dey.
Lynchburg, Virginia	29.48	748.8	30.17	766.3	50.5	10.3	75	n	2	0.9			10 s		n.	0.06	1.5	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.70	754.4	30.38	771.6	38.0	3.3	53	ne.	8	3.6		0	0			0	0	clear	D. B. Notson.
Macon, Fort, North Carolina	30.06	763.5	30.08	764.0	54.0	12.2	93	n.	22	9.8			10 s		n.	inap.	inap.	cloudy	William Daly.
Maginnis, Fort, Montana	25.61	650.5	30.15	765.8	26	— 3.3	45	nw.	2	0.9		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.68	753.9	30.42	772.7	38.0	3.3	82	w.	3	1.3			10 s		nw.	0.06	1.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.09	764.3	53	11.7	93	n.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.57	751.1	30.33	770.4	41.6	5.3	60	e.	8	3.6			10 s		ne.	0.02	0.5	cloudy	W. Line.
Mobile, Alabama	30.02	762.5	30.06	763.5	63	17.2	81	e.	5	2.2		4 k	6 s		sw.	0	0	cloudy	H. U. Jones.
Montgomery, Alabama	29.87	758.7	30.10	764.5	61	16.1	78	se.	8	3.6			10 s		se.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.42	747.3	30.44	773.1	34	1.1	88	ne.	3	1.3			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.90	607.0	30.24	768.1	24.0	— 4.4	100	ne.	15	6.7			10n;fg		ne.	0.04	1.0	light snow	S. W. Beall.
Nashville, Tennessee	29.53	750.0	30.11	764.8	53.0	11.7	93	e.	4	1.8			10 ks		e.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.01	762.2	30.13	765.3	37.6	3.1	95	ne.	24	10.7			10 n		ne.	1.03	26.2	light rain	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	40	4.4	100	ne.	15	6.7			10 n		ne.	2.00	50.8	heavy rain	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.02	762.5	64.0	17.8	90	ne.	5	2.2		6c;ck	fg.	nw.		0	0	fair	M. Herman.
New York, New York	29.97	761.2	30.15	765.8	43.0	6.1	83	w.	9	4.0			10 s		w.	1.38	35.1	threatening	H. J. Penrod.
Norfolk, Virginia	30.08	764.0	30.11	764.8	51.0	10.6	86	n.	0	4.0			10s;fg		n.	0.56	14.2	cloudy	Wm. Davis.
North Platte, Nebraska	27.33	694.2	30.29	769.4	32.1	0.1	88	n.	10	4.5			10 n			0.54	13.7	light snow	E. F. Brady.
Olympia, Washington T'y	29.66	753.4	29.70	754.4	46.0	7.8	93	calm	0	0			10 n			0.22	5.6	light rain	J. Dascomb.
Omaha, Nebraska	29.12	739.6	30.32	770.1	35.7	2.1	94	n.	10	4.5			10 n		n.	0.32	8.1	light rain	A. Pollak
Oswego, New York	29.92	760.0	30.25	768.3	45.5	7.5	64	se.	5	2.2		0	4 s			inap.	inap.	fair	J. G. Linsley
Palestine, Texas	29.46	748.3	30.02	762.5	62.0	16.7	100	nw.	4	1.8			10 n		nw.	1.51	38.4	thund'r st'm	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	63.2	17.3	80	ne.	8	3.6			10 s		sw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.16	766.1	43	6.1	83	n.	16	7.2			10 s		n.	1.94	49.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.70	449.6	29.98	761.5	1	—17.2	100	nw.	24	10.7		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.42	747.3	30.24	768.1	47.5	8.6	76	ne.	3	1.3		8 cs	0	ne.		0	0	cloudy	G. C. Schaeffer.
Port Huron, Michigan	29.57	751.1	30.26	768.6	43.8	6.6	73	ne.	11	4.9			10 s			0	0	cloudy	M. H. Perry
Portland, Maine	30.24	768.1	30.29	769.4	41.0	5.0	92	n.	8	3.6			10n;fg			0.06	1.5	light rain	W. W. Eichelberger.
Portland, Oregon	29.05	753.1	29.72	754.9	51.0	10.6	57	se.	4	1.8			10 s		s.	0.01	0.3	threatening	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.82	630.4	29.98	761.5	38.0	3.3	58	sw.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.08	764.0	30.11	764.8	47.2	8.4	93	e.	17	7.6			10 n		e.	1.01	25.7	light rain	C. N. Kitchel.
Red Bluff, California	29.65	753.1	30.01	762.2	52	11.1	86	calm	0	0			10 n			0.22	5.6	light rain	J. R. Williams.
Rio Grande City, Texas	29.74	755.4	29.98	761.5	73.0	22.8	91	se.	2	0.9		0	1 s			0	0	clear	Fred. Belford.
Rochester, N. Y	29.58	751.3	30.26	768.0	43.5	6.4	82	ne.	2	0.9		10 k	sk.			0	0	dense smoke	E. W. McCann.
Roseburg, Oregon	29.21	741.9	29.77	756.1	49	9.4	93	n	3	1.3			10 n		w.	0.12	3.0	light rain	J. J. Nanry.
Sacramento, California	29.94	760.5	30.02	762.5	55.2	12.9	82	se.	5	2.2			8 s			inap.	inap.	cloudy	J. A. Barwick
St. Louis, Missouri	29.57	751.1	30.19	766.8	39.8	4.3	87	ne.	9	4.0			10 n			0.02	0.5	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.41	747.0	29.45	748.0	26	— 3.3	88	w.	24	10.7			10 s			0.06	1.5	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.54	750.3	30.41	772.4	37.5	3.1	72	calm	0	0			10 s		ne.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.55	750.6	30.45	773.4	27	— 2.8	88	calm	0	0		0	3 s			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.70	654.3	30.16	766.1	30	— 1.1	60	e.	2	0.9		0	0			0	0	clear	J. Craig.
San Diego, California	29.92	760.0	29.99	761.7	58.0	14.4	64	n.	1	0.4		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.94	760.5	29.99	761.7	68.0	20.0	90	n.	10	4.5			10 s		n.	0.01	0.3	cloudy	J. B. Marbury.
Sandusky, Ohio	29.58	751.3	30.26	768.6	45	7.2	80	ne.	25	11.2			10 s		ne.	inap.	inap.	cloudy	B. F. Hough.
Sandy Hook, New Jersey	30.11	764.8	30.14	765.5	43.0	6.1	93	ne.	29	13.0			10 n			2.69	68.3	light rain	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	59.0	15.0	94	s.	7	3.1			10 n		sw.	0.04	1.0	light rain	N. Gorom.
Savannah, Georgia	30.02	762.5	30.11	764.8	55	12.8	85	n.	9	4.0			10 ks		nw.	inap.	inap.	threatening	H. W. Ford.
Shaw, Fort, Montana	26.39	670.3	30.09	764.3	33	0.6	81	w.	0	2.7		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.72	754.9	29.96	761.0	57.8	14.3	93	ne.	2	0.9			10 s		ne.	0.07	1.8	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly
Sitka, Alaska	29.86	758.4	29.93	760.2	35.4	1.9	74	e.	5	2.2		0	5 ks		e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.56	750.8	30.04	763.0	55.0	12.8	93	calm	0	0			10 s		e	0.40	10.2	cloudy	J. B. Campbell
Smithville North Carolina	30.06	763.5	30.10	764.5	51.5	10.8	83	ne.	14	6.3			10 s		ne.	0.02	0.5	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.11	764.8	34	1.1	72	n.	9	4.0		0	6 k			0	0	fair	John F. Hemenway.
Springfield, Illinois	29.54	750.3	30.23	767.8	43	6.1	68	ne.	4	1.8			10 s			0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	27.16	689.9	30.19	766.8	49.0	9.4	66	n.	10	4.5			10 s		n.	0	0	cloudy	Louis Dorman.
Tatoosh Id., Wash. Ter	29.56	750.8			43.0	6.1	100	e.	28	12.5			10 n		e.	0.37	9.4	heavy rain	R. Connor.
Thomas, Camp, Arizona	27.32	693.9	30.03	762.7	39	3.9	50	se.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.56	750.8	30.20	768.0	42	5.6	74	n.	8	3.6			10 n		n.	inap.	inap.	light rain	A. Buell.
Unalashka, Alaska	30.03	762.7	30.05	763.3	42	5.6	82	nw.	4	1.8			10 s			0.03	0.8	threatening	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.79	756.7	30.05	763.3	58.7	14.8	91	e.	7	3.1		0	7 s		s.	0	0	fair	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.10	764.5	30.22	767.6	45.0	7.2	86	nw.	6	2.7			10 k		nw.	0.33	8.4	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.27	667.2	30.20	767.1	24.5	— 4.2	77	nw.	3	1.3		0	4 s		n.	0	0	fair	F. H. Brandenburg.
Wilmington, N. Carolina	30.05	763.3	30.11	764.8	52.0	11.1	86	ne.	11	4.9			10 s		ne.	0.04	1.0	cloudy	Samuel A. Haney.
Yankton, Dakota	29.02	737.1	30.34	770.6	37.7	3.2	98	ne.	4	1.8			10 n			0.32	8.1	light rain	E. H. Thompson.
Yuma, Arizona	29.77	756.1	29.92	760.0	61.9	16.6	42	ne.	3	1.3		0	0			inap.	inap.	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw			1	3 ck	5 ks		nw.	0.40	10.2	cloudy	W. H. Jackson.
Bogota, U. S. O.	22.02	559.2			49.1	9.5	81	calm	0	0		1 cs	5s;ks			0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.96	761.0	75.0	23.9	84	n.	2	0.9		3 c	0			0.01	0.3	clear	Robert Johnstone.
Paramaribo, S. A.	30.01	762.2	30.01	762.2	81	27.2	74	se.			3	4 ck	5 k	e.	e.	0	0	fair	Dr. C. J. Herring.
Puerto Berrio, U. S. O.	29.36	745.7	29.92	760.0	80	26.7	85	calm			0		10 ks		calm	0.12	3.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	88	sw.			1		1 ks		sw.	1.32	33.5	clear	Earl Flint.
York Factory, B. A.	30.17	766.3	30.23	767.8	33.5	0.8	95	w.	8	3.6		1 c	0	w.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 38° 14′, E. 26° 16′	29.94	760.5	78	25.6	69	sse.			3		8	sse.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.02	762.5	76	24.4	88	ese.			3		7	ese.						d. clouds.
H. M. S. Himalaya, N. 42° 25′, W 31° 50′	29.91	759.7	67	19.4	84	wsw.			4–6		10					5	wsw.	raining.
H. M. S. Iris, Alexandria, Egypt	29.98	761.5	74	23.3	81	nne.			2		3							d. clouds.
H. M. S. Inflexible, N. 39° 38′, E. 19° 57′	29.93	760.2	70	21.1	70	wnw.			2		3	wnw.						d. clouds.
H. M. S. Monarch, Smyrna, Turkey in Asia	30.00	762.0	75	23.9	86	sse.			2		6	ese.						d. clouds.
H. M. S. Opal, Mouth of Niger river, W. Africa	29.89	759.2	80	26.7	87	ssw.			3		9	ssw.						thnd'rst'rm
H.P. M. S. Duoro, St. Thomas, W.I.	29.87	758.8	83.3	28.5	81	nne.			3		7		se.	2 h'r	2 h'r	2	nw.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.22	767.6	38	3.3	81	ne.	18	8.0			10		ne.	0.5	13.			raining.
U. S. S. Jamestown, N. 38° 56′, W. 72° 51′	29.91	759.7	55	12.8	100	n.			7		10		n.			r'gh	n.	squally.
U. S. S. Kearsarge, Alicante, Spain	30.30	769.6	71	21.7	45	s.			1		2		calm					fair.
U. S. S. Lancaster, Algiers, Africa	30.30	769.6	68	20.0	90	s.			2		2		calm			sm'h		fair.
U. S. S New Hampshire, Newport, R. I.			47	8.3	92	nne.			4		10		calm			sm'h		raining.
U. S. S. Powhatan, Boston, Mass	30.19	766.8	43	6.1	92	nne.			3		10							rainy.
U.S. S. Quinnebaug, Lerhorn, Italy	30.01	762.2	64	17.8	67	sw.			1		2							fair.
U. S. S. Saratoga, Poughkeepsie, N. Y	30.26	768.6	41	5.0	100	nne.			2–4		10		nne.	h'vy	h'vy	sm'h		cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W.I.	29.97	761.2	81	27.2	87	calm			0		2			hv'y	hv'y	sm'h		clear.
U. S. S. Vandalia, New York, N. Y†	30.17	766.3	46	7.8	92	ne.			4		10							raining.
S. S. British Princess, N. 41° 42′. W. 53° 48′ †	30.45	773.4	55	12.8		e.			2		10		ene.	0	0	mod.	ne.	overcast.
S. S. Lord Clive, N. 50° 47′, W. 17° 10′						sw.			6		10			13 h'r	13 h'r	high	var.	cloudy.
S. S. Lord Gough, N. 49° 10′, W. 44° 03′	29.95	760.7	42	5.6		nnw.			6		10		nnw.	0	0	high	nw.	cloudy.
S. S. Ohio, N. 50° 55′, W. 28° 10′ †	29.49	749.0	51	10.6	79	n.			5		10		n.	12 h'r	12 h'r	large	nnw.	cloudy.
S. S. Nova Scotian, N 40° 15′, W. 69° 36′						var.					10		nw.			mod.	ene.	cloudy.
S. S. Prussian, Greenock, Scotland			49	9.4		nw.			4		10		nw.	sh'rs	sh'rs			cloudy.
S. S. Alvo, Port Royal, Jamaica, W. I			81	27.2		e			2		6		calm	0	0			fine.
S. S. Ailsa, Colon, U.S.C			77	25.0	95	e.			2		0			0	0	sm'h		fine.
S. S. Avilla, N. 21° 59′, W. 67° 12′*†	30.00	762.0	82	27.8		ese.			4		4		ese.	rain	rain		se.	
S. S. Dorian, N. 42° 24′, W. 59° 00′	30.41	772.4	52	11.1		ene.			2		10		w.	0	0	sm'h		overcast.
S. S. Furnesia, Queenstown, Ireland †	29.76	755.9	62	16.7	88	ssw.			5		3		ssw.	5 h'r	5 h'r	mod.	ssw.	rainy.
S. S. Carroll, Picton, N. S *†	30.52	775 2	46	7.8	100	ssw			1		3		s.	0	0			fair.
S. S. Llandaff City, New York, N. Y†	30.19	766.8	42	5.6		n.			6		6			0	0			cloudy.
S. S. Cephalonia, N. 45° 17′, W. 43° 12′	30.09	764.3	54	12.2	80	nnw.			8		7		n.	3 h'r	3 h'r	r'gh	nnw.	squally.
S. S. Bothnia, N. 49° 53′, W. 27° 38′	29.47	748 5	57	13.9	94	w.			6		10		w.	12 h'r	12 h'r	r'gh	w.	misty.
S. S. Scythia, N. 50° 14′, W. 27° 00′	29.45	748.0	60	15.6	94	w.			4		10			14 h'r	14 h'r	h'vy	cross	hazy.
S. S. Samaria, N. 43° 00′, W. 49° 00′ *	30.35	770.9	47	8.3		nnw.			3		10		nne.	2 h'r	2 h'r	long	n.	cloudy.
S. S. France, N. 49° 12′, W. 26° 02′			57.2	14		sw.			5		10		sw.	rain	rain	h'vy	sw.	overcast
S. S. Olinde Rodrignes, N. 11° 00′ W. 75° 00′*†	29.81	757.2	82	27.8		ne.			2		3		ne.	shr's	shr's	sm'h		clear.
S. S. Wyoming, Sandy Hook, N. J	30.11	764.8	44	6.7		ne.			6		8		nne.	12 h'r	12 h'r	rg'h	ene.	clearing
S. S. Bohemia, N. 46° 22′, W. 42° 43′						w.			3–6		9		w.	0	0	long	wnw.	overcast.
S. S. Gellert, N. 50° 02′, W. 20° 36′			61	16.1	88	wsw.			6		5?		nw.	4 h'r	4 h'r	high	wsw.	covered?
S. S. Silesia, N. 49° 34′, W. 6° 45′	29.98	761.5	56	13.3		wsw.			5		9		wsw.	16 h'r	16 h'r	long	wnw.	misty.
S. S. Westphalia, New York, N. Y	30.15	765.8	42	5.6	66	n.			2		2		n.	0	0			fair.
S. S. Rhaetia, N. 49° 37′, W. 9° 23′	29.95	760.7	57	13.9	100	wsw.			7		10		w.	4 h'r	4 h'r	cross	wsw.	misty.
S. S. Nessmore, Liverpool, Eng						sw.			5		10			8 h'r	8 h'r			raining.
S. S. Archimedes, N. 21° 01′, W. 22° 14′.	30.09	764.3				ne.			4		7		nne.	0	0	light	nne.	cloudy.
S. S. Hevelius, Liverpool, Eng†	29.69	754.1	57	13.9		w.			5				se.	5 h'r	5 h'r			cloudy.
S. S. Sirius, N. 9° 36′, W. 48° 59′	29.95	760.7				ne.			2		1		ne	0	0	mod	e.	clear.
S. S. Rio Grande, N. 28° 40′, W. 92° 57′†	29.99	761.7	79	26.1		se.			3		9		e.	0	0	light	e.	cloudy.
S. S. Chalmette, Algiers, Lat	29.98	761.5	73	22.8		e.			3		6			1 h'r	1 h'r			fair
S. S. New York, N. 28° 00′, W. 88° 00′*†.	30.04	763.0	79	26.1		ne.			3		2		n.	0	0	sm'h		clear.
S. S. Lone Star, N. 24° 45′, W. 80° 28′*†	29.90	759.4	80	26.7		nne.			3		2		ne.	0	0	sm'h		clear.
S. S. Alleghany, Boston, Mass†	30.27	768.8	44	6.7		ne.			7		10		e.	0	0			stormy.
S. S. Archimede, N. 37° 24′ W. 40° 38′†	30.17	766 3	72	22.2		ene.			4		8		ene.	0	0	r'gh	var.	cloudy.
S. S. City of Washington, N. 19° 50′, W. 90° 49′*†	29.90	759.4	84	28.9		ene.			3		5		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, Guantanamo, Cuba W. I			79	26.1		n.			1		2		ene.	14 h'r	14 h'r			fine.
S. S. Grecian, Glasgow, Scotland	29.56	750.8	48	8.9	92	w.			3		10		w.	2 h'r	2 h'r			cloudy.
S. S. England, N. 41° 55′, W. 51° 13′	30.41	772.4				ene.			4		10		ne.	0	0	high	ne.	overcast.
S. S. Erin, N. 43° 53′. W. 47° 33′			44	6.7		n.			5		7		nw.	4 h'r	4 h'r	h'vy	nnw	fair.
S. S. The Queen, N. 46° 11′, W 42° 35′	30.07	763.8	48	8.9		nnw.			6		8		nnw.	15 h'r	15h'r	high	nnw.	cloudy.
S. S. America, N. 43° 46′ W. 47° 11′*	30.30	769.6	49.0	9.4	71	ene.			5		7		n.	0	0	long	ne.	fair.
S. S. Donau, N. 44° 11′, W. 51° 28′	30.52	775.2				n.			3		9		ne.	0	0	mod.	n.	cloudy.
S. S. Habsburg, N. 49° 36′, W. 9° 32′	29.98	761.5				sw.			5		8		w.	4 h'r	4 h'r	r'gh	sw.	cloudy.
S. S. Orinoco, Hamilton, Bermuda, Atlantic			78	25.6		se.			1		5		se.	½ h'r	½ h'r			fair.
S. S. Main, N. 49° 46′, W. 7° 54′	29.92	760.0	57.2	14.0		w.			6		9		w.	6 h'r	6 h'r	h'vy	wnw.	misty.
S. S. Oder, N. 44° 14′, W. 52° 49′	29.45	748 0	45.5	7.5		nw.			2–3		8		n.	4 h'r	4 h'r	sm'h	ne.	clearing.
S. S. Ohio, Baltimore, Md	30.20	767.1				calm			0		10		ne.	0	0			foggy.
S. S. Salier, N. 51° 34′, E. 2° 05′,*	29.81	757.2	59.0	15.0		nw.			5		10		nw.	0	0	mod.	w.	overcast.
S. S. Strassburg, N. 49° 27′, W. 10° 37′	30.00	762.0	58.0	14.4	97	sw.			0		10		sw	8 h'r	8 h'r	6–7	var.	covered.
S. S. Werra, N. 49° 45′, W 11° 20′			58.1	14.5		w.			4–5		4?		wnw.	0	0	mod.	w.	cloudy.?
S. S. Weser, N. 38° 00′ W. 67° 21′			68.9	20.5		sse.			0		10		sse.	4 h'r	4 h'r	h'vy	se.	rainy.
S. S. Belgenland, N. 49° 26′, W. 10° 30′†	30.02	762.5	66	18.9	64	wsw.			6		10		w	0	0	long	w.	cloudy.
S. S. Rhynland, N. 50° 19′, W. 19° 55′	29.67	763.6	52	11.1		sw.			7		8		ssw.	0	0	high	w.	squally.
S. S. Pennland, Antwerp, Belgium			56	13.3	87	w.			3		2		s.	1 h'r	1 h'r			clear.
S. S. Switzerland, N. 44° 58′, W. 53° 42′*†	30.44	773.2				wnw.			1		10		nnw.	0	0	long	nne.	cloudy.
S. S. Vaderland, Delaware river	30.21	767.3	46.0	7.8		nw.			5		8		ne.	4 h'r	4 h'r	sm'h		cloudy.
S. S. Waesland, New York N. Y	30.15	765.8	47	8.3		ne.			5		10		ne.	16 h'r	16 h'r			cloudy.
S. S. P. Caland, N. 50° 07′, W. 17° 10′	29.68	753.9	58.6	14.8	93	sw.			6		10		w.			5	wsw.	squally.
S. S. Zaandam, N. 52° 27′ E. 4° —	29.81	757.2	58.3	14.6	95	wnw.			5		5		e.	rain	rain			
S. S. Caracas, La Guayra, Venezuela*†	29.91	759.7	79.5	26.4	84	calm			0		0			0	0	light	ne.	clear
S. S. W. A. Scholten, N. 47° 40′, W. 38° 21′	29.98	761.5	51.8	11.0	87	nnw.			6		8		nw.	0	0			
S. S. State of Alabama, N. 44° 11′, W. 31° 29′*†	29.80	756.9	63	17.2		w.			7		10		w.	sh'rs	sh'rs	r'gh	wsw.	squally.
S. S. Thingvalla, N. 56° 29′, W. 21° 57′						nne.			3		10		nne.	0	0	r'gh	var.	covered.
S. S. Romano, N. 44° 23′, W. 33° 28′			67	19.4		w.			5		8		nw.	0	0	mod.	wnw.	hazy.
S. S. Salerno, N. 42° 39′, W. 70° 30′*†	30.25	768.3	48	8.9		ne.			9		10		ne.	1.0	25.	h'vy	ne.	heavy rain.
S. S. Oregon, N. 55° 31′, W. 37° 52′	29.62	752.6	39	3.9		w.			6		9		w.			long	wnw.	cloudy.
S. S. Quebec, N. 55° 46′, W, 12° 42′	29 21	741.9	48	8.9		ese.			4		10		ese.	6 h'r	6 h'r	cross	w.; se	rainy.
S. S. Texas, La Corunr, Spain			62	16.7	77	w.			1		2?		e.	0	0	sm'h		cloudy?
S. S. Olbers, N. 42° 11′ W. 53° 32′	30.46	773.7	54.5	12.5	83	calm			0		9		e.	0	0	r'gh	e; ne.	cloudy.
S. S. Daniel Stemmann, N. 42° 08′, W. 60° 04′ †	30.38	771.6	58	14.4		ene.			3		9		ene.	0	0	hv'y	ene.	cloudy.
S. S. Plantyn, N. 51° 14′, W. 20° 17′	29.35	745.5							4		6		sw.	1 h'r	1 h'r	h'vy	ssw.	
S. S. Celtic, Queenstown, Ireland†	29.77	756.1	56	13.3		sw.			4		10					sm'h		
S. S. Republic, N. 43° 53′, W. 58° 05′ *†	30.38	771.6	47	8.3		e.			1		10		wnw.	0	0	light	ne.	d. clouds.
S. S. Iowa, N. 51° 09′, W. 24° 35 †	29.43	747.7	58	14.4		w.			5		10		w.	18 h'r	18 h'r	long	w.	cloudy.
S. S. Assyrian Monarch, N. 49° 59′, W. 29° 38′	29.62	752.3				nnw.			5		6?		nw.	4 h'r	4 h'r	cf'd	var.	overcast.?
Bk. Arda, N. 20° 51′. W. 57° 01′						e.			2		4		e.	0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′			47	8.3	85	se.			4		6		se.	0	0			fair.
Bg. Abbie Clifford, St. Pierre, Martiniquet	29.91	759.7	78	25.6		calm			0		10		sse.e.	4 h'r	4 h'r			cloudy.
Schr. Arthur Burton, Charleston, S. C.†	30.07	763.8				ne.			4		10		ne.	4 h'r	4 h'r	chop	ne.	threatening.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.24	768.1	58	14.4		n.			1									cloudy
S. S. Antonio Lopez, Cadiz, Spain *	30.23	767.8	68.5	20.3	62	ese.			4		0			0	0			clear.
Bg. Alcira, N. 15° 18′, W. 68° 55′	29.92	760.0	85	29.4		calm			0		5		ese.	0	0	cross	e.	hazy.
Bgt. Achsah, N. 43° 40′, W. 66° 40′†			57	13.9		e.			3		8		e.	0	0	mod.	se.	light rain.
Schr. Adda Doane, N. 10° 00′, W. 61° 25′*†	29.94	760.5				s.			2		4		se.	1 h'r	1 h'r	sm'h		fair.
Bg. Belle of the Bay, N. 25° 44′, W. 88° 57′						ene.			4		4		ene.	0	0	sm'h	ne.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Schr. Clotilde, N. 23° 42′, W. 89° 42′ †	29.98	761.5	83	28.3		ene.			2		2		ne.	0	0	mod.	nne.	clear.
Schr. C. R. Flint, N. 13° 22′, W. 65° 23′†	29.95	760.7	80	26.7		nne.			3		10		nne.	2 h'r	2 h'r	sm'h	ne.	showery.
S. Carondelet, N. 34° 00′, W. 54° 29′*†	30.26	768.6				e.			3		5		e.	0	0	sm'h	ne.	fair.
S. S. D. J. Foley, N. 35° 00′, W. 74° 40′			64	17.8	78	nne.			4		7		n.	2 h'r	2 h'r	r'gh.	n.	fair.
S. E. J. Spicer, New York, N. Y.	30.18	766.6	45	7.2	100	ne.			6		10		ne.	20 h'r	20 h'r			cloudy.
Bk. E. D. Bigelow, N. 26° 58′, W. 93° 15′ †	29.91	759.7	82	27.8		s.			2		3		s.	0	0	sm'h		fine.
U. S. Fish Com S.S. Fish Hawk, Brooklyn, N.Y.†	30.12	765.0	45	7.2	92	nne.			5		10		ne.	1.24	31.5			cloudy.
Bk. Galeon, N. 27° 33′, W. 70° 51′ †	29.98	761.5	79	26.1		sw.			3		3		sw.	0	0	mod.	n.	blue sky
Bk. Hattie G. McFarland, N. 18° 20′, W. 60° 00′†	30.05	763.3	82	27.8		ese.			5		0		se.	6 h'r	6 h'r	short	sse.	hazy.
S. Hedwig, N. 35° 35′, W. 73° 14′	29.97	761.2	67.6	19.8	92	nw.			5		10		nw.	3 h'r	3 h'r	3	ne	
Bk. Heinrich & Tonio, N. 44° 10′, W. 30° 50′†	29.84	757.9	65	18.3		sw.			2-6		10			3 h'r	3 h'r	high	sw.	rainy.
Schr. Isabel Alberto, N. 31° 20′, W. 78° 19′ †	30.06	763.5				nne.			6		5		n.	rain	rain	r'gh	var.	
Schr. Jennie N. Huddell, N. 34° 20′, W. 77° 10′ †	30.10	764.5	59	15.0	88	n.			6		10		n.	3 h'r	3 h'r	h'vy	ne.	fair.
Bg. John Wesley, N. 2° 04′, W. 40° 33′			82	27.8		e.			4		3		e.	0	0	mod.	e.	hazy.
Bk. John H. Pearson, N. 20° 23′, W. 31° 17′						ene.			1				ene.	0	0	long	nnw.	cloudy.
Schr. John Bracewell, Dover, N. H.†	30.33	770.4				ne.			4		10		ne.	rain	rain			cloudy.
Bg. Josefa, N. 38° 50′, W. 68° 20′†	29.97	761.2				sse.			7		10			8 h'r	8 h'r	r'gh	se.	raining.
Bkt. John Balzley, N. 38° 00′, W. 53° 02′*†	30.29	769.4				ese.			5		3		s.	light	light	long	ene.	d. clouds.
Bg. Lilian, N. 37° 30′, W. 74° 20′†	30.00	762.0	64	17.8		n.			7		10		n.	4 h'r	4 h'r	r'gh	nne.	cloudy.
Bg. L. & W. Armstrong, N. 33° 10′, W. 69° 45′ *†	29.92	760.0				s.			4		6		sse.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Madrid, N. 36° 08′, W. 4° 43′†	30.28	769.1	72	22.2	85	ene.			2		0			0	0			fair.
S. S. Mendoza, N. 7° 09′, W. 45° 23′						ese.			2				ese.	0	0	sm'h	ese.	clear.
Bk. Matthias, N. 46° 44′, W. 27° 57′*†	29.64	752.8	60	15.6		sw.			7-8		10		wsw.	6 h'r	6 h'r	7	var.	raining.
Schr. Norena, N. 18° 05′, W. 65° 38′*†	30.04	763.0				e.			2		2		e.	2 h'r	2 h'r	sm'h		
Bk. National Eagle, N. 38° 17′, E. 5° 18′						nw.			3		2		nw.	0	0	high	n.	clear.
Schr. Rollin Sanford, N. 27° 00′, W. 82° 45′†	30.02	762.5				ne.			6		10		nne.	0	0	short	ne.	cloudy.
Bg. Rising Sun, N. 18° 00′, W. 64° 20′†	29.97	761.2	82	27.8		e.			5		4		e.	0	0	mod.	e.	clear.
Bk. Rosalie, N. 2° 33′, W. 29° 55′*†	29.93	760.2				s.			4		2		sse.	0	0	light	sse.	clear.
Bk. Saga, N. 54° 16′, E. 4° 38′			53	11.7		var.			6-7		7		var.	16 h'r	16 h'r	r'gh		fair.
S. Salisbury, N. 37° 09′, E. 7° 06′	30.15	765.8	72.1	22.3	73	wnw.			6		7 km			½ h'r	½ h'r	cross	var.	cloudy
Bgt. Sunlight, N. 27° 19′, W. 60° 10′†	30.12	765.0				se.			3		5		e.	½ h'r	½ h'r	cross	var.	fair.
Bk. Samuel B. Hale, N. 13° 50′, W. 29° 02′*†	30.12	765.0				ene.			5				ene.	0	0	long	ne.	fine.
Bk. Sunbeam, Rotterdam, Holland †	29.74	755.4	52	11.1	93	wnw.			3		0			0	0			clear
S. St. Francis, N. 26° 57′, W. 41° 25′ *†	30.28	769.1	82	27.8		e.			3		2		e.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 12° 58′, W. 57° 58′*†	29.90	759.4				e.			5				e.			mod.	ene.	fine.
Bk. Southern Belle, N. 28° 35′, W. 29° 30′†	30.05	763.3	67	19.4		ne.			4		2		ne.	1 h'r	1 h'r	mod.	nw.	clear.
Schr. Walter L. Plummer, N. 23° 12′, W. 57° 18′*†	30.08	764.0				ese.			3		5		se.			sm'h	ese.	fair.
Bk. Pilgrim, N. 7° 05′, W. 40° 16′ *†	30.00	762.0				ene.			2		4		ene.	2 h'r	2 h'r	mod.	var.	
Bk. Achille F, N. 3°—′, W. 42°—′ †	29.95	760.7	82	27.8		e.			4		2		se.	0	0	sm'h		clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	30.10	764.5	56.5	13.6	75	ese.			3		3	ne.				1	se.	blue sky
H. M. S. Boadicea, S. 33° 34′, E. 17° 54′	29.95	760.7	63	17.2	100	se.			4		7	e.				2	sse.	d. clouds.
H. M. S. Orontes, S. 19° 26′, E. 10° 13′	29.98	761.5	66	18.9	84	se.			4		6	wsw.				6	sse.	d. clouds
H. M. S. Sylvia, Montevideo, Uruguay	30.20	767.1	56	13.3	67	e.			2		5	e.						d. clouds.
U. S. S. Brooklyn, S. 34° 09′, W. 4° 01′*	30.43	772.9	61	16.1	77	ese.	6	2.7			10		ese.	0	0	sm'h		cloudy
U. S. S. Nipsic, Montevideo, Uruguay *	30.15	765.8	55	12.8	81	ese.			2		2					mod.		fair.
S. S. Rosse, S. 2° 11′, W. 29° 59 *	29.94	760.5	80	26.7		ese.			4		1		ese.	0	0	light	se.	clear.
Bk. Alpheus Marshall, S. 26° 19′, W 22° 37′*†	30.16	766.1	72	22.2	95	ne.			3		5		ne.	0	0	sm'h	ene	fair.
Bk. Bore, S. 25° 03′, E. 3° 13′*†	30.57	776.5	69	20.6		s.			4		5		s.	2 h'r	2 h'r	sm'h	s	fair.
Bk. Ceylon, S. 4° 45′, W. 32° 25′ †	30.07	763.8	81	27.2	87	ese.			4		1			0	0	mod.	ese.	clear
S. Dynomene, S. 2° 00′, W. 28° 15′	29.96	761.0	79	26.1	91	se.			4		6			light	light	mod.	ese.	misty.
S. David Crocket, S. 10° 21′, W. 30° 56′ *	29.97	761.2	82.5	28.1	73	ene.			4		7		ene	6 h'r	6 h'r	mod.	ese.	raining.
Bk. E. L. Pettingill, S. 57° 49′, W. 68° 22′*†	29.50	749.3	40	4.4		wnw.			4		8		wsw.	light	light	mod.	wsw.	cloudy.
S. Frank N. Thayer, S. 32° 07′, E. 13° 46′ *†	29.97	761.2	62	16.7	82	sse.			6		9 km		sse.	1 h'r	1 h'r	large	ssw.	d. clouds.
Bkt. Louise Adelaide, S. 34° 55′, W. 47° 05′ †	30.07	763.8				ssw.			6		2		ssw.	2 h'r	2 h'r	r'gh	ssw.	fair.
Bgt. Willie, Montevideo, Uruguay*†	30.11	764.8	58	14.4		e.			3		1		e.	0	0	sm'h		clear.
Bk. Childwall, S. 40° 39′, W. 17° 34′ *	29.82	757.4	57	13.9		n.			6		10		n.	6 h'r	6 h'r	mod.	n.	raining.
District No. 3—North Pacific.																		
H. M. S. Audacious, Simoda, Japan			59	15.0	88	ne.			3-6		7	ne.						drizzling.
H. M. S. Champion, Singapore, Malay Peninsula	29.85	758.2	81	27.2	91	calm			0		3							d. clouds.
H. M. S. Flying Fish, N. 31° 17′, E. 121° 46′	30.44	773.2	61	16.1	74	n.			5-6		10					4	n.	squally
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.83	757.7	79.5	20.4	97	nnw.			2		7							misty.
H. M. S. Zephyr, N. 24° 50′, E. 119° 25′	30.09	764.3	70	21.1		ne.			6-8		8	ne.				7	ne.	squally.
H. P. M S. Tamega, Macao, China	30.07	763.8	77.9	25.5	86	nne.			3		10			18 h'r	18 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.06	763.5	52.5	11.4	93	nnw.			2		10		nne.	0.47	11.9			drizzling.
U. S. S. Essex, Nagasaki, Japan	30.17	766.3	64	17.8	62	n.			1		2							clear.
U. S. S. Hartford, N. 8° 00′, W. 79° 45′ *	29.83	757.7	80	26.7	87	nw.			4		10			6 h'r	6 h'r	sm'h		cloudy.
U. S. S. Juniata, Canton, China	30.10	764.5	71	21.7	100	nne.			4		10		ne.	light	light			raining.
U. S. S. Monocacy, N. 37° 28′, E 126° 36′	30.36	771.1	45	7.2	53	nw.			4		2		nw.					fair.
U. S. S. Pensacola, N. 33° 24′, E. 135° 44′			71	21.7	58	w.			2		2		wnw.	mod.	mod.			fair.
U. S. S. Ranger, San Francisco, Cal	30.06	763.5	61	16.1	88	s.			2		10			0	0			overcast.
U. S. S. Richmond, N. 34° 34′, E. 139° 00′	30.00	762.0	59	15.0	94	nne.			5		10		nne.	3.0	76.			cloudy
S. S. Oceanic, N. 28° 19′, E. 125° 39′	30.32	770.1	69	20.6	95	nw.			4		6		nw.	0	0	3	nw.	fair.
S. S. Oregon, Columbia River, Oregon†	29.75	755.6	49	9.4	85	calm			0		10		se.					light rain.
S. S. Dakota, N. 47° 39′, W. 124° 50′†	29.52	749.8	52	11.1	79	se.			4		7			rain	rain		sw.	light rain.
S. S. Orizaba, N. 33° 43′, W. 118° 15′ *†	30.00	762.0	59	15.0	88	w.			2		0			0	0	sm'h	w.	clear.
S. S. Victoria, off Victoria, B. C.†	29.70	754.4	38	3.3	90	nne.			4		8							rainy.
S. S. City of Pekin, N. 37° 08′, E. 146° 25′†	29.90	759.4	62	16.7	95	n.			6		10		sw.	mod.	mod.	mod.	n.	rainy.
S. S. City of Sydney, N. 26° 15′, W. 149° 10′*†	30.23	767.8	66	18.9	95	ne.			4		8 k		ne.			mod.	n.	cloudy.
S. S. Colima, Panama, Panama†	29.92	760.0	76	24.4	91	ne.			1		8		calm	0.03	0.8			cloudy.
S. S. San Blas, N. 21° 50′, W. 106° 02′†	29.86	758.4	80	26.7		nw.			4		0			0	0	sm'h	wnw.	clear.
S. S. San Juan, N. 17° 58′, W. 102° 48′			84	28.9		wsw.			2		0?			0	0	light	wsw.	overcast.?
S. S. Zealandia, N. 30° 31′, W. 140° 22′	30.23	767.8	71	21.7	75	n.			3		2			0	0	long	nnw.	clear.
S. S. Alameda, Honolulu, Sandwich Islands†	29.95	760.7	69	20.6		calm			0		2		nne.	0	0			fair.
S. Parker M. Whitmore, N 18° 15′, W. 123° 00′ *†	29.98	761.5	75	23.9		ne.			3		0			0	0	sm'h		clear.
S. S. Strathleven, N. 6° 04′, E. 107° 25′	29.81	757.2	81.5	27.5	78	w.			2		1			hv'y	hv'y			blue sky.
S. Sovereign of the Seas, N. 9° 45′, W. 118° 06′ *†	29.98	761.5	78	25.6	87	ene.			1		2			0	0	sm'h	s.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.85	758.2	80.3	26.8	87	ne.			1		5					sm'h		d. clouds.
H. M. S. Mutine, Coquimbo, Chili	30.15	765.8	58	14.4		calm			0		3							blue sky.
H. M. S. Nelson, Sydney, N. S. W	29.72	754.9	60	15.6	94	wsw.			1		10							raining.
U. S. S. Iroquois, Callao, Peru	30.02	762.5	62	16.7	83	sse.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.09	764.3	57	13.9	81	calm			0		8		w.					cloudy
U. S. S. Onward, Callao, Peru*†	30.12	765.0	61	16.1	88	s.			1		10		s.			mod	w.	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili *	30.14	765.5	55	12.8	93	calm			0		5		calm			sm'h		fair.
S. S. Australia, Sydney, N. S. W	30.10	764.5	61	16.1	94	w			4		0		w.	0	0			cloudy.?
S. S City of New York, Sydney, N S. W†	29.95	760.7	67	19.4	74	ese.			1		0			0	0			clear.
S. E. B. Sutton, S. 25° 30′, W. 125° 00′ *†	30.07	763.8	74	23.3	95	nnw.			3		8		nw.	2 h'r	2 h'r	h'vy	var.	cloudy.
S. Armenia, S. 53° 05′, W 91° 25′*	29.45	748.0	50	10.0	86	nw.			5		10		nw.	0	0	r'gh	var.	misty.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9		se.			5		10		se.			long	se.	overcast.
S. Storm King, S. 31° 07′, W. 120° 42′ *†	30.12	765.0				n.			0		10		n;sw.	½ h'r	½ h'r	long	var.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.89	759.2	81	27.2	83	sse.	.....	.....	1	.....	6	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar	29.89	759.2	80	26.7	91	calm	.....	.....	0	.....	2	sse.	.....	.....	.....	0	s.	blue sky.
H. M S. Woodlark, Bushir, Persia	30.08	764.0	81.5	27.5	59	nw.	.....	.....	5	.....	2	.....	.....	.....	.....	2	nw.	squally.
Bk. Great Surgeon, S. 18° 24′ E. 102° 44′*†	30.10	764.5	72	22.2	.....	e.	.....	.....	5	.....	8	.....	n.	0	0	rg'h	se.	cloudy.
Bk. Mohican, S. 41° 40′, E. 38° 28′	30.12	765.0	48	8.9	.....	ssw.	.....	.....	7	.....	5	.....	sw.	½ h'r	½ h'r	r'gh	sw.	cloudy.
S. S. Radnorshire, N. 13° 25′, E. 43° 00′*†	29.89	759.2	.....	.....	.....	s.	.....	.....	6	.....	hz.	.....	.....	0	0	r'gh	ssw.	hazy.
S. S. Galatia, N. 14° 29′, E. 42° 28′†	29.85	758.2	88	31.1	76	s.	.....	.....	4	.....	0	.....	.....	0	0	mod.	s.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 25, 1883,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.19	766.8	68.4	20.2	85	s.			1		0			0	0	clear	Roziere.
Algiers			30.24	768.1	64.4	18.0	84	ne.			3		0			0	0	clear	Thève.
La Galle			30.13	765.4	71.2	21.8	82	ne.			2		5			0.276	7.0	cloudy	Fonfrède.
Tunis			30.10	764.4	64.0	17.8	72	nw.			3		5			0.307	7.8	cloudy	Delord.
Saida			30.26	768.6															Pérès.
Tebessa					52.2	11.2	54	ne.			1		2			0	0	fair	St. Martin.
Geriville					75.7	24.3	9	nw.			1		0			0	0	clear	Forfert.
Laghouat			30.22	767.5	67.6	19.8	60	se.			2		0			0	0	clear	Abraham.
Biskra			30.16	766.0	76.3	24.6	65	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.90	759.4	55.0	12.8	60	wsw.	3	1.3			0			0	0	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.82	757.4	29.91	759.7	50.0	10.0	86	se.	6	2.7			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.51	749.5	30.06	763.6	51.1	10.6	69	ne.			1		10			0.043	1.1		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.19	741.5	29.97	761.1	49.6	9.8	66	ne.	4.9	2.2			0			0.004	0.1		Dr. Wierzbiski
Eperies	29.09	738.8	29.97	761.3	50.4	10.2	76	calm			0	cs	7 s			0	0		Julius Mikolik.
Gratz	28.79	731.3	30.04	763.1	54.3	12.4	75	nw.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.55	725.1	29.98	761.6	52.2	11.2	78	nw.			3		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.2	30.01	762.3	52.0	11.1	95	w.			2		10			0.375	8.0		The Staff.
Lemberg	29.00	736.6	30.00	762.0	45.9	7.7	86	nw.			4		10			0	0		Dr. T. Stanecki.
Pola	29.95	760.7	30.06	763.5	61.3	16.3	56	sw.			1		7			0	0		I. R.Hydrographic Office.
Szathmar	29.54	750.3	30.01	762.3	47.8	8.8	88	w.			2		9			0	0		Joseph Midlinszky, S. J
Szegedin	29.72	754.9	30.00	762.1	50.4	10.2	86	calm			0		9			0	0		Karl Stancel.
Trieste	30.00	762.0	30.10	764.5	61.5	16.4	62	calm			0		10			0	0		Royal Academy.
Vienna	29.32	744.6	30.00	762.0	53.8	12.1	73	w.			1		10			0.043	1.1		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.21	741.9	29.31	744.5	50.7	10.4	47	w.	29	13.0			2			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.41	747.0	29.66	753.4	52.2	11.2	74	sw.	13	5.8			3					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.68	753.9	54.0	12.2	75	wsw.	21	9.4			2					blue sky	John Hartnup.
Bolton, Sharples	29.13	739.9	29.66	753.4	51.6	10.9	79	wsw.	24	10.7			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.21	741.9	29.61	752.1	52.3	11.3	82	nw.			5		4			0.01	0.3	d. clouds	McLandsborough & Preston.
Cardington	29.62	752.3	29.73	755.1	61.0	16.1	82	w.			6.0		9					overcast	John McLaren.
Chatham, School M. E.	29.65	753.1	29.82	757.4	60.0	15.6	80	sw.			1		9			blank	blank	gloomy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.70	754.4	29.93	760.2	58.7	14.8	90	sw.			5		7					d. clouds	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	64.5	18.1	97	se.			1		10					raining	C. Stares, A.H.C.
Freetown, Sierra Leone	29.69	754.1	29.92	760.0	84	28.9	75	s.			4		0?					raining?	J. W. Smith.
Galway, Queen's College	29.63	752.6	29.67	753.6	52	11.1	79	w.			2		7			0.81	20.6	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.04	763.0	30.09	764.3	67.0	19.4	89	ne.			3		5					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	29.23	742.4	29.44	747.8	48.0	8.9	70	wsw.			5		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.81	757.2	61.1	16.2	80	sw.			5		10					overcast	The Staff.
Guernsey	29.70	754.4	30.00	762.0	58.0	14.4	91	wsw.			4		10					overcast	A. Collenette, F. M. S
Kew, Observatory	29.79	756.7	29.83	757.7	59.8	15.4	79	wsw.	18	8.0			10					overcast	The Staff.
Leicester, Museum	29.42	747.3	29.67	753.6	62.2	16.8	77	sw.			4		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	67.6	19.8	53	ne.			3		6			0	0	d. clouds	Corpl. Keene, A. H. C
Nassau, Bahamas	29.96	761.0	30.00	762.0	80.0	26.7	78	se.			1		5			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.19	741.4	29.72	754.9	58.7	14.8	92	ssw.			6		9					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.56	750.8	29.79	756.7	58.1	14.5	91	sw.			6		10					drizzling	The Staff.
Plymouth	29.83	757.7	29.91	759.7	57.2	14.0	94	sw.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.07	738.4	29.17	740.9	45.4	7.4	72						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey																			W. H. Lyne.
Sheffield	29.38	746.2	29.66	753.4	57.2	14.0	69	ssw.			2		2			0	0		W. F. Cooper.
Silloth Rectory	29.56	750.8	29.59	751.6	53.0	11.7	80	wsw.			4		4			0.025	0.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.66	753.4	51.9	11.1	73	w.	27	12.1			10					overcast	Rev. S. J. Perry.
Strathfield Turgiss					60.2	15.7	85	sw.			1.8		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.85	758.2	29.92	760.0	62	16.7	88	w.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.77	756.1	29.80	756.9	53.6	12.0	80	wnw.	13	5.8			4					misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.64	752.8	30.03	762.7	66.2	19.0	41	n.	5.0	2.2		4 c	0	w.		0.04	1.0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B	30.26	768.6	30.30	769.6	39.0	3.9		calm	0	0			10			0	0	misty	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.03	762.7	44	6.7	93	ne.	13	5.8			10 n			0.320	8.1	light rain	H. J. Cundall, C. E.
Chatham, N. B*	30.08	764.0	30.14	765.5	36	2.2	92	ne.	8	3.6			10 n		ne.	0.23	5.8	light rain	G. A. Blair.
Cornwall, Ontario	29.96	761.0	30.16	766.1	24.2	— 4.3	93	e.			1	0	0			0	0	blue sky	Jas. Smith, M. A.
Dalhousie, N. B																			H. A. Johnson.
Edmonton, N. W. T *	27.36	694.9			15	— 9.4	48	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.20	767.1	30.22	767.6	36	2.2	75	ene.	25	11.2			10 s		ne.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.35	745.5	30.22	767.6	34	1.1	82	s.	10	4.5			10 s		s.	0	0	cloudy	James Stewart.
Fredericton, N. B	30.00	762.0	30.07	763.8	37.0	2.8	90	ne.	10	4.5			10 n			0.920	23.4	raining	Prof. Thos. Harrison
Grand Manan, N. B	29.88	758.9	29.93	760.2	43	6.1	93	ne.	20	8.9			10 n			2.62	66.5	heavy rain	J. Chipman Seeley
Granton, Ontario	28.98	736.1	30.10	764.5	40.0	4.4	100	calm	0	0		5 cs	0	e.		0	0	d. clouds	Jas. Grant.
Halifax, N. S*	29.77	756.1	29.90	759.4	49	9.4	96	n.	12	5.4			10 n		e.	0.340	8.6	light rain	A. Allison.
Hamilton, Ontario	29.71	754.6	30.10	764.5	43.9	6.6	84	ne.			1	1 c	0			0.03	0.8	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.84	757.9	30.19	766.8	34	1.1	82	n.	4	1.8		8 c	0			0	0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.99	761.7	30.03	762.7	46.5	8.1	87	se.			6		10 n			0	0		C. H. Rigby.
London, Ontario	29.20	741.7	30.12	765.0	41.7	5.4	91	ne.			2	0	9 ks			0	0	cloudy	E. B. Reed.
Medicine Hat, N. W. T	27.35	694.7	29.66	753.4	34	1.1	85	calm	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	28.13	714.5	30.17	766.3	23	— 5.0	96	s.	7	3.1		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.97	761.2	30.18	766.6	33	0.6	96	ne.	4	1.8		2 k	8 s	ne.	n.	0	c	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.94	760.5	30.17	766.3	29.1	— 1.6	95	ne.				0	0			0	0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	29.47	748.5	30.18	766.6	39	3.9	89	e.	0	2.7		5 k	5 ks	se.	se.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.46	748.3	30.22	767.6	38.7	3.7	70	ne.			1	4 c	0	sw.		0	0	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.58	751.3	30.32	770.1	32	0.0	88	nw.	2	0.9		0	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.40	746.7	30.11	764.8	43	6.1	100	ne.	9	4.0		10 c	0	nw.		0	0	cloudy	H. Morgan
Port Stanley, Ontario	29.44	747.8	30.09	764.3	41	5.0	92	e.	8	3.6		2 ck	5 n	sw.	sw.	0	0	cloudy	M. Payne
Qu Appelle, N. W. T	27.61	701.3	29.95	760.7	28	— 2.2	96	s.	18	8.0		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.82	757.4	30.19	766.8	34	1.1	100	calm	0	0			10 n		e.	0.06	1.5	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.74	755.4	30.22	767.6	36	2.2	89	calm	0	0		8 k	0	se.		0	0	cloudy	A. H. McIntyre.
St. Andrews, N. B	29.88	758.9	29.93	760.2	40	4.4	91	ne.	15	6.7			10 n			1.14	29.0	light rain	
St. John, N. B	29.82	757.4	29.96	761.0	41.5	5.4	96	ne.	16	7.2			10 n			0.813	20.6	raining	G. Hutchinson.
Saint John's, N. F	29.98?	761.5?	30.24?	768.1?	37	2.8	100	se.			2	0	0			0	0	clear	J. Higgins.
St. Pierre, N. F			30.08	764.0	39.2	4.0		se.			7							cloudy	The Commandant.
Saugeen, Ontario*	29.42	747.3	30.15	765.8	38	3.3	82	calm	0	0			10 ks			0	0	d. clouds	
Stratford, Ontario	28.81	731.8	30.11	764.8	41.4	5.2	88	se.	13.0	5.8			10 s			0	0	d. clouds	G. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrument. error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
S. W. Point, Anticosti	29.98	761.5	30.04	763.0	45	7.2	96	ne.	8	3.6			10 n		ne.	0.09	2.3	light rain	Miss Grace Pope.
Sydney, C. B.	29.78	756.4	30.18	766.6	40	4.4	79	n.	6	2.7		5 cs	5 ks	sw.	e.	0.01	0.3	cloudy	[illegible], C. E.
Toronto, Ontario*	29.06	738.1	30.15	765.8	41.5	5.3	93	ne.	8	3.6			10 s			0	0	overcast	Magnetic Observatory.
Woodstock, Ontario	29.75	755.6	29.82	757.4	49	9.4	100	e.	9	4.0		fg	fg			1.04	26.4	foggy	Prof. N Wolverton, M.A.
Yarmouth, N. S.*																			Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.15	765.8	30.18	766.6	65.5	18.6	94	ne.	36.7	16.4		0	7 k			0.050	1.3	drizzling	I. Garfelt.
Cape Town	29.62	752.3			83.5	28.6	40	se.				0	9 k			0	0		
Springbok Fontein	27.87	707.9			51	10.6	86									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	30.06	763.5	30.14	765.5	58.1	14.5	83	s.			2	0	0					clear	Samuel Redolez.
Iquique	30.03	762.8	30.06	763.5	60.6	15.9	81	sw.			3							cloudy	Rafael Moreno.
Niebla	29.63	752.6	29.74	755.3	51.8	11.0	95	nw.			1	0	7		nw.			drizzling	Federico Köhling.
Punta Caldera	30.02	762.4	30.10	764.6	59.9	15.5	84	sw.			2	7 c		sw.	sw.			fair	Manuel Tobar.
Punta Corona	29.69	754.0	29.87	758.8				se.			1	0	2 k		n.	0	0		Francisco Alvarado.
Valparaiso	29.93	760.2	30.02	762.4	54.9	12.7	83	se.			1	8	4					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.53	648.5																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.42	772.7	30.45	773.3	57.9	14.4	73	nne.	6.7	3.0			10			0	0	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.38	746.2	29.43	747.4	49.8	9.9	96	sw.	18	8			10					rain & fog	Oversergent Fischer.
Fanoe	29.40	746.8	29.42	747.3	54.3	12.4	88	wsw.			6		8						Overloerer Lauridsen.
Godthaab, Greenland	29.44	747.7	29.48	748.8	28.6	— 1.9	96	nw.			2		10						S. Kleinschmidt.
Jacobshavn, Greenland	29.47	748.4	29.51	749.6	21.6	— 5.8		e.			4		7						
Stykkisholm, Iceland	29.15	740.5	29.20	741.6	35.6	2.0	77	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.00	736.7	29.03	737.3	42.1	5.6	86	w.	7	3			10						Overloerer Bergh.
Westervig	29.17	740.9	29.26	743.2	52.3	11.3	71	w.			7		2						Loerer Oestermoi.
EGYPTIAN.																			
Cairo	29.73	755.1			81.0	27.2		wnw.	4.0	1.8			3 s			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.60	751.7	30.24	768.2	56.1	13.4	95	se.			1					0.091	2.3	misty	M. Labroue, Director.
Alençon, Normal School	29.51	749.5	30.06	763.5	57.2	14	95	sw.			1				ne.	0.165	4.2		M. Nicot, Director.
Avignon, Normal School	29.98	761.5	30.06	763.5	66.6	19.2	61	nw.			4					0	0	clouds	M. Giraud, Director.
Bar-sur-Seine	29.57	751.0	30.12	765.1	56.1	13.4	80	sw.			1		10		w.	0.067	1.7	covered	M. Saillard, Director.
Beauvais, Normal School	29.77	756.1	30.03	762.8	59.0	15	75	wsw.			2		10		w.	0.004	0.1	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.27	743.4	30.18	766.5	53.6	12	81	sw.			2		2		sw.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.90	759.5	30.17	766.2	57.4	14.1	98	s.			1		10			0.047	1.2	covered	M. Rayet, Director.
Bourges, Normal School	29.60	751.9	30.15	765.9	58.1	14.5	82	w.			2		nk		w.	0.047	1.2		M. Malet, Director.
Brest, Naval Observatory	29.86	758.4	30.10	764.5	59.4	15.2	89	sw.			2		9		sw.	0.059	1.5		M. de Kermarès, Dir.
Caen, Normal School	29.91	759.7	29.98	761.6	59.7	15.4	83	w.			1					0.059	1.5		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.73	755.2	30.05	763.3	56.8	13.8	91	sw.			2		8	w.	sw.	0.016	0.4	very cloudy	M. Judot, Director.
Charleville, Normal School	29.50	749.2	30.00	762.1	58.6	14.8	78	wsw.			1		10			0.138	3.5	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.81	731.8	30.15	765.8	61.9	16.6	70	ene.			1		8			0.008	0.2		M. Allnard, Director.
Cluny, Normal School	29.39	746.5	30.24	768.1	60.3	15.7	74	sw.			1			nw.		0.075	1.9		M. de Villemontée, Dir.
Commercy, Normal School	29.25	742.9	30.10	764.6	54.3	12.4	84	sw.			4		8 kn	sw.	sw.	0.228	5.8	very cloudy	Dr. Coulet, Director.
Gap, Normal School	27.56	700.0	30.06	763.5	59.9	15.5	61	se.			2		3 k		n.	0	0		M. Jarach, Director.
Gréasque, du Rhone	28.95	735.3	30.05	763.3	66.7	19.3	54	ne.			1		5		ne.	0	0		M. Kina, Director.
Grenoble, Normal School	29.39	746.5	30.16	766.0	57.9	14.4	93	e.			1		kn		n.	0.134	3.4		M. Ablard, Directoor.
Guéret, Normal School	28.58	726.0	30.15	765.8	55.8	13.2	80	sw			1		n		sw.	0.016	0.4		M. Delorme, Dir.
Lamballe, Normal School	29.77	756.1	30.04	763.1	59.9	15.5	85	e.			2		5		e.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.56	750.7	30.11	764.9	62.8	17.1	70	wsw.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	762.1	30.11	764.7	60.1	15.6	76	wsw.			2		8		w.	0	0	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.11	739.4	30.17	766.2	60.1	15.6	68	n.			1		8			0.217	5.5	misty	M. André, Director.
Mans, Normal School	29.80	756.9	30.11	764.8	57.7	14.3	85	sw.			4		8		w.	0.031	0.8	very cloudy	M. Richard, Director
Marseille, Observatory	29.80	756.9	30.06	763.6	68.0	20.0	72	sw.			1		9		nne.	0	0		M. Stephan, Director.
Montlouis	24.95	633.7	29.79	756.7	54.0	12.2	37	nw.	13.0	5.8			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.92	760.0	30.03	762.8	73.4	23	98	nnw.			2		2	sse.		0	0	slightly cl'dy	M. Gatzin, Director.
Nancy	29.30	744.1	30.07	763.8	56.1	13.4	84	ssw.			1		kn		sw.	0.110	2.8		M. Hasse, Director.
Nantes, Observatory	29.99	761.8	30.15	765.9	60.3	15.7	77	wsw.			1		8n;kn		wsw.	0.016	0.4		M. Larocque, Director.
Perpignan, Observatory	30.02	762.4	30.13	765.2	72.3	22.4	46	w.	1.8	0.8			1	nw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			44.6	7.0							1		e.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.07	738.3	30.12	765.0	65.5	18.6	60	n.			1		5	n.	n.	0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.30	642.6			44.1	6.7	100	w.			2		8		w.	0.803	20.4		M. Allnard.
Rochefort, Naval Obs'y	30.13	765.4	30.17	766.2	60.8	16.0	89	sw.			1		10		sw.	0.16	4.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.8	30.05	763.3	59.0	15	91	sw.			1		8		sw.	0.020	0.5	very cloudy	M. Brodier, Director.
Rodez, Normal School	27.97	710.5	30.09	764.3	56.7	13.7	86	se.					5 k		s.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.02	762.5	30.07	763.7	60.8	16	81	se.			1		10	se.		0.063	1.6	covered	M. Moullilot, Dir.
St Lô	29.89	759.3	30.04	762.9	56.3	13.5	94	w.			1		10		se.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.93	760.2	30.10	764.4	58.8	14.9	76	sw.			2		10		w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.49	749.1	30.22	767.6	58.8	14.9	85	se.			1		10	w.		0.068	0.2	covered	M. Baillaud, Director.
Tours	29.95	760.7	30.14	765.5	61.2	16.2	79	ssw.			1		8		sw.	0.020	0.5	very cloudy	M. de Tastes.
Versailles, Observatory	29.60	751.7	30.09	764.2	58.3	14.6	74	w.			2					0	0		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.03	762.7	30.18	766.5	61.3	16.3	83	e.	4.0	1.8			10 k		e.	0.016	0.4	covered	M. Cartier, Director.
GERMAN.																			
Ansbach	28.55	725.2	30.00	761.9	54.7	12.6	91	w.			4		10	w.		0.157	4.0		Prof. Jnedt.
Bamberg	29.12	739.6	29.96	761.0	55.0	12.8	84	w.			2		10 n		w.	0.110	2.8	raining	Prof. Dr. Hoh.
Berlin	29.63	752.6	29.77	756.3	50.7	10.4	100	s.			2		10			0.039	1.0	raining	Dr. Lensch.
Breslau	29.38	746.2	29.91	759.6	52.5	11.4	66	ssw.			2		10			0.091	2.3	foggy	Royal University Obs'y.
Carlsruhe	29.62	752.3	30.08	763.9	57.6	14.2	78	sw.			5		10	sw.		0	0		Albert Senz.
Cassel	29.17	741.0	29.89	759.1	57.7	14.3	73	sw.			4		6	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.8	29.96	761.0	57.6	14.2	83	sw.			1		10			0.291	7.4		Physical Society.
Friedrichshafen	28.69	728.7	30.10	764.4	58.6	14.8	85	w.			2		6	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.58	751.3	29.67	753.6	54.1	12.3	94	wsw.			7		10			0.083	2.1		E. Freier.
Kiel	29.55	750.6	29.57	751.0	53.8	12.1	88	wsw.			5		10			0.116	3.0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.39	746.5	29.81	757.2	53.2	11.8	97	sw.			3		10			0.157	4.0	raining	H. Leppig, Asst.
Magdeburg	29.58	751.3	29.76	756.0	57.7	14.3	85	wsw.			3		10	wsw.		0.039	1.0		Weather Observatory.
Memel	29.72	755.0	29.77	756.2	50.5	10.3	70	w.			4		10 k						Issermann.
Munich	28.21	716.6	30.08	764.0	55.9	13.3	81	sw.			3		10	sw.		0.071	1.8		Central Station.
Neufahrwasser	29.78	756.3	29.79	756.7	48.2	9.0	78	s.			2		10			0.043	1.1		A. Lothes.
Neustadt, Palatinate	29.46	748.2	29.98	761.6	57.9	14.4	80	sw.			1		10			0.059	1.5		Dicknether.
Stuttgart	29.11	739.4	30.00	761.9	60.4	15.8	67	w.			2		10			0	0		Prof. Dr. Schoder.
Wustrow	29.55	750.6	29.58	751.2	49.8	9.9	98	s.			5		10			0.532	13.5		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.48	748.9	29.86	758.5	70.5	21.4		ne.			0.5		6 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.86	758.3	29.91	759.6	83.0	28.3	60	sw.	21.0	9.4			0			0	0	blue sky	
Deesa	29.44	747.8	29.91	759.8	88.0	31.1	32	sse.	3.0	1.3			0			0	0	blue sky	
Bombay	29.85	758.2	29.89	759.1	84.0	28.9	72	nw.	11.0	4.9			0			0	0	blue sky	
Poona, Yarrowda	28.05	712.4	29.90	759.3	81.8	27.7	51	nne.	3.0	1.3			2			0	0	d. clouds	
Trichinopoly	29.59	751.6	29.87	758.8	83.6	28.7	64	w.	0.2	0.1			5			0	0	d. clouds	
Bellary	28.36	720.5	29.82	757.5	83.8	28.8	49	ne.	4.0	1.8			3			0	0	d. clouds	
Belgaum	27.35	694.7	29.88	759.1	77.3	25.2	67	nnw.	3.0	1.3			7	w.	s.	0.86	21.8	d. clouds	
Lahore	29.14	740.0	29.88	759.0	78.9	26.1	43	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.98	736.0	29.88	758.9	78.8	26.0	43	calm	0	0			0			0	0	blue sky	
Agra	29.33	744.9	29.89	759.1	85.5	29.7	27	nw.					0			0	0	blue sky	
Nagpur	28.86	733.1	29.91	759.8	77.2	25.1	45	calm	1.0	0.4			0			0	0	blue sky	
Jubbulpore	28.56	725.5	29.93	760.2	76.3	24.6	44	nne.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.53	750.0	29.90	759.6	80.2	26.8	43	calm	0	0			0			0	0	blue sky	
Allahabad	29.58	751.4	29.90	759.4	73.5	23.1	65	calm	0	0			0			0	0	blue sky	
Patna	29.70	754.3	29.88	759.1	76.9	24.9	47	ne.	1.8	0.8			0			0	0	blue sky	
Hazaribagh	27.87	707.8	29.89	759.3	74.6	23.7	40	nnw.	3.6	1.6			0			0	0	blue sky	
Cuttack	29.80	757.0	29.89	759.1	80.0	26.7	59	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.86	758.4	29.88	759.0	75.8	24.3	76	nnw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.74	755.5	29.86	758.5	78.4	25.8	77	calm	2.1	0.9			0			0	0	blue sky	
Chittagong	29.77	756.1	29.86	758.4	78.9	26.1	80	w.	0	0			2			0	0	d. clouds	
Sibsagar	29.56	750.8	29.90	759.4	77.1	25.1	82	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.47	723.2	29.91	759.7	84.4	29.1	31	wnw.	6.5	2.9			4		wnw.	0	0	d. clouds	
Zanzibar	29.94	760.5			87.3	30.7	55	se.	4.6	2.1			1			0	0	d. clouds	
ITALIAN.																			
Udine	29.67	753.6	30.08	764.0	57.6	14.2	63	calm	0	0			10			0	0		Prof. Giovanni Clodig.
Milan	29.55	750.6	30.07	763.7	57.2	14.0	57	e.	1.3	0.6			4			0	0		Prof. G.V.Schiapparelli
Padua	29.96	761.0	30.07	763.8	59.2	15.1	61	n.	1.8	0.8			10	ne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.8	30.08	763.9	58.1	14.5	65	s.	0	0			4	w.		0	0		Prof. F. F. Denza.
Genoa	29.89	759.2	30.08	764.1	64.6	18.1	59	s.	3.1	1.4			4	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.14	714.8	30.06	763.6	58.6	14.6	64	w.			2		4			0	0		Prof. D. C. Bruno.
Pesaro	30.03	762.8	30.08	764.0	60.1	15.6	53	n.	7.4	3.3			3			0	0		Prof. Luigi Guidi.
Florence	29.82	757.4	30.08	763.9	61.3	16.3	61	n.			2		2			0	0		Prof. Costantino Pittei
Leghorn	29.92	760.0	30.01	762.2	63.3	17.4	63	w.	3.1	1.4			4			0	0		Prof. P. Monte.
Rome	29.88	758.9	30.05	763.3	63.3	17.4	38	n.	0	0			3			0	0		Prof. P. Tacchini.
Lecce	29.72	754.8	29.97	761.2	61.5	16.4	48	nne.	13.6	6.1			2	ne.		0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.6	30.01	762.2	60.1	15.6	61	wnw.	3.8	1.7			7	nw.		0	0		Prof. D. Conti.
Cagliari	29.83	757.7	30.02	762.5	64.4	18.0	80	se.			2		0			0.106	2.7		Prof. A. Pacinotti.
Palermo	29.77	756.2	30.02	762.5	64.0	17.8	57	nne.	5.6	2.5			8	nnw.		0.126	3.2		Prof. G. Caccintore.
Syracuse	29.91	759.7	29.95	760.8	65.3	18.5	60	nne.	7.4	3.3			3	wnw.		0.118	3.0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.52	749.7	30.04	762.9	62.6	17.0	52	ne.	0	0			3	ne.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.26	768.6	30.29	769.5	45.3	7.4	96	nw.			4		10 n		w.	0.189	4.8	raining	H. Hattori.
Awomori	30.22	767.6	30.26	768.6	39.5	4.2	85	w.	5.3	2.4			9 ks		w.	0.093	2.4	cloudy	K. Ogawa.
Hamamatsu	30.20	767.1	30.30	769.6	50.8	10.4	56	nw.			4	0	1 s			0	0	clear	Sekigawa & Yamazaki.
Kagoshima	30.31	770.0	30.33	770.3	60.8	16.0	67	ne.			2	0	3 s			0	0	fair	G. Miyanohaza.
Kanazawa	30.31	769.9	30.42	772.7	45.0	7.2	74	se.	8.6	3.8		0	6 ks			0.015	0.4	cloudy	S. Endo.
Kioto	30.22	767.7	30.40	772.1	46.3	7.9	88	ne.	0.7	0.3		0	1 s			0	0	clear	M. Tojima.
Kochi	30.35	770.8	30.37	771.3	59.0	15.0	66	nnw.	7.5	3.3		0	4 s		n.	0	0	fair	K. Kusunose.
Miasaka	30.30	769.7	30.33	770.4	59.8	15.4	60	nne.			2	0	2 s		e.	0	0	fair	K. Masusaki.
Miyako	30.16	766.1	30.27	768.9	38.4	3.6	88	w.	2.6	1.2			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	30.16	766.0	30.37	771.4	57.1	13.9	66	ne.	4.8	2.1		0	0			0	0	clear	S. Takehayasu.
Niigata	30.31	769.9	30.35	770.9	51.8	11.0	56	nw.	13.9	6.2			10 s		w.	0.070	1.8	covered	Satoo & Tomikawa.
Nobiru	30.29	769.3	30.30	769.7	43.6	6.4	81	nw.	9.6	4.3		0	7 s			0.010	0.3	fair	Yoshino & Midzushina.
Numazu	30.28	769.1	30.32	770.0	50.7	10.4	66	ese.			2		10 s		w.	0	0	cloudy	R. Kaneda.
Osaka	30.38	771.6	30.39	772.0	48.1	8.9	83	n.	4.2	1.9		0	0			0	0	clear	H. Omura.
Sakai	30.40	772.3	30.41	772.5	51.0	10.6	94	nnw.			2		9 ks		n.	0.378	9.6	cloudy	Yamawchi&Sakamoto.
Shimonoseki	30.25	768.3	30.39	772.0	54.1	12.3	80	calm			0	0	0			0	0	clear	S. Sakaro.
Tokei Obs'y, Yeddo	30.27	768.8	30.35	770.8	48.6	9.2	68	n.	7.7	3.4		0	3ck;s			0	0	fair	The Staff.
Wakayama	30.33	770.4	30.38	771.7	51.9	11.1	67	ne.	6.4	2.9		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.04	763.0	77.8	25.4	66	wsw.	11.0	4.9		0	6ks;n;k		sse.	0	0	fair	The Staff.
MEXICAN.																			
Leon	24.34	618.2	30.08	764.0	52.9	11.6	76	n.	0.9	0.4		1 c	0			0	0	clear	Prof.M. Leal.
Mazatlan	29.63	752.6	29.89	759.2	76.5	24.7	93	nne.	0.9	0.4		1 ck	1 s		s.	0	0	clear	F.Quijano, C. E.
Sub-series.																			
Altata																			H. DiazPena.
NETHERLANDS.																			
Flushing	29.83	757.6	29.83	757.6	59.0	15.0		wsw.			7					0.012	0.3		
Groningen	29.61	752.1	29.67	753.5	53.8	12.1		w.			5					0.024	0.6		
Helder	29.69	754.0	29.69	754.0	56.5	13.6		sw.			5					0.322	8.2		
Hellevoetsluis	29.79	756.7	29.79	756.7	57.0	13.9	84	wsw.			5					0.140	3.7		
Utrecht	29.77	756.1	29.82	757.3	57.7	14.3	84	sw.			5		8			0.079	2.0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.83	757.7			81.3	27.4	80	ne.	0.5	0.2			5			0	0		Lt.J.J. Roptman, R D.N
NORWEGIAN.																			
Bergen	28.70	728.9	28.76	730.5	48.2	9.0	87	s.	22	10			10			0.724	18.4	raining	
Brono	29.02	737.0	29.06	738.0	45.0	7.2	52	sse.			6		1			0	0		
Christiania	28.99	736.3	29.13	740.0	43.2	6.2	88	sse.	11	5			10			0.047	1.2	raining	
Gjæsvær	29.50	749.3	29.52	749.9	38.1	3.4		s.			8		8						
Lodingen	29.25	742.9	29.30	744.1	46.2	7.9	52	se.			2		10			0	0		
PORTUGUESE.																			
Angra, Azores					65.3	18.5	86	w.	11.2	5.0			7			0.295	7.5		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.91	759.6	29.99	761.8	68.5	20.3	79	se.	1.8	0.8			10			0.020	0.5		Capt. D. A. de Cunha.
Lisbon, Observatory	29.73	755.1	30.06	763.6	63.3	17.4	38	ene.	8.1	3.6			1			0	0		The Staff.
Ponta Delgada, Azores	29.93	760.2	30.00	762.0	68.0	20.0	62	ssw.	13.0	5.8			3			0	0		
Saint Paul de Loando	29.70	754.4	29.90	759.5	75.2	24.0	97	wnw.	1.3	0.6			9			0	0		
San Salvador, Congo	28.05	712.4	29.87	758.6	81.1	27.3	56	s.			1		9			0	0		
Serra da Estrella	25.36	644.1	30.05	763.3	53.1	11.7	42	ese.	9.8	4.4			1			0	0		
RUSSIAN.																			
Akmolinski	29.02	737.1	30.13	765.3	38.7	3.7	85	nw.	4	2			10 n			0.100	2.7		Major K. Lasarew.
Archangel	30.11	764.7	30.13	765.2	32.4	0.2	89	se	13	6			10			0	0		Capt. Seeliwerstow
Ashurada	30.22	767.5	30.12	765.1	68.2	20.1	54	n.	11	5		0	7 k			0	0		
Astrakhan	30.14	765.6	30.07	763.8	59.5	15.3	78	e.	2	1			10 k;s			0	0		Capt. Wisganow.
Baku	30.11	764.9	30.07	763.7	66.7	19.3	79	ssw.	13	6		0	0			0	0		
Barnaul	29.52	749.8	30.04	763.0	32.7	0.4	96	sw.	9	4			10			0.343	8.7		Meteorological Obs'y
Bielosersk	29.29	743.9	29.77	756.2	33.1	0.6	94	ese.	16	7			10 n			0.503	14.3	raining	
Dorpat	29.44	747.7	29.69	754.0	38.8	3.8	90	wsw.	4	2			10 ks			0.055	1.4		Observatory.
Ekaterinburg	29.28	743.8	30.29	769.4	33.3	0.7	73	ssw.	2	1		0	1			0	0		Meteorological Obs'y.
Elissawetgrad	29.49	749.0	29.93	760.3	58.8	14.9	91	ssw.	2	1		0	4 n			0	0		
Irkutsk	28.02	727.0	30.34	770.5	32.5	0.3	79	calm			0		0			0	0		
Kasalinsk																			Observatory.
Kasan	29.86	758.5	30.14	765.0	39.0	4.2	97	ese.	2	1			10 n			0	0		
Kem	29.52	759.9	29.97	761.2	32.7	0.4	89	se.	13	6			10 k			0.126	3.2	h'vy clouds	
Kertch	30.17?	766.4?	30.20?	767.0?	64.9	18.3	78	calm	0	0		0	1 s			0	0		Lagorio & Sastyres.
Kief	29.25	743.0	29.89	759.3	47.1	8.4	86	wnw.	9	4			10 n			0.020	0.5		Observatory.
Koslov	29.41	747.1	29.92	760.0	48.0	8.9	92	ssw.	9	4			10 s			0	0		
Libau	29.68	753.8	29.70	754.4	46.8	8.2	78	wsw.	9	4			10			0.106	2.7		E. Quass.
Lugan	29.74	755.5	29.95	760.6	65.3	18.5	52	sse.	4	2			1			0	0	light clouds	Meteorological Obs'y.
Moscow	29.29	744.0	29.77	756.2	46.4	8.0	96	ssw.	5.6	2.5			10 n			0.016	0.4		Meteorological Obs'y
Nikolaiev	29.87	758.7	29.94	760.5	64.9	18.3	80	s.	13	6		2 c	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiewsk-on-the-Amoor	29.72	754.9	29.81	757.1	25.2	— 3.8	75	calm	0	0		0	6 n						Iwanow.
Pekin, China	30.33	770.4	30.47	774.0	46.0	7.8	72	calm	0	0		0	8 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.94	760.4	30.29	769.4	60.1	15.6	35	e.	1.1	0.5		0	0			0	0		
Petrozavodsk	29.56	750.8	29.76	756.0	36.0	2.2	93	ese.	34	15			10			0.551	14.0		Dr. Bergmann.
Pinsk	29.43	747.4	29.93	760.2	43.7	6.5	90	w.	9	4			9 n			0.302	9.2		
Poti	29.98	761.4	30.01	752.2	78.8	26.0	78	e.	4	2		0	0			0	0		
St. Petersburg	29.59	751.5	29.61	752.1	34.7	1.5	94	nne.	9	4			10 n			0.126	3.2		Central Physical Obs'y.
Samarkand	27.77	705.3	30.26	768.7	52.3	11.3	66	se.	13	6		0	0			0	0		
Semipalatinsk	29.50	749.3	30.18	766.5	39.4	4.1	90	sw.	9	4			9			0.020	0.5		Major Lasarew
Sevastopol	29.73	755.2	29.94	760.4	71.6	22.0	61	w.	16	7		2 cs	0			0	0		
Staroi Bykhov	29.26	743.3	29.82	757.5	45.1	7.3	89	ssw.	11	5			10 n			0.378	9.6		
Tashkend Laboratory	28.60	726.5	30.28	769.1	56.5	13.6	48	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.65	727.8	30.03	762.7	73.0	22.8	32	calm	0	0		0	0			0	0		Physical Observatory.
Vernoe	27.74	704.7	30.32	770.1	42.6	5.9	64	calm	0	0		0	2 k			0	0		
Viatka	29.60	751.9	30.26	768.6	32.7	0.4	92	ese.	4	2			10			0	0		
Warsaw	29.50	749.4	29.93	760.3	45.3	7.4	79	w.	9	4			10 kn			0.004	0.1		Astronomical Obs'y.
Yeniseisk	29.86	758.5	30.17	766.3	21.4	— 5.9	94	w.	2	1			2			0	0		M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.91	759.7	30.01	762.3	69.8	21.0	64	ssw.	2.5	1.1		0	2			0	0	clear	Antonio Molins.
Bilbao, Met. Obs'y	30.10	764.4	30.15	765.9	66.9	19.4	68	se.	4.9	2.2		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.2	30.11	764.7	61.2	16.2	55	n.	1.8	0.8		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.5	30.07	763.8	69.3	20.7	36	e.	4.5	2.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.99	761.7	30.10	764.5	70.5	21.4	49	ssw.	2.5	1.1		0	0			0	0	clear	Olayo Diaz, Director.
Oviedo	29.35	745.4	30.11	764.7	52.7	11.5	89	s.	6.0	2.7						0	0	clear	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.14	740.2	30.02	762.5	64.6	18.1	66	sw.	0.7	0.3		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.91	759.8	29.98	761.4	74.2	23.4	91	se.	0.7	0.3		cs	k	nw.		0.09	2.3	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.4	78.5	25.8	80	ne.	2.2	1.0		0	6 ks			0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.08	763.9	73.2	22.9	52	se.	12.7	5.7		0	1		e.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I.	29.87	758.8	29.97	761.1	79.2	26.2	97	se.	16.1	7.2			10 kn		se.	0.362	9.2	overcast	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.66	753.4	29.70	754.4	37.4	3.0	93	s.			2		8			0.142	3.6		
Umea	29.41	747.1	29.47	748.4	41.0	5.0	90	s.			7		10			0.402	10.2		
Hernosand	29.38	746.2	29.43	747.5	41.7	5.4	94	calm			0		10			0.500	12.7		
Stockholm	29.33	745.0	29.51	749.5	43.0	6.1	87	s.			2		10			0.260	6.6		
Wisby	29.56	750.7	29.61	752.2	45.7	7.6	83	s.			4		7			0.260	6.6		
Sub-series.																			
Upsala	29.36	745.7	29.45	747.9	41.5	5.3	94	ssw.	12.1	5.4			10			0.248	6.3		H.H. Hildebrandsesson
Swiss.																			
Geneva	28.74	730.1	30.13	765.4	65.7	18.7	61	w.			2		6			0.118	3.0	vapory	The Observatory.
Turkish.																			
Constantinople			29.95	760.8	66.2	19.0	76	n.	13	6.0			5		n.	0	0		The Observatory.
Valona			30.027	762.47	65.8	18.8		nw.			1		2			0.08	2.	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.4	82.0	27.8	54	ne.			1	6 ck		sw.		0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.07	763.8	30.15	765.8	40	4.4	73	nw.	6	2.7		6 cs	2 s	nw.	nw.	0.02	0.5	cloudy	J. O. Barnes.
Alpena, Michigan	29.49	749.0	30.16	766.1	35	1.7	69	n.	5	2.2			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.93	633.2	29.83	757.7	43.0	6.1	76	e.	2	0.9			10 k		w.	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.92	683.8	29.84	757.9	32	0.0	71	n.	13	5.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.89	733.8	30.08	764.0	52.0	11.1	97	se.	10	4.5			10 n		se.	0.01	0.3	light rain	Edward A. Beals.
Atlantic City, New Jersey	30.12	765.0	30.13	765.3	42.1	5.6	82	n.	6	2.7		5 k	4 s	nw.		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.95	760.7	30.14	765.5	56	13.3	80	e.	1	0.4			10 s		e.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.12	765.0	30.17	766.3	49	9.4	80	e.	2	0.9		8 cs	fg.	sw.		0	0	cloudy	Geo. W. Feiger.
Barnegat City, New Jersey	30.09	764.3	30.11	764.8	41.8	5.4	83	n.	12	5.4		9cs;ck	0	w.		0.02	0.5	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.53	724.6	30.15	765.8	30.5	— 0.8	88	se.	5	2.2		2 c	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	26.95	684.5	29.86	758.4	35	1.7	56	calm	0	0		3 c	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota	28.26	717.8	30.14	765.5	33	0.6	88	se.	16	7.2			10 s		se.	0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.00	762.0	30.03	762.7	43.3	6.3	74	ne.	23	10.3		2 cs	4 s		ne.	0.69	17.5	fair	J. T. Baker.
Boise City, Idaho	27.14	689.3	30.00	762.0	40	4.4	92	n.	2	0.9			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.87	758.7	30.03	762.7	38.5	3.6	89	nw.	6	2.7		0	5 s			1.10	27.9	fair	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	61.0	16.1	87	calm	0	0			10 s		n.	0	0	cloudy	John McGlone.
Buffalo, New York	29.37	746.0	30.13	765.3	43.7	6.5	91	ne.	4	1.8			10 s		w.	inap.	inap.	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.91	708.9	30.01	762.2	29.8	— 1.2	88	e.	10	4.5		8 k	0	e.		0	0	cloudy	A. Schneider.
Cairo, Illinois	29.63	752.6	30.03	762.7	47.4	8.6	94	nw.	10	4.5			10 s		nw.	0.81	20.6	cloudy	W. H. Ray.
Canby, Fort, Washington Ter	29.33	745.0	29.53	750.0	50.0	10.0	86	se.	36	16.1			10 n		se.	0.60	15.2	light rain	O. D. Stewart.
Cape Henry, Virginia	30.13	765.3	30.15	765.8	52.0	11.1	83	n.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.11	764.8	30.14	765.5	44.0	6.7	83	n.	8	3.6		2 ck	4 s		nw.	0	0	fair	Wm. Bolton.
Cape Mendocino, California	29.15	740.4	29.84	757.9	51	10.6	93	se.			2		10 ks		se.	0.28	7.1	cloudy	J. W. McLean.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	62.0	16.7	96	ne.	7	3.1			10 s		ne.	inap.	inap.	cloudy	G. W. Davis.
Charleston, S. Carolina	30.06	763.5	30.12	765.0	55.0	12.8	93	ne.	6	2.7			10 s		ne.	0	0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.13	765.3	51.0	10.6	86	e.	2	0.9			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	30.00	762.0	54.5	12.5	96	s.	7	3.1			10 n		s.	0.35	8.9	light rain	B. L. Goulding.
Cheyenne, Wyoming	23.98	609.1	30.00	762.0	26.7	— 2.9	68	w.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.21	741.9	29.92	760.0	45.5	7.5	93	ne.	19	8.5			10 n		ne.	0.59	15.0	heavy rain	Wm. Norrington.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	46	7.8	93	nw.	4	1.8		3 c	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.20	741.7	29.86	758.4	54.9	12.7	92	se.	4	1.8			10 n		se.	0.33	8.4	light rain	L. Dunne.
Cleveland, Ohio	29.26	743.2	30.00	762.0	48.6	9.2	75	e.	2	0.9			10 k		e.	0	0	cloudy	J. B. Newlin.
Columbus, Ohio	29.06	738.1	29.92	760.0	51	10.6	72	e.	12	5.4		6 ck	3 s	se.		0	0	cloudy	D. Outhbertson.
Concho, Fort, Texas	28.31	719.1	30.26	768.6	39.0	3.9	92	n.	2	0.9		8 ck	0	sw.		0	0	cloudy	C. E. King.
Custer, Fort, M. T.	26.71	678.4	30.95	760.7	26	— 3.3	76	se.	4	1.8		0	0			0	0	clear	T. Gibson.
Davenport, Iowa	29.37	746.0	30.03	762.7	36	2.2	89	n.	16	7.2			10 n		n.	0.29	7.4	light rain	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	30.09	764.3	44.5	6.9	74	ne.	3	1.3			10 s			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.00	711.2	29.80	756.9	42.8	6.0	97	calm	0	0			10 s			0.23	5.8	cloudy	D. Moore.
Deadwood, Dakota																			F. Des Willson.
Delaware Breakwater, Del.	30.13	765.3	30.15	765.8	48.5	9.2	86	n.	8	3.6		0	9 k		n.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.72	627.9	29.98	761.5	29.5	— 1.4	80	s.	3	1.3		0	0			0.03	0.8	clear	F. M. Neff.
Des Moines, Iowa	29.28	743.7	30.20	767.1	35	1.7	79	n.	7	3.1			10 s		n.	0.19	4.8	cloudy	F. W. Conrad.
Detroit, Michigan	29.32	744.7	30.03	762.7	45.0	7.2	93	e.	16	7.2			10 n			0.08	2.0	light rain	E. R. Brace.
Dodge City, Kansas	27.62	701.5	30.25	768.3	28	— 2.2	88	nw.	3	1.3		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.39	746.5	30.11	764.8	36.5	2.5	75	n.	8	3.6			10 s		n.	0.19	4.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.49	749.0	30.25	768.3	37	2.8	72	nw.	10	4.5			10 s		nw.	0	0	cloudy	N. B. Conger.
Eastport, Maine	29.88	758.9	29.94	760.5	41.5	5.3	96	n.	23	10.3			10n;fg		n.	2.46	62.5	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.46	697.5	30.25	768.3	30	— 1.1	88	n.	3	1.3		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.31	668.3	30.05	763.3	49.0	9.4	46	e.	8	3.6		0	5 s		e.	0	0	fair	J. O'Dowd.
Erie, Pennsylvania	29.34	745.2	30.07	763.8	49	9.4	77	e.	1	0.4		8 cs	0	w.		inap.	inap.	cloudy	C. A. Shaw.
Escanaba, Michigan	29.53	750.0	30.20	767.1	31.0	— 0.6	78	nw	4	1.8		0	hz.			0	0	clear	George Heatcote.
Galveston, Texas	30.07	763.8	30.11	764.8	55	12.8	74	n.	24	10.7		hz.	2 ks		n.	0.74	18.8	clear	E. O'C. MacInerney
Grand Haven, Michigan	29.35	745.5	30.02	762.5	43.0	6.1	74	ne.	16	7.2			10 s			0.02	0.5	cloudy	Wm. H. Fallon.

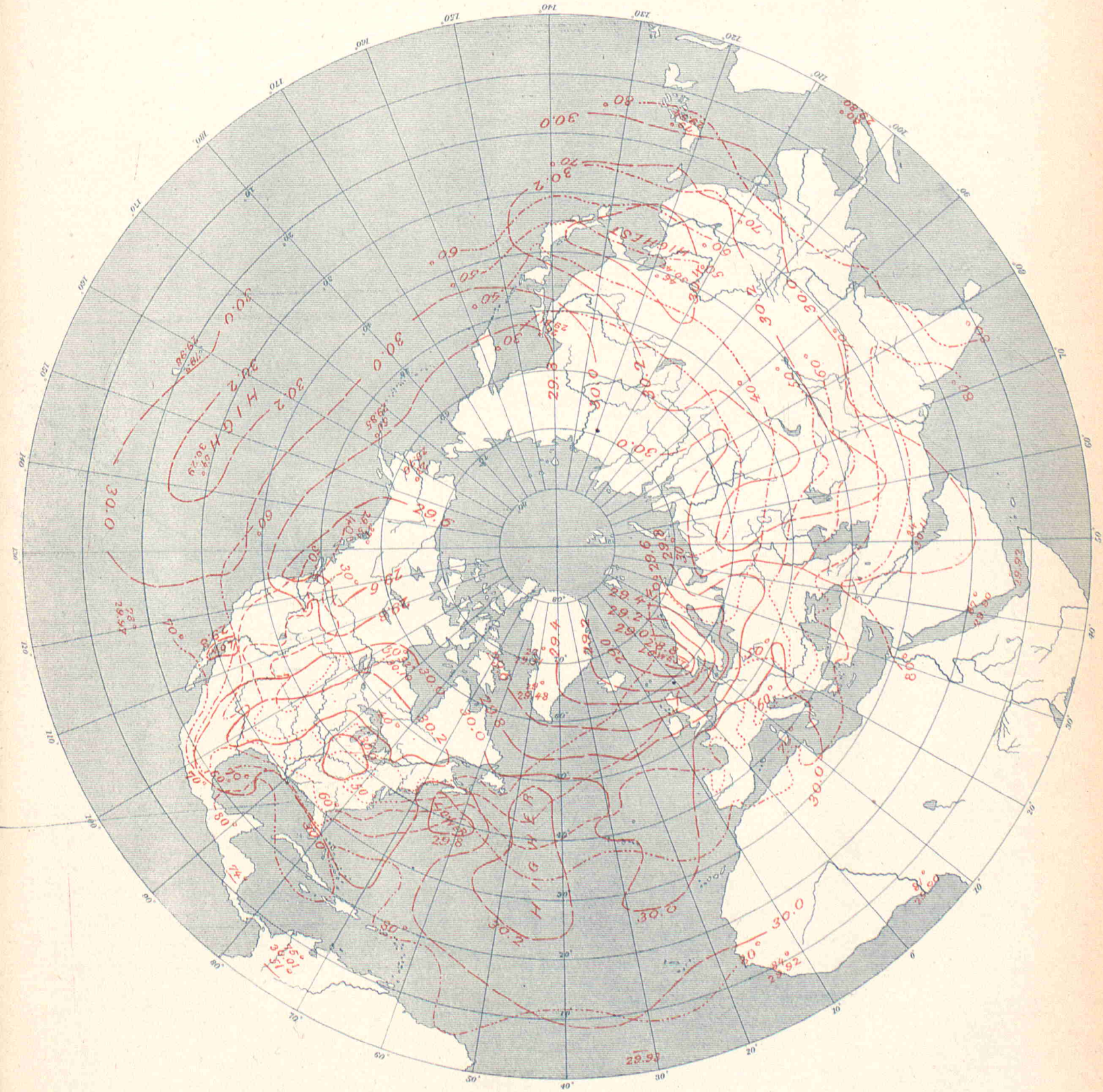
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.17	639.3	29.87	758.7	54.7	12.6	46	ne.	4	1.8			10 s			0	0	cloudy	Chas. A. Read.
Hatteras, North Carolina	30.12	765.0	30.14	765.5	55.0	12.8	86	n.	9	4.0			10 k		n.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.59	650.0	29.89	759.2	33	0.6	81	nw.	6	2.7		0	0			0	0	clear	T. H. Jones.
Huron, Dakota	28.79	731.3	30.22	767.6	35.8	2.1	87	e.	4	1.8			fg.			0.05	1.3	dense fog	S. W. Glenn.
Indianapolis, Indiana	28.99	736.3	29.79	756.7	50.0	10.0	86	sw.	1	0.4			10 s			1.10	27.9	cloudy	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.13	765.3	57.0	13.9	74	n.	36	16.1			10 s		w.	0.32	8.1	cloudy	I. A. Reed.
Jacksonville Florida	30.05	763.3	30.09	764.3	60.0	15.6	87	n.	4	1.8			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.42	747.3	30.08	764.0	36.5	2.5	85	nw.	12	5.4			10 s		nw.	0.61	15.5	cloudy	F. Z. Gosewisch.
Key West, Florida	29.95	760.7	29.97	761.2	78	25.6	88	ne.	9	4.0		0	2 k		ne.	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	50	10.0	86	n.	7	3.1			10 ks		n.	0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.95	735.3	29.99	761.7	52	11.1	94	sw.	9	4.0			10 n			0.06	1.5	light rain	J. A. Cody.
La Crosse, Wisconsin	29.37	746.0	30.16	766.1	37.5	3.1	70	nw.	8	3.6			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.32	744.7	30.22	767.6	36.5	2.5	80	nw.	7	3.1			9 s		n.	0.40	10.2	cloudy	T. S. Outram.
Lewiston, Idaho	28.92	734.6	29.77	756.1	45.0	7.2	83	ne.	1	0.4		0	9 s			0.25	6.3	cloudy	C. E. Butler.
Little Rock, Arkansas	29.81	757.2	30.13	765.3	47.0	8.3	77	nw	5	2.2			10 ks		nw.	0.58	14.7	cloudy	W. U. Simons.
Los Angeles, California	29.55	750.6	29.95	760.7	57	13.9	86	ne.	6	2.7			10 s			0	0	cloudy	T. S. Collins.
Louisville, Kentucky	29.26	743.2	29.84	757.9	57.0	13.9	86	sw.	8	3.6			10 s		sw.	0.39	9.9	cloudy	L. M. Dey.
Lynchburg, Virginia	29.43	747.5	30.12	765.0	46.0	7.8	83	calm	0	0			fg.			0	0	dense fog	Jno. Healy.
Mackinaw City, Michigan	29.53	750.0	30.20	767.1	40.5	4.7	82	e.	12	5.4		3 c	4 ks		e.	0	0	fair	D. B. Notson.
Macon, Fort, North Carolina	30.14	765.5	30.16	766.1	52.0	11.1	93	n.	14	6.3		0	9 s		se.	0.01	0.3	cloudy	William Daly.
Maginnis, Fort, Montana	25.32	643.1	29.86	758.4	34	1.1	56	nw.	9	4.0		0	0			0	0	clear	F. Burke.
Marquette, Michigan	29.48	748.8	30.22	767.6	40.0	4.4	68	n.	4	1.8		0	8 k		ne.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.08	764.0	47	8.3	77	nw.	5	2.2			10 s			0.46	11.7	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.03	762.7	44.8	7.1	78	ne.	16	7.2			10 s		ne.	inap.	inap.	cloudy	W. Line.
Mobile, Alabama	29.98	761.5	30.02	762.5	66	18.9	90	e.	3	1.3			10 s		e.	0.03	0.8	cloudy	H. U. Jones.
Montgomery, Alabama	29.80	756.9	30.04	763.0	60	15.6	84	se.	4	1.8		2 cs	8 s		w.	0	0	cloudy	Geo. E. Franklin.
Moorhead, Minnesota	29.20	741.7	30.22	767.6	36	2.2	89	se.	12	5.4			10 s		se.	0	0	cloudy	H. Bessant.
Mt. Washington, N. H.	23.73	602.7	30.07	763.8	30.3	−0.9	92	n.	10	4.5		hz.	0			0.27	6.9	clear	S. W. Beall.
Nashville, Tennessee	29.36	745.7	29.94	760.5	56.0	13.3	86	w.	9	4.0		0	8 ks		w.	0.16	4.1	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.98	761.5	30.10	764.5	37	2.8	89	n.	7	3.1		4 cs	4 k		n.	0.02	0.5	cloudy	J. H. Sherman.
New London, Connecticut	30.07	763.8	30.12	765.0	42	5.6	86	n.	2	0.9		9 k	0	n.		0.05	1.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	67.0	19.4	84	n.	16	7.2			10 ks		n	0.03	0.8	cloudy	M. Herman.
New York, New York	29.96	761.0	30.14	765.5	42.0	5.6	82	nw.	2	0.9		0	6s;fg			0	0	fair	H. J. Peurod.
Norfolk, Virginia	30.10	764.5	30.13	765.3	50.0	10.0	86	nw	3	1.3		0	5 s		n.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.20	690.9	30.16	766.1	29.6	−1.3	86	n.	5	2.2		0	0			0.01	0.3	clear	E. F. Brady.
Olympia, Washington T'y	29.61	752.1	29.65	753.1	46.0	7.8	93	calm	0	0		9 k	0	s.		0.17	4.3	cloudy	J. Dascomb.
Omaha, Nebraska	29.06	738.1	30.26	768.6	36.8	2.7	90	n.	3	1.3			10 s		n.	0.07	1.8	cloudy	A. Pollak
Oswego, New York	29.83	757.7	30.16	766.1	40.0	4.4	82	se.	1	0.4		8 ok;os	hz.	s.		0	0	cloudy	J. G. Linsley
Palestine, Texas	29.67	753.6	30.23	767.8	42.0	5.6	82	n.	6	2.7		4 cs	0			0.11	2.8	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	65.1	18.4	97	ne.	11	4.9			10 s		e.	0.91	23.1	cloudy	M. McGauran.
Philadelphia, Pa	30.05	763.3	30.15	765.8	46	7.8	93	n	2	0.9		1 c	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.74	450.6	30.02	762.5	14	−10.0	76	nw.	40	17.9		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.21	741.9	30.03	762.7	50.5	10.3	72	ne.	5	2.2		2 cs	0	ne.		0	0	clear	G. C. Schaeffer.
Port Huron, Michigan	29.34	745.2	30.03	762.7	43.0	6.1	83	e.	6	2.7		0	8 s		e.	0	0	cloudy	M. H. Perry
Portland, Maine	29.98	761.5	30.03	762.7	43	6.1	74	n.	7	3.1			10 s		n.	0.55	14.0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.60	751.8	29.67	753.6	46.2	7.9	93	se.	3	1.3		0	0			0.52	13.2	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.68	626.9	29.84	757.9	38.5	3.6	71	sw.	2	0.9		0	4 s		sw.	0	0	fair	N. D. Lane.
Provincetown, Mass	29.96	761.0	29.99	761.7	43.2	6.2	93	n.	20	8.9			10 n		n.	1.63	41.4	light rain	O. N. Kitchel.
Red Bluff, California	29.50	749.3	29.86	758.4	52	11.1	100	sw.	8	3.6			10 ks		s	0.43	10.9	cloudy	J. R. Williams.
Rio Grande City, Texas	30.01	762.2	30.25	768.3	56.4	13.6	85	n.	6	2.7			10 s		n.	0.05	1.3	cloudy	Fred. Belford.
Rochester, N. Y	29.51	749.5	30.18	766.6	39	3.9	82	se.	10	4.5		10 k	sk.			0	0	cloudy	E. W. McCann.
Roseburg, Oregon	29.18	741.2	29.74	755.4	51.3	10.7	61	se.	7	3.1		0	9 s		sw.	0.43	10.9	threatening	J. J. Naury.
Sacramento, California	29.85	758.2	29.93	760.2	53.1	11.7	87	s.	4	1.8		0	5 s			0.02	0.5	fair	J. A. Barwick
St. Louis, Missouri	29.41	747.0	30.03	762.7	38.4	3.6	100	nw.	16	7.2			10 n		nw.	0.22	5.6	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.67	753.6	29.70	754.4	22.5	−5.3	94	se.	7	3.1			10 s			0	0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.35	745.5	30.22	767.6	38.0	3.3	61	n.	2	0.9			10 s		ne.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.30	744.2	30.20	767.1	35	1.7	89	se.	3	1.3			10 s		se.	0	0	cloudy	C. B. Dilley.
Salt Lake City, Utah	25.45	646.4	29.85	758.2	44	6.7	47	se.	4	1.8		3 cs	0			0	0	clear	J. Craig.
San Diego, California	29.87	758.7	29.94	760.5	61.7	16.5	84	nw.	6	2.7		10 k	0	nw.		0	0	cloudy	F. R. Day.
Sanford, Florida	29.98	761.5	30.03	762.7	65.1	18.4	93	ne.	6	2.7		8 c	fg.	ne.		0	0	cloudy	J. B. Marbury.
Sandusky, Ohio	29.31	744.5	30.00	762.0	50	10.0	86	se.	14	6.3		0	5 s		se.	0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	30.10	764.5	30.13	765.3	44.0	6.7	83	n.	8	3.6		8 k	c	n.		inap.	inap.	cloudy	B. A. Blundon.
San Francisco, California	29.86	758.4	29.94	760.5	55.9	13.3	94	sw.	5	2.2			8 n		sw.	0.07	1.8	light rain	N. Gorom.
Savannah, Georgia	30.03	762.7	30.12	765.0	55.3	12.9	85	n	4	1.8			10 s		n	inap.	inap.	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.13	663.7	29.83	757.7	41	5.0	67	sw.	19	8.5		4 c	0	sw.		0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.91	759.7	30.15	765.8	43.3	6.3	83	nw.	3	1.3		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly.
Sitka, Alaska	29.44	747.8	29.51	749.5	37.1	2.8	53	sw.	8	3.6			10 s		sw.	0.57	14.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.73	755.1	30.21	767.3	43.1	6.2	74	calm	0	0			10 s		w.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.11	764.8	30.15	765.8	50.3	10.2	92	n	8	3.6			10 n			inap.	inap.	light rain	O. Parker.
Spokane Falls, Wash. Ter.	27.76	705.1	29.84	757.9	40	4.4	100	calm	0	0			10 n			0.16	4.1	heavy rain	John F. Hemenway.
Springfield, Illinois	29.29	714.0	29.98	761.5	40	4.4	100	nw.	12	5.4			10n;fg		nw.	0.17	4.3	light rain	T. B. Jennings.
Stockton, Fort, Texas	27.16	689.9	30.19	766.8	51.0	10.6	48	e.	2	0.9		10 cs	0			0	0	cloudy	Louis Dorman.
Tatoosh Id., Wash. Ter	29.43	747.5			46.5	8.1	96	se.	15	6.7			10 s		se.	0.21	5.3	cloudy	R. Connor.
Thomas, Camp, Arizona	27.18	690.4	29.89	759.2	43	6.1	32	calm				0	10 s			0	0	cloudy	R. O. Lord.
Toledo, Ohio	29.27	743.4	29.97	761.2	49	9.4	93	ne.	22	9.8			10 s		ne.	0.06	1.5	cloudy	A. Buell.
Unalaska, Alaska	29.83	757.7	29.85	758.2	50	10.0	86	se.	18	8.0			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.86	758.4	30.12	765.0	54.0	12.2	80	n	8	3.6		0	7 s		n.	0.03	0.8	fair	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	30.05	763.3	30.17	766.3	45.0	7.2	95	calm	0	0		4 cs	fg.			0	0	fair	T. B. Harrison.
West Las Animas, Colorado	26.12	663.4	30.05	763.3	22.5	−5.3	94	ne.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.11	764.8	30.17	766.3	51.0	10.6	86	ne.	3	1.3			10 s		ne.	0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	28.90	734.0	30.23	767.8	37.3	2.9	84	e	2	0.9			10 s			0.06	1.5	cloudy	E. H. Thompson.
Yuma, Arizona	29.63	752.6	29.78	756.4	66.1	18.9	58	nw.	3	1.3			10 s		nw.	0	0	cloudy	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1		10 n		nw.	0.02	0.5	foggy	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2			50.9	10.5	81	w.	2	1		1 cs	1s;ks			0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.95	760.7	75.0	23.9	84	n.	1	0.4		2 c	2 s			0.01	0.3	fair	Robert Johnstone.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	82	e.			3	4 c	5 k	e.		0	0	fair	Dr. C. J. Herine.
Puerto Berrio, U. S. C.	29.45	748.0	30.01	762.2	75	23.9	80	calm			0		10 ks		calm	0.31	7.9	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	89	nw.			1		10 ks		e.	0.20	5.1	cloudy	Earl Flint.
York Factory, B. A.	30.04	763.0	30.10	764.5	31.5	−0.3	95	nw.	11	4.9		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 20′, E. 26° 17′	29.92	760 0	72	22.2	76	sse.			2		10	sse.						overcast.
H. M. Dockyard, Bermuda, Atlantic	29.95	760.7	76	24.4	93	wsw.			3		6	wsw.						d. clouds.
H. M. S. Himalaya, N. 41° 08′, W. 36° 30′	30.05	763.3	62	16.7	61	nw.			4		3	nw.				2	nnw.	d. clouds.
H. M. S. Iris, Alexandria, Egypt	29.93	760.2	74	23.3	81	nne.			3		9							d. clouds.
H. M. S. Inflexible, N. 39° 38′. E. 19° 57′	29.90	759.4	69	20.6	75	calm			0		1	calm						blue sky.
H. M. S. Monarch, Smyrna, Turkey in Asia	29.92	760.0	68	20.0	79	sse.			1		7	nw.						d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.90	759.4	81	27.2	78	sw.			1		4	ssw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guiana	29.87	758.6	82.4	28.0	85	sse.			5		9		se.	2 h'r	2 h'r	3	se.	d. clouds.
U. S. Navy Yard, Portsmouth, N. H*	30.04	763.0	43	6.1	83	nne.	13	5.8			8		ne.	1.10	27.9			fair.
U. S. S. Jamestown, N. 38° 20′, W. 72° 24′	30.08	764.0	55	12.8	87	nnw.			4		10		n.			rg'h	n	cloudy.
U. S. S. Kearsarge, N. 37° 07′. E. 2° 23′	30.16	766.1	67	19.4	74	e.			3		0							clear.
U. S. S. Lancaster, Algiers, Africa	30.17	766.3	61	16.1	94	nne.			2		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R I*	29.97	761.2	45	7.2	84	nne.			4		10		n.			sm'h		cloudy.
U. S. S. Powhatan, Boston, Mass	30.05	763.3	39	3.9	91	n.			1		8							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.13	765.3	65	18.3	68	n.			0–5		2		n.					fair.
U. S. S. Saratoga, Poughkeepsie, N. Y	30.16	766.1	41	5.0	91	ne.			2–3		5?		ne.	light	light	sm'h	ne.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I	29.93	760.2	82	27.8	83	calm			0		0			0	0	sm'h		clear.
U. S. S. Vandalia, New York. N. Y †	30.14	765.5	47	8.3	85	ne.			1		8		calm					cloudy.
S. S. British Princess, N. 44° 16′ W. 48° 54′†	30.31	769.9	46	7.8		se.			2		10		se.	0	0	mod	ne.	overcast.
S. S. Lord Clive, N. 51° 09′. W. 9° 53′						w.			2		9		w.	10 h'r	10 hr	long	wnw.	cloudy
S. S. Lord Gough, N. 47° 33′, W. 50° 33′	30.13	765.3	43	6.1		w.			3		5		w.	8 h'r	8 h'r	mod	nw.	fair.
S. S. Ohio, N. 50° 05′, W. 35° 05′ †	29.99	761.7	48	8.9	100	wsw.			5		8		w.	4 h'r	4 h'r	large	wnw.	cloudy.
S. S. Nova Scotian, N. 38° 00′, W. 74° 14′			57	13.9		var.					8		nw.			sm'h		cloudy.
S. S. Prussian, Glasgow, Scotland			53	11.7		w.			6		8		w.	sh'rs	sh'rs			cloudy.
S. S. Scandinavian, Liverpool, Eng *	29.74	755.4	55	12.8		wnw.			6		3		nw.	2 h'r	2 h'r	short	s.	d. clouds.
S. S. Alvo, Kingston, Jamaica, W. I*	29.89	759.2	81	27.2		calm			0		5?		calm	0	0			cloudy ?
S. S. Allsa, Colon, U. S. C			76	24.4	100	calm			0		5		calm	3 h'r	3 h'r	sm'h		showery.
S. S. Avilla. N. 19° 04′, W. 66° 43′			80	26.7		ese.			4		7		s.	rain	rain		ese.	
S. S. Dorian, N. 42° 30′, W. 63° 44′	29.75	755.6	56	13.3		ene.			6		8		ene.	12 h'r	12 h'r	r'gh	ese.	threatening.
S. S. Furnessia Liverpool, Eng †	29.76	755.9	64	17.8	78	sw.			3		3		ssw.	1½h'r	1½h'r	sm'h		fair.
S. S. Carroll, Charlottetown, P. E. I*†	30.10	764.5			?	ne.			3		10		ne.	rain	rain			rainy.
S. S. Llandaff City, New York, N. Y †	30.17	766.3	43	6.1		nw.			4		5			0	0			fair.
S. S. Cephalonia, N. 43° 19′, W. 49° 16′	30.26	768.6	48	8.9	92	sse.			2		10		wsw.	0	0	sli't	n.	overcast.
S. S. Bothnia, N. 50° 43′, W. 19° 36′	29.87	758.7	57	13.9	87	nnw.			4		8		nnw.	6 h'r	6 h'r	long	w.	cloudy.
S. S. Pavonia, N. 40° 28′, W. 68° 22′*	30.00	762.0	51	10.6	100	nnw.			6		9		n.	0	0	mod	nnw.	cloudy.
S. S. Scythia, N. 48° 55′, W. 34° 12′	30.05	763.3	53	11.7	93	wsw.			3		6		wsw.	4 h'r	4 h'r	mod.	nw.	showery.
S. S. Samaria, N. 44° 55′ W. 43° 30′*	30.24	768.1	52	11.1		nw.			3		9		n.	0	0	long	n.	cloudy.
S. S. Canada, N. 40° 36′, W. 71° 68′ *	29.98	761.4	46.4	8		nnw.			5		10		nnw.	0	0	r'gh	nnw	covered.
S. S. France, N. 48° 32′, W. 32° 26′			50.0	10		wnw.			3		4		wnw.	0	0	r'gh	nnw.	fair.
S. S. Olinde Rodrignes, N. 11° 00′, W. 75° 00′*†	29.86	758.4	84	28.9		ene.			2		2		ne.	1 h'r	1 h'r	sm'h		clear.
S. S. Bohemia, N. 45° 00′, W. 48° 44′ *†	30.33	770.4				nne.			5–8		9		nne.	6 h'r	6 h'r	r'gh	nne.	overcast.
S. S. Gellert, N. 49° 56′, W. 26° 19′			52	11.1	60	nnw.			4		8		nw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
S. S. Silesia, N. 51° —′, E. 1° 10′	29.89	759.2	56	13.3		w.			6		9		wsw.	0	0	mod	w.	overcast.
S. S. Westphalia, New York, N. Y	30.14	765.5	40	4.4	73	nnw.			2		3		nnw.	0	0			fair.
S. S. Rhaetia, N. 50° 29′, W. 15° 20′	29.85	758.1	53	11.7	93	nw.			4		7		nnw.	4 h'r	4 h'r	cross	w.	misty.
S. S. Nessmore, St George's Channel			60	15.6	94	sw.			5		8		wsw.	16 h'r	16 h'r	h'vy	wsw.	cloudy.
S. S. Archimedes, N. 17° 45′, W. 24° 23′	30.02	762.5				ne.			5		4		ne.	0	0	mod.	ne.	hazy.
S. S. Hevelius, Liverpool, Eng†			54	12.2		sse.			3				w.	4 h'r	4 h'r			clear.
S. S. Sirius, N. 12° 41′, W. 51° 43′	29.94	760.5				n			1		8		n.	0	0	mod.	ne.	cloudy.
S. S. Rio Grande, Galveston, Texas †	30.15	765.8	58	14.4		nne.			7		2		n	2 h'r	2 h'r			fair.
S. S. Chalmette, N. 28° 00′, W. 82° 50′ †	30.01	762.2	78	25.6		se.			3		6			½ h'r	½ h'r	sm'h		fair.
S. S. Lone Star, N. 29° 25′, W. 79° 50′			76	24 4		ne.			4		4		ne.	0	0	r'gh	ne.	clear.
S. S. Alleghany, Boston, Mass			42	5.0		n.			5		5		e.	15 h'r	15 h'r			cloudy.?
S. S. Archimede, N. 36° 22′, W. 35° 45′ †	30.13	765.3	70	21.1		nne.			5		7		nne.	1 h'r	1 h'r	hv'y	nnw.	cloudy
S. S. City of Washington, N. 18° 39, W. 92° 46′ *†	29.95	760.7	86	30.0		ne.			3		8		ne.	0	0	sm'h		fine.
S. S. Cienfuegos, Guantanamo, Cuba, W I			78	25.6		n.			1		3		ne.	0	0			fine.
S. S. Grecian, Glasgow, Scotland	29.49	749.0	50	10.0	86	w.			6		8		w.	4 h'r	4 h'r			squally.
S. S. England, N. 43° 56′, W 45° 27′	30.33	770.4				e.			3		0			0	0	h'vy	ne.	clear.
S. S. Erin, N. 43° 03′, W. 53° 21′			54	12.2		se.			9		10		se.	1 h'r	1 h'r	rg'h	se.	raining.
S. S. Holland, N. 40° 31′ W. 70° 19′	30.00	762.0	48	8.9		n.			5		10		ne.	0	0	mod.	nne.	overcast.
S. S. The Queen, N. 43° 56′, W. 48° 17′			45	7.2		sse.			3		10		s.	0	0	sm'h		cloudy.
S. S. America, N. 43° 30′, W. 40° 57′*	30.19	766.8	53.0	11.7	67	n.			4		8		n.	0	0	long	ne.	cloudy.
S. S. Donau, N. 46° 23′ W. 44° 47′	30.34	770.6				w.			3		8		w.	0	0	mod.	w.	cloudy.
S. S. Elbe, N. 40° 51′, W. 68° 22′	29.95	760 6	48.2	9.0	93	nw.			7–8		10		nw.	0	0	r'gh	nw.	overcast.
S. S. Habsburg, N. 50° 30′, W. 2° 00′	29.94	760.5				sw.			6		8		sw.	0	0	long	sw.	cloudy.
S. S. Hermann, N 53° 03′, E. 3° 55′	29.65	753.1	59.0	15.0	94	w.			6		3		w.	0	0	high	w.	clear.
S. S. Orinoco, Hamilton, Bermuda, Atlantic †	30.88	784.3	77	25.0		wsw.			2		7		wsw.	4 h'r	4 h'r			fair.
S. S. Main, N. 49° 59′ W. 14° 35′	29.82	757.4	55.4	13.0		n.			2		8		n.	10 h'r	10 h'r	cross	w.	raining.
S. S. Oder, N. 42° 58′, W. 60° 08			60.8	16.0		ssw.			2		9		nne.	6 h'r	6 h'r	r'gh	ese.	hazy.
S. S. Ohio, Baltimore, Md	30.09	764.3				calm			0		10?		ne.	0	0			fair?
S. S. Strassburg, N. 50° 08′, W. 3° 45′	29.96	761.0	57.5	14.2	84	ssw.			5		9		ssw.	1 h'r	1 h'r	5	sw.	clearing.
S. S. Werra, Southampton, Eng			64.4	18.0		wsw.			5		9		wsw.	0	0	mod.	wsw.	cloudy.
S. S. Weser, N. 40° 27′, W. 61° 19′	29.72	754.9	69.8	21.0		wsw.			5		8		wsw.	16 h'r	16 h'r	mod.	sw.	cloudy.
S. S. City of Augusta, N. 36° 18′, W. 75° 14′†	30.22	767.6				ene.			4		6		ne.			short		fair.
S. S. Muriel, Sandy Hook, N. J	30.11	764.8	57	13.9		n.			3		0			0	0	long	e.	hazy.
S. S. Rhynland, N. 50° 16′. W. 25° 21′	29.90	759.4	52	11.1		n.			5		6		n.			high	nw.	rainy.
S. S. Pennland, Antwerp, Belgium			58	14.4	82	w.			4		4?		s.	0	0			cloudy?
S. S. Switzerland, N. 47° 01′ W. 48° 06′*†	30.24	768.1				nw.			1		8		nw.	0	0	light	nne.	cloudy.
S. S. Vaderland, N. 38° 52′, W. 73° —′	30.14	765.5	55	12.8		nne.			4		4		n.	0	0	high	n.	
S. S. Waesland, New York, N. Y	30.13	765 3	42	5.6		nnw.			3		3		nnw.	0	0			clear.
S. S. P. Caland, N. 50° 07′, W. 22° 30′	29.84	757.9	52.2	11.2	81	nw.			4		7		wnw.			4	wnw.	
S. S. Zaandam, Amsterdam, Holland			55.4	13.0	90	w.			3		6		e.	3 h'r	3 h'r			raining.
S. S. Caracas, LaGuayra, Venezuela *†	29.90	759.4	81	27.2	83	calm			0		2		ne.	¼ h'r	¼ h'r	light	ne.	clear.
S. S. W. A. Scholten, N. 48° 22′ W. 32° 11′	30.08	764.0	57.2	14.0	78	nnw.			3		4		nw.	2 h'r	2 h'r			
S. S. State of Alabama, N. 41° 56′. W 34° 06′*†	30.00	762.0	62	16.7		n.			5		5		n.	0	0	mod.	nne.	fair.
S. S. Thingvalla, N. 57° 27′, W. 14° 53′ †	29.57?	751.1?	45.5	7.5		wsw.			4		4		wsw.	5 h'r	5 h'r	h'vy	w.	fair.
S. S. Romano, N. 45° 14′, W. 27° 54′			56	13.3		n.			5		9?		n.	0	0	mod.	n.	clear.?
S. S. Salerno, Boston, Mass †	30.00	762.0	48	8.9		ne.			2		10		ne.	1.0	25.			
S. S. Oregon, N. 54° 34′. W. 44° 55′	29.69	754.1	38	3.3		w.			5		8		w.			long	w.	cloudy.
S. S. Quebec, N. 55° 18′, W. 60° 06′	29.45	748 0	42	5.6		w.			6		4?		w.	8 h'r	8 h'r	mod.	w.	overcast?
S. S. Texas, N. 42° 01′, W. 11° 32′ *†	30.02	762.5	66	18.9	79	sw.			2		0			0	0	long	sw.	clear
S. S. Olbers, N. 43° 19′, W. 48° 04′	30.31	769.9	49	9.4	79	e.			3		10		s.	0	0	mod.	ene.	overcast.
S. S. Daniel Steinmann, N. 43° 16′, W. 56° 20′ †	30.03	762.7	58	14.4		ese.			6		10			9 h'r	9 h'r	h'vy	ese.	heavy rain.
S. S. Plantyn, N. 50° 42′, W. 24° 47′	29.87	758.7							6		5		wsw.	0	0	h'vy	var.	fine.
S. S. Celtic, N. 51° 16′, W. 13° 35′†	29.89	759.2	60	15.6		nw.			4		8		w.	5 h'r	5 h'r	h'vy	w.	cloudy.
S. S. Republic, N. 41° 50′, W. 65° 36′ *†	29.78	756.4	53	11.7		n.			2		10		wnw.	12 h'r	12h' r	high	n;ne.	rain & fog.
S. S. Iowa, N. 50° 36′, W. 31° 09′ †	29.96	761.0	50	10.0		wnw.			4		6		wnw.	6 h'r	6 h'r	mod.	w.	fair.
S. S. Assyrian Monarch, N. 49° 49′, W. 22° 23′						n.			4		8		nne.	2 h'r	2 h'r	cross	var.	cloudy.
Bk. Arda, N. 20° 30′, W. 59° 19′						e.			2		4		e.	0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	29.80	756.9	48	8.9	92	sse.			2		4		s.	0	0			fair
Schr. Arthur Burton, Charleston, S. C. †	30.07	763.8				ne.			2		10		ne.	0	0	sm'h		threatening.
Schr. Abbie H. Gheen, Baltimore, Md.†	30.18	766.6	56	13.3		calm			0									foggy.
S. S. Antonio Lopez, Cadiz, Spain*	30.08	764.0	72	22.2	54	se.			2		1			0	0			clear.
Bg. Alcira N. 13° 28′, W. 69° 20′	29.94	760.5	84	28.9		e.			3		4		se.	0	0	cross	ne.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bgt. Achsah, N. 42° 15′, W. 66° 26′†	29.72	754.9	61	16.1		nne.			1		8		ne.	16 h'r	16 h'r	rg'h	se.	light rain.
Schr. Adda Doane, N. 10° 20′, W. 61° 35′*†	29.94	760.5				e.			2		4		e.	1 h'r	1 h'r	sm'h		fair.
Bg. Belle of the Bay, N 27° 15′, W. 88° 42′ †.	29.94	760.5				ese.			3		4		e.	3 h'r	3 h'r	irreg.	e.	fair.
Schr. Clotilde, N. 23° 39′, W. 91° 19†	30.00	762.0	83	28.3		ene.			1		0			1 h'r	1 h'r	sm'h	ne.	clear.
Schr. C. R. Flint, N. 13° 47′, W. 67° 03′†	29.98	761.5	83	28.3		se.			2		4		e.	1 h'r	1 h'r	long	ne.	fair.
S. Carondelet, N. 33° 55′, W. 53° 05′*†	30.26	768.6				se.			3		2		se.	3 h'r	3 h'r	sm'h	e.	clear.
S. S. D. J. Foley, N. 36° 19′, W. 75° 15′			58	14.4	88	n			2		8		nne.	0	0	long	ne	cloudy.
S. E. J. Spicer, New York, N. Y	30.13	765.3	44	6.7	92	n.			5		5		nne.	0	0			fair.
Bk. E. D. Bigelow, N. 26° 22′, W. 92° 15′†	29.92	760.0	82	27.8		ne.			1		2		nne.	0	0			fine.
U. S. Fish. Com. S. S. Fish Hawk, Brooklyn, N. Y†	30.10	764.5	44	6.7	92	n.			3		8		n.	0	0			cloudy.
Bk. Galeon, N. 28° 16′, W. 71° 33′†	30.04	763.0	80	26.7		s.			1		0			light	light	sm'h	nw.	blue sky.
Bk. Hattie G. McFarland, N. 16° 30′, W. 59° 34′†	29.97	761.2	82	27.8		ese.			5		4		se.	8 h'r	8 h'r	short	sse.	fair
S Hedwig, N. 35° 59′, W. 73° 46′	30.12	765.1	59.7	15.4	87	nne.			3		10		var.	2 h'r	2 h'r	4	nne.	squally.
Bk. Heinrich & Tonio, N. 43° 56′, W. 33° 40′ †	30.11	764.8	57	13.9		nnw.			3		3		nnw.	2 h'r	2 h'r		n.	fair.
Schr. Isabel Alberto, N. 31° 14′, W. 78° 10′†	30.16	766.1				nne.			2		9		ne.	sh'rs	sh'rs	high	var.	cloudy.
Schr. Jennie N. Huddell, N. 34° 20′, W. 75° 40′ †	30.15	765.8	61	16.1	88	ne.			5		5		e.	0	0	light	e.	fair.
Bg. John Wesley, N. 4°, 26′, W. 41° 53′			83	28.3		e.			3		2		e.	0	0	mod.	e.	hazy.
Bk. John H. Pearson, N. 19° 53′, W. 33° 00′						ene.			3				ene.	0	0	long	n.	cloudy
Schr. John Bracewell, Dover, N. H						n.			1		1		nw.	16 h'r	16 h'r			clear.
Bg. Josefa, N. 37° 30′, W. 69° 15′ †	30.03	762.7				nw.			3		9		nw.	4 h'r	4 h'r	r'gh	s.	cloudy.
Bkt. John Baizley, N. 38° 58′, W. 58° 20′*†	29.74	755.4				ssw.			9		10		w.	12 h'r	12 h'r	cross	var.	raining.
Bg. Lilian, N. 37° 20′, W. 74° 02′ †..	30.11	764.8	58	14.4		n.			1		10			0	0	mod	ne.	cloudy.
Bg. L. & W. Armstrong, N. 32° 15′, W. 68° 28′*†	30.00	762.0				nnw.			3		4		nw.	1 h'r	1 h'r	sm'h	ese.	
S. S. Madrid, N. 36° 20′, W. 6° 45′†	30.04	763.0	67	19.4	89	sw.			4		3		w.	0	0	mod.	sse.	fair.
S. S. Mendoza, N. 9° 09′, W. 47° 19′						e.			2				e.	0	0	sm'h	ne.	clear.
Bk. Matthias, N. 47° 05′, W. 25° 18′ *†	29.94	760.5	65.0	18.3		nnw.			6		10		n	4 h'r	4 h'r	5	var.	cloudy.
Schr. Norena, N. 18° 10′, W. 65° 43′						se.			1		7		e.	8 h'r	8 h'r	sm'h		squally.
Bk. National Eagle, N. 38° 32′, E 4° 21′						nnw.			3		0			0	0	sm'h		clear.
Schr. Rollin Sanford, Key West, Fla†	30.00	762.0				nne.			4		8		ne.	0	0			fair.
Bg. Rising Sun, N. 18° 30′, W. 66° 00′†	29.99	761.7	82	27.8														
Bk. Rosalie, N. 1° 18′, W. 31° 29′*†	29.93	760.2				sse.			4		3		se.	10 mi	nutes	light	se.	clear.
Bk. Saga, N. 54° 30′, E. 4° 15′..			58.5	14.7		var.			5–8		6			5 h'r	5 h'r	r'gh		fair.
S. Salisbury, N. 37° 00′, E. 11° 07′	30.00	761.9	69.3	20.7	87	ne.			1	5 ck	0	var.		2 h'r	2 h'r	cross	var.	fair.
Bgt. Sunlight, N. 26° 20′, W. 60° 21′ †	30.10	764.5				se.			2		2		se.	½h'r	½h'r	mod.	ne.	clear.
Bk. Samuel B. Hale, N. 11° 35′, W. 28° 15′						ene.			5				ene.	0	0	long	ne.	fine.
Bk. Sunbeam, Rotterdam, Holland †	29.84	757.9	59	15.0	88	sw.			7		10		wsw.	3 h'r	3 h'r			rainy.
S. St. Francis, N. 25° 27′, W. 40° 27′ *†	30.30	769.6	79	26.1		e.			4		2		e.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 15° 41′, W. 58° 45′ *†	29.95	760.7				e.			6				e.			r'gh	ene.	squally.
Bk. Southern Belle, N. 28° —′, W. 31° 05′ †	30.00	762.0	76	24.4		e.			3		0			0	0	mod.	e.	clear.
Bk. Tuck Sing, N. 38° 55′, W. 73° 30′*†	30.20	767.1				n.			4		10			0	0	mod.	se.	cloudy.
Schr. Walter L. Plummer, N. 22° 43′, W. 60° 23′*†	30.10	764.5				ese.			3		5		se.			sm'h	ese.	fair.
Bk. Pilgrim, N. 8° 28′, W. 41° 20′*†	30.00	762.0				ne.			4		5		ne.	3 h'r	3 h'r	mod.	var.	
Bk. Achille F, N. 4° 30′, W. 44° —′†	29.95	760.7	83	28.3		ese.			4		2			0	0	mod.	se.	fine.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	30.00	762.0	51.2	16.2	82	n.			5		3	sw.						blue sky.
H. M. S. Boadicea, S 29° 40′, E. 15° 56	29.92	760.0	66	18.9	100	nw.			3		5	nw.				2	s.	d clouds.
H. M. S. Orontes, S. 22° 57′, E. 12° 26′	29.98	761.5	67	19.4	82	w.			2		0					4	ssw.	blue sky.
H. M. S. Sylvia, Montevideo, Uruguay	30.10	764.5	61.2	16.2	75	nne.			2–4		3	calm						squally.
U. S. S. Brooklyn, S. 35° 31′, W. 1° 38′ *	30.39	771.9	58	14.4	81	ese.	9	4.0			10		calm	0	0	sm'h		cloudy.
U. S. S. Nipsic, Montevideo, Uruguay *	30.05	763.3	61	16.1	77	nne.			3		8		calm			sm'h		clear
S. S. Rosse, S. 5° 51′, W. 31° 49′ *	30.00	762.0	82	27.8		ese.			4		1		ese.	0	0			clear.
Bk. Alpheus Marshall, S. 28° 38′, W. 22° 00′*†	30.16	766.1	71	21.7	95	n.			3		9		ne.	0	0	sm'h	w.	fair.
Bk. Bore, S. 23° 01′, E. 0° 33′ *†	30.60	777.2	69	20.6		s			3		3		s.	1 h'r	1 h'r	sm'h	s.	fair.
Bk. Ceylon, S. 7° 34′, W. 33° 25′†	30.10	764.5	82	27.8	83	se.			4		1		se.	0	0	mod.	se.	fine.
S. Dynomene, S. 4° 45′, W. 30° 34′	29.96	761.0	79	26.1	91	se.			5		4			light	light	mod.	ese.	misty.
S David Crockett, S. 8° 07′, W. 32° 51′*	29.97	761.2	82	27.8	74	ese.			4		2		ese.	0	0	sm'h	se.	blue sky.
Bk. E. L. Pettingill, S. 57° 37′, W. 69° 49 *†	29.20	741.7	42	5.6		w.			7		10		w.	light	light	h'vy	wsw.	cloudy.
S Frank N. Thayer, S. 30° 48′, E. 11° 17′*†	29.89	759.2	63.5	17.5	91	sse.			1		10		sse.	2 h'r	2 h'r	h'vy	sse.	misty.
Bkt. Louise Adelaide, S. 32° 16′, W. 43° 32′†	30.16	766.1				s.			3		3		s.	1 h'r	1 h'r	long	s.	fair.
Bgt. Willie, Montevideo, Uruguay*†	30.02	762.5	60	15.6		ne.			4		0			0	0	sm'h		clear.
Bk. Childwall, S. 40° 25′, W. 14° 50′*	29.91	759 7	56	13.3		nne.			6		10		nnw.	10 h'r	10 h'r	mod.	var.	light rain.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 34° 32′, E. 138° 28′	30.24	768.1	62	16.7	88	nnw.			3		4	n.				3	se.	d. clouds.
H. M. S. Champion, Singapore, Malay Peninsula	29.80	756.9	80	26.7	83	calm			0		3							blue sky.
H. M. S. Flying Fish, N. 31° 17′, E. 121° 46′	30.40	772.1	63	17.2	72	ne.			3		10	ne.				2	ne.	squally.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.81	757.2	82.5	28.1	79	calm			0		0							blue sky.
H. M. S. Zephyr, N. 23° 30′, E. 116° 50′	30.12	765.0	73	22.8		ene.			6–7		0					6	ne.	squally.
H. P. M. S. Pamega, Macao, China	30.14	765.5	77.8	25.5	78	nne.			4		10			1 h'r	1 h'r			overcast.
U. S. Naval Hospital, Yokohama, Japan	30.36	771.1	57.5	14.2	52	n.			2		8		n.	0.02	0.5			cloudy.
U. S. S. Essex, Nagasaki, Japan	30.33	770.4	63	17.2	72	n.			2		2							clear.
U. S. S. Hartford, Panama, Panama*	29.84	757.9	79	26.1	91	n.			1		5			0	0			fair
U. S. S. Juniata, Canton, China	30.17	766.3	70	21.1	90	nnw.			3		10		calm	light	light			cloudy.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.51	774.9	52	11.1	41	nw.			2		2		nw.					fair.
U. S. S. Pensacola, Kobe, Japan			56	13.3	69	ne.			2		0			0	0			clear.
U. S. S. Ranger, N. 35° 14′, W. 121° 41′	29.98	761.5	58	14.4	94	sw.			2		8			0	0			cloudy.
U. S. S. Richmond, N. 33° 47′, E. 135° 02′	30.35	770.9	60	15.6	60	n.			5		0			1.7	43.2			clear.
S. S. Oceanic, N 26° 03′, E. 121° 04′	30.32	770.1	72	22.2	85	ne.			5		6		ne.	0	0	3	n.	fair.
S. S. City of Chester, Cape Mendocino, Cal			52	11.1	79	calm			0									overcast.
S. S. Oregon, N. 44° 06′, W. 123° 40′ †	29.54	750.3	52	11.1	85	ese.			7		8		se.			r'gh	s.	raining.
S. S. Dakota, N. 44° 23′, W. 124° 46′†	29.53	750.0	51	10.6	94	se.			7		7		se.	rain	rain		sw.	light rain.
S. S. Orizaba, N 34° 35′, W. 120° 40′ *†	29.94	760.5	58	14.4	88	nw.			8		fg.		nw.	0	0	r'gh	nw.	foggy.
S. S. State of California, N 41° 06′, W. 124° 30′ †	29.83	757.7	51	10.6	87	ssw.			4		6		sw.			large	wsw.	
S. S. Victoria, N. 46° 55′, W. 124° 50′†	29.45	748.0	53	11.7	86	sse.			9		8		ssw.			h'vy	s.	rainy.
S. S. City of Pekin, N. 38° 15′, E. 151° 30′†	30.11	764.8	60	15.6	88	n.			5		10		ne.	0	0	mod.	n.	overcast.
S. S. City of Sydney, N. 28° 31′, W. 144° 25′ *†	30.29	769.4	64	17.8	67	n.			2		2 k		nne.			mod.	n.	clear.
S. S. City of Rio de Janeiro, N. 37° 26′, W. 124° 40′†	29.97	761 2	56	13.3	94	nw.			5		5		w.	0	0	mod.	w.	fair.
S. S. Colima, Panama, Panama†	29.90	759.4	78	25.6	86	w.			2		4		w.	0	0			clear.
S S. San Blas, N. 23° 00′, W. 107° 39′†	29.85	758.2	77	25.0		calm			0		2		w.	0	0	sm'h	wnw.	clear.
S. S. San Juan, N. 16° 52′, W. 99° 45′			84	28.9		n.			2		0			0	0			clear.
S. S. Zealandia, N. 28° 03′, W. 145° 28′	30.33	770 4	75	23.9	60	ne.			5		8			0	0	r'gh	ne.	cloudy.
S. S. Alameda, Honolulu, Sandwich Islands†	29.68	761.5	72	22.2		ne.			4		7		ene.	rain	rain			cloudy.
S. Parker M. Whitmore, N. 16° 22′, W. 122° 10′ *†	29.97	761.2	78	25.6		ne.			3		3		ene.	0	0	sm'h		clear.
S. S. Strathleven, N. 2° 34′, E. 105° 11′	29.81	757.2	81.5	27.5	76	s.			1		1			0	0			blue sky.
S. Sovereign of the Seas, N. 10° 00′, W. 118° 00′			81	27.2	87	ne.			2		3		ne.	0	0	short	se.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.79	756.7	82.3	27.9	87	n.			1		6					sm'h		d. clouds.
H. M. S. Mutine, Coquimbo, Chili	30.07	763.8	56	13.3		calm			0		0							blue sky.
H. M. S. Nelson, Sydney, N.S. W	29.84	757.9	62	16.7	94	calm			0		9							overcast.
U. S. S. Iroquois, Callao, Peru	30.04	763 0	61	16.1	94	n.			1		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili *	30.06	763.5	56	13.3	81	calm			0		8		sw.					cloudy.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	61	16.1	88	n.			1		10		nw.			mod	w.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Wachusetts, Valparaiso, Chili*	30.06	763.5	55	12.8	93	calm			0		5		calm			mod.	s.	fair.
S. S. Australia, Sydney, N. S. W	30.07	763.8	61	16.1	94	w.			1		0			0	0			clear.
S. S. City of New York, Sydney, N. S. W †	30.03	762.7	67	19.4	64	e.			1		10		e.	0	0			cloudy.
S. E. B. Sutton, S. 26° 20′, W. 124° 45′ *†	30.14	765 5	72	22.2	95	ene.			1		10		ne.	8 h'r	8 h'r	h'vy	var.	raining.
S. Armenia, S. 54° 56′ W. 85° 20′ *	28.91	734.3	45	7.2	84	wnw.			6		2?		wnw.	½ h'r	½ h'r	r'gh	var	fair?
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9		se.			5		10		se			long	se.	overcast.
S. Storm King, S. 31° 27′, W. 119° 48 *†	30.24	768.1				sse.			5		10		var.	10 h'r	10 h'r	cross	var.	cloudy.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, Zanzibar, Zanzibar	29.92	760.0	81	27.2	78	calm			0		3	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.95	760.7	80	26.7	96	se.			4		3	sse.				2	sse.	blue sky
H. M. S. Woodlark, Bushire, Persia	30.11	764.8	83.5	28.6	64	nw.			4		0					2	nw.	misty.
Bk. Great Surgeon, S. 14° 57′, E. 103° 25′ *†	30.08	764.0	74	23.3		se.			5		3		se	0	0	mod.	se.	clear.
Bk. Mohican, S. 40° 50′, E 42° 15′	30.38	771.6	47	8.3		s.			6		10		ssw.	0	0	long	ssw.	cloudy.
S. S. Radnorshire, N. 12° 17′, E. 45° 45′*†	29.92	760.0				e.			4		0			0	0	mod.	e.	fine.
S. S. Galatia, N. 17° 45′, E. 40° 20′†	29.90	759.4	87	30.6	72	e.			4		1		n.	0	0	mod	sse.	fine.

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



UNITED STATES OF AMERICA.

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

Signal Office Lith.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 26, 1883,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.08	764.0	70.5	21.4	80	n.			3		3			0	0	pretty fair	Roziere.
Algiers			30.15	765.7	69.6	20.6	66	ne.			2		0			0	0	clear	Thève.
La Galle			30.10	764.6	73.0	22.8	82	ne.			2		2			0.315	8.0	fair	Fonfrède.
Tunis			30.10	764.6	67.3	19.6	58	n.			2		2			0	0	fair	Delord.
Saida			30.18	766.5															Pérée.
Tebessa					53.6	12.0	98	ne.			1		3			0	0	pretty fair	St. Martin.
Geriville					70.2	21.2	13	n.			2		0			0	0	clear	Forfert.
Laghouat			30.19	766.8	67.6	19.8	61	n.			2		0			0	0	clear	Abraham.
Biskra			30.14	765.5	76.6	24.8	52	w.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.80	756.9	53.0	11.7	52	w.	35	15.6			7 k			0	0	squally	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.50	749.3	29.59	751.6	57.3	14.1	80	se.	7	3.1			9			0	0	lightning	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.72	755.0	30.28	769.1	54.7	12.6	72	e.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.44	747.7	30.21	767.2	57.2	14.0	80	w.	8.1	3.6			6			0	0		Dr. Wierzbiski
Eperies	29.37	746.1	30.27	768.8	50.0	10.0	83	s.			2		10 ns			0	0		Julius Mikolik.
Gratz	29.00	736.6	30.26	768.5	55.9	13.3	80	e.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.80	731.4	30.24	768.1	56.1	13.4	64	sse.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.87	733.2	30.21	767.3	58.6	14.8	80	ne.			1		1			0	0		The Staff.
Lemberg	29.22	742.1	30.21	767.4	52.2	11.2	80	w.			3		10			0	0		Dr. T. Stanecki.
Pola	30.04	762.9	30.15	765.7	64.4	18.0	66	ene.			5		4			0	0		I. R. Hydrographic Office.
Szathmar	29.79	756.7	30.26	768.7	50.5	10.3	85	n.			2		1			0	0		Joseph Midlinszky, S. J
Szegedin	29.98	761.4	30.26	768.7	51.1	10.6	85	w.			1		6			0	0		Karl Stancel.
Trieste	30.11	764.9	30.21	767.4	64.8	18.2	47	ne.			3		0			0	0		Royal Academy.
Vienna	29.54	750.4	30.26	768.6	58.3	14.6	81	calm			0		9			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.80	756.9	29.90	759.4	48.0	8.9	60	ssw.	9	4.0			6			0.030	0.8	d. clouds	W. Boswell.
Armagh, Observatory	29.64	752.8	29.88	758.9	47.1	8.4	92	sse.	4	1.8			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.91	759.7	50.8	10.4	89	ese.	15	6.7			10					misty	John Hartnup.
Bolton, Sharples	29.40	746.7	29.93	760.2	48.2	9.0	91	se.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.56	750.8	29.96	761.0	49.6	9.8	87	se.			1		10			0.02	0.5	overcast	McLandsborough & Preston.
Cardington	29.88	758.9	29.99	761.7	57.0	13.9	87	s.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.87	758.7	30.04	763.0	58.0	14.4	77	s.			2		9					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.74	755.4	29.97	761.2	55.7	13.2	92	s.			2		10					overcast	The Staff.
Fort Napier, Natal	27.78	705.6	30.00	762.0	73.2	22.9	67	nw.			1		8					d. clouds	C. Stares, A.H.C.
Freetown, Sierra Leone	29.71	754.6	29.93	760.2	85	29.4	76	s.			1		1					raining	J. W. Smith.
Galway, Queen's College	29.77	756.1	29.81	757.2	47	8.3	92	ne.			3		9			0.10	2.5	threatening	Wm. Ryan.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	64.0	17.8	83	e.			4		5					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.69	754.1	29.90	759.4	48.2	9.0	81	s.			3		10 k					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.85	758.2	30.02	762.5	56.5	13.6	92	ssw.			2		10					drizzling	The Staff.
Guernsey	29.73	755.1	30.03	762.7	56.6	13.7	89	sse.			1		10					overcast	A. Collenette, F. M. S
Kew, Observatory	30.00	762.0	30.03	762.7	55.5	13.1	90	ssw.	10	4.5			10					drizzling	The Staff.
Leicester, Museum	29.72	754.9	29.97	761.2	54.8	12.7	95	se.			1		10					drizzlnig	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.97	761.2	68.6	20.3	94	ne.			2		5			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.95	760.7	29.99	761.7	81.2	27.3	82	e			1		2					blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.45	748.0	29.96	761.0	54.6	12.6	97	s.			4		10					raining	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.77	756.1	30.00	762.0	58.0	14.4	79	ssw.			3		10					overcast	The Staff.
Plymouth	29.90	759.4	29.98	761.5	56.3	13.5	92	sse.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.69	754.1	29.79	756.7	48	8.9	74						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	29.98	761.5	30.04	763.0	68.0	20.0	61	ne.			2		5					d. clouds	W. H. Lyne.
Sheffield	29.68	753.9	29.96	761.0	50.3	10.2	96	s.			1		10					overcast	W. F. Cooper.
Silloth Rectory	29.88	758.9	29.92	760.0	50.3	10.2	79	se.			1		10			0.165	4.2	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.96	761.0	47.6	8.7	85	n.	4	1.8			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					58.7	14.8	75	sw.			1.0		10					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.92	760.0	30.00	762.0	58	14.4	84	s.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.74	755.4	29.77	756.1	55.8	13.2	97	ssw.	28	12.5			10					raining	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.65	753.1	30.04	763.0	66.2	19.0	46	n.	3.7	1.7		4 c	0	w.		0	0	fair	Rev. Ph. Borrello.
Canadian.																			
Bathurst, N. B.	30.16	766.1	30.19	766.8	32.0	0.0		calm	0	0		3 cs	0	n.		0	0	blue sky	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.08	764.0	30.13	765.3	42	5.6	83	n.	5	2.2			10 s		calm	0.070	1.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.14	765.5	30.21	767.3	35	1.7	89	n.	2	0.9		5 ck	5 k	n.	n	0.01	0.3	fair	G. A. Blair.
Cornwall, Ontario	29.82	757.4	30.02	762.5	35.6	2.0	93	e.			1		10 s			0	0	d clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.05	763.3	30.10	764.5	31.0	— 0.6		calm			0	0	0			0	0	blue sky	H. A. Johnson.
Edmonton, N. W. T *	27.20	690.9			22	— 5.6	45	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.16	766.1	30.19	766.8	30	— 1.1	100	calm	0	0		2 c	2 ks	calm	calm	inap.	inap.	fair	J. McWilliams.
Fort Garry, Manitoba*	29.13	739.9	30.00	762.0	29	— 1.7	88	s.	15	6.7		0	0			0	0	clear	James Stewart.
Fredericton, N. B.	30.13	765.3	30.20	767.1	37.0	2.8	81	ne	5	2.2			10 s			0.600	15.2	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	30.07	763.8	30.13	765.3	44	6.7	83	e.	18	8.0			10 n		ne.	0.54	13.7	cloudy	J. Chipman Seeley
Granton, Ontario	28.88	733.5	30.01	762.2	38.0	3.3	91	calm	0	0			10 n			0.25	6.3	overcast	Jas. Grant.
Halifax, N. S*	29.99	761.7	30.12	765.0	44	6.7	93	n.	6	2.7		5 c	0			0.056	1.4	fair	A. Allison.
Hamilton, Ontario	29.56	750.8	29.95	760.7	39.7	4.3	90	ne.			1	10 cs	0	e.		0.20	5.1	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.68	753.9	30.02	762.5	37	2.8	85	n.	6	2.7			10 ks		e.	0	0	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.07	763.8	30.11	764.8	43.5	6.4	75	nw.			4	cs	0	nw.		0.34	8.6		C. H. Rigby.
London, Ontario	29.06	738.1	29.98	761.5	38.7	3.7	91	n.			1		10 n			0.550	14.0	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.25	692.1	29.57	751.1	32	0.0	92	calm	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.88	708.1	29.89	759.2	24	— 4.4	96	se.	6	2.7			fg.			0	0	dense fog	Rev. J. M. Wellwood.
Montreal, Quebec*	29.86	758.4	30.07	763.8	36	2.2	89	ne.	2	0.9			10 s			0.02	0.5	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.83	757.7	30.06	763.5	34.1	1.2	92	ne.					10 ks			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.33	745.0	30.05	763.3	32	0.0	78	n.	5	2.2		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.27	743.4	30.02	762.5	38.2	3.4	70	ne.			1		10 k			0	0	overcast	Wm. O'Connor, M.A.
Port Arthur	29.44	747.8	30.18	766.6	26	— 3.3	74	calm	0	0		2 c	0			0	0	clear	W. P. Cooke.
Port Dover, Ontario	29.25	742.9	29.95	760.7	40	4.4	100	ne.	9	4.0			10 n		ne.	0.27	6.9	threatening	G. Morgan
Port Stanley, Ontario	29.30	744.2	29.95	760.7	39	3.9	96	n.	8	3.6			10 n		ne.	0.15	3.8	light rain	M. Payne.
Qu Appelle, N. W. T	27.40	695.9	29.72	754.9	29	— 1.7	100	s.	16	7.2			fg			0	0	dense fog	Leslie Gordon.
Quebec, Quebec*	29.77	756.1	30.14	765.5	36	2.2	100	ne.	12	5.4			10 n		ne.	0.06	1.5	light rain	Capt. Asne, R. N.
Rockliffe, Ontario*	29.00	751.8	30.08	764.0	35	1.7	89	calm	0	0			10 s		sw.	0	0	cloudy	W. H. McIntyre.
St. Andrews, N. B.	30.07	763.8	30.13	765.3	40	4.4	91	ne.	2	0.9			10 n			0.67	17.0	cloudy	
St. John, N. B	30.00	762.0	30.15	765.8	41.0	5.0	83	ne.	4	1.8		5 k	5 k	ne.		inap.	inap.	overcast	G. Hutchinson.
Saint John's, N. F	29.75	755.6	30.01	762.2	38	3.3	81	ne.			1		10 ks			0	0	cloudy	J. Higgins.
St. Pierre, N. F			30.00	762.0	40.3	4.6		se.			6								The Commandant.
Saugeen, Ontario*	29.30	744.2	30.05	763.3	30	— 1.1	88	e.	4	1.8		2 k	0			0	0	clear	
Stratford, Ontario	28.68	728.5	30.00	762.0	37.4	3.0	86	calm	0	0			10 s			0	0	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	30.04	763.0	30.10	764.5	39	3.9	89	calm	0	0		10 ck	0	calm		0.36	9.1	fair	[illegible], O. E.
Toronto, Ontario*	29.61	752.1	30.00	762.0	38	3.3	92	ne.	10	4.5			10 n			0.07	1.8	light rain	Magnetic Observatory.
Woodstock, Ontario	28.92	734.6	30.01	762.2	38.1	3.4	87	n.	9	4.0			10 s			0.22	5.6	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S.*	30.01	762.2	20.07	763.8	45	7.2	96	e.	6	2.7			10 s		e.	0.19	4.8	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	29.99	761.7	30.02	762.5	66.0	18.9		ne.	23.9	10.7		0	7 k			0.020	0.5	fine	I. Garfelt.
Cape Town	29.86	758.4			71.2	21.8	41	n.				0	1 k			0	0		
Springbok Fontein	27.90	708.6			69	20.6	41									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.97	761.2	30.05	763.2	56.3	13.5	90	calm			0	0	2 k					fair	Samuel Redolez.
Iquique	29.99	761.7	30.02	762.4	59.9	15.5	74	sw.			3							foggy	Rafael Moreno.
Mlebla	29.78	756.4	29.89	759.1	49.3	9.6	79	e.			2	0	0			0.205	5.2	clear	Federico Köhling.
Punta Caldera	29.89	759.3	29.98	761.5	56.3	13.5	83	se.			1	0	6 n		se.			fair	Manuel Tobar.
Punta Corona	29.87	758.7	30.06	763.5				n.			6		10			0.425	10.8	raining	Francisco Alvarado.
Valparaiso	30.01	762.2	30.10	764.4	56.5	13.6	82	ne.			1	3	0					fair	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.43	646.0																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.38	771.6	30.40	772.2	59.5	15.3	86	ne.	3.8	1.7		10 ck	0	wsw.		0	0	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	29.99	761.7	30.04	762.9	51.8	11.0	65	nw.	18	8			5						Oversergent Fischer.
Fanoe	30.03	762.7	30.05	763.2	51.3	10.7	77	w			4		2						Overloerer Lauridsen.
Godthaab, Greenland	29.56	750.9	29.61	752.0	24.6	— 4.1	89	ene.			2		7						S. Kleinschmidt.
Jacobshavn, Greenland	29.56	750.9	29.61	752.1	16.2	— 8.8		e.			2		0						
Stykkisholm, Iceland	29.28	743.6	29.32	744.7	33.1	0.6	87	calm			0		8						A. O. Thorlacius.
Thorshavn	29.56	750.8	29.58	751.4	44.4	6.9	77	w.	25	11			4					raining	Overloerer Bergh.
Vestervig	29.89	759.2	29.98	761.5	49.5	9.7	74	wsw.			6		1						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.85	758.1			80.2	26.8		e.	2.2	1.0			0			0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.42	747.2	30.08	764.0	51.1	10.6	100	sse.			1					0	0	misty	M. Labroue, Director.
Alençon, Normal School	29.52	749.9	30.08	763.9	59.0	15	96	s.			1				n.	0.020	0.5		M. Nicot, Director.
Avignon, Normal School	30.05	763.3	30.13	765.3	66.2	19	67	nnw.			1		5			0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.54	750.2	30.09	764.2	57.9	14.4	68	se.			1	5 c			se.	0.020	0.5	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.82	757.5	30.09	764.2	60.4	15.8	62	sse.			1		8		sse.	0	0	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	29.19	741.5	30.11	764.8	48.9	9.4	97	ne.			1		10		ne.	0	0	covered	M. Goblin, Director.
Bordeaux, Observatory	29.76	755.9	30.02	762.4	64.6	18.1	72	ese.			1		0			0.012	0.3	clear	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.11	764.9	59.0	15	89	e.			1		fg		e.	0.59	15.	foggy	M. Malet, Director.
Brest, Naval Observatory	29.78	756.4	30.02	762.6	56.8	13.8	95	calm			0		10			0.071	1.8	raining	M. de Kermarée, Dir.
Caen, Normal School	29.93	760.1	30.00	762.0	60.1	15.6	79	se.			1				s.	0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.78	756.3	30.10	764.4	59.2	15.1	68	se.			1		2			0.016	0.4	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.61	752.0	30.11	764.9	57.4	14.1	71	sse.			1		10	nw.	n.	0.039	1.0	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.69	728.7	30.01	762.3	66.9	19.4	50	ne.			1	5 c;ck				0.004	0.1		M. Allnard, Director.
Cluny, Normal School	29.26	743.1	30.10	764.6	63.3	17.4	62	s.			1			s.		0	0		M. de Villemontée, Dir.
Cominercy, Normal School	29.27	743.5	30.13	765.4	55.4	13	86	e.			1	5 c		e.	e.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.58	700.6	30.07	763.8	65.3	18.5	42	sw.			1		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.00	736.6	30.10	764.5	68.2	20.1	51	s.			2		1		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.35	745.6	30.12	765.0	59.0	15	68	ese.			1		8		e.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.56	722.9	29.99	761.8	64.4	18	57	wsw.			1	c			w.	0	0		M. Delorme, Dir.
Lamballe, Normal School	29.72	755.0	30.00	762.0	60.8	16	84	ese.			1		5		ese.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.40	746.8	29.95	760.8	70.2	21.2	63	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.2	29.99	761.8	61.2	16.2	79	se.			1		8	se.	se.	0	0	¾ covered	Lt. T. Oarre, Director.
Lyon, St. Genis-Laval	29.03	737.4	30.09	764.3	57.7	14.3	76	ese.			1	2 c				0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.72	754.9	30.03	762.7	59.4	15.2	70	se.			1		5		s.	0	0	cloudy	M. Richard, Director
Marseille, Observatory	29.84	758.0	30.11	764.8	70.0	21.1	57	se.			2		3		se.	0	0		M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	56.3	13.5	31	sw.	16.8	7.5			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	29.96	761.0	30.07	763.7	63.7	17.6	92	nnw.			2		5	nw.		0	0	cloudy	M. Galzin, Director.
Nancy	29.38	746.3	30.16	766.0	59.0	15.0	61	nne.			1	c				0	0		M. Hasse, Director.
Nantes, Observatory	29.86	758.4	30.02	762.5	61.9	16.6	77	se.			1	c	k			0	0		M. Latrocque, Director.
Perpignan, Observatory	29.98	761.4	30.09	764.2	63.0	17.2	74	ne.	3.8	1.7			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.1			41.5	5.3							0			0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.02	737.1	30.09	764.2	57.2	14	100	n.			1		1	n.	s.	0	0	clear	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.21	640.2			48.7	9.3	83	se.			1		2			0.008	0.2		M. Allnard.
Rochefort, Naval Obs'y	29.92	760.0	29.95	760.8	63.0	17.2	81	se.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.84	757.8	30.05	763.2	59.9	15.5	89	s.			4		8			0	0	very cloudy	M. Broder, Director.
Rodez, Normal School	27.89	708.5	30.03	762.8	58.5	14.7	70	nw.			1		1		s.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.04	762.9	30.08	764.1	60.8	16	79	nne.			1		8	nne.		0	0	very cloudy	M. Mouillot, Dir.
St Lô	29.89	759.2	30.03	762.8	58.3	14.6	76	se.			1		10		w.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	29.93	760.2	30.10	764.4	58.6	14.8	62	sse.			1		9	ssw.	se.	0	0	covered	M. Renou, Director.
Toulouse, Observatory	29.32	744.8	30.05	763.2	64.8	18.2	74	sse.			6		2	se.		0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.84	758.0	30.02	762.5	60.8	16.0	75	e.			1					0	0		M. de Tastes.
Versailles, Observatory	29.59	751.6	30.08	764.1	56.8	13.8	67	s.			1		5			0	0	fair	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.84	757.9	29.99	761.7	64.8	18.2	74	ne.	4.0	1.8		2 c;ck		nw.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.75	730.3	30.21	767.2	55.4	13.0	71	e.			2		1	e.		0.051	1.3		Prof. Jnedt.
Bamberg	29.37	746.1	30.22	767.7	53.6	12.0	70	calm			0		5 k		s.	0	0		Prof. Dr. Hoh.
Berlin	30.03	762.7	30.17	766.4	57.9	14.4	74	w.			2		8			0.059	1.5		Dr. Lensch.
Breslau	29.69	754.0	30.22	767.6	57.9	14.4	74	w.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.70	754.4	30.16	766.0	60.4	15.8	59	ne.			2		1	sw.		0	0		Albert Senz.
Cassel	29.45	748.0	30.16	766.1	60.1	15.6	71	s.			2		5	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.80	756.9	30.17	766.2	58.6	14.8	64	sw.			1		10			0	0		Physical Society.
Friedrichshafen	28.72	729.4	30.14	765.5	54.0	12.2	83	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.11	764.9	30.13	765.2	54.9	12.7	81	sw.			2		9			0.012	0.3		E. Freier.
Kiel	30.07	763.8	30.09	764.2	52.0	11.1	70	w.			2		2			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.78	756.3	30.20	767.0	58.6	14.8	75	ssw.			3		9	wnw.		0.020	0.5		H. Leppig, Asst.
Magdeburg	29.98	761.5	30.17	766.3	55.9	13.3	87	calm			0		10			0.004	0.1		Weather Observatory.
Memel	29.86	758.4	29.91	759.6	50.0	10.0	73	w.			7		4 k						Issermann.
Munich	28.35	720.1	30.22	767.7	55.9	13.3	73	e.			3		0			0.004	0.1		Central Station.
Neufahrwasser	30.02	762.5	30.04	762.9	54.0	12.2	51	w.			3		3			0	0		A. Lothes.
Neustadt, Palatinate	29.66	751.8	30.13	765.2	57.7	14.3	66	calm			0		3			0	0		Dicknether.
Stuttgart	29.22	742.3	30.11	764.9	59.0	15.0	63	e.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.05	763.3	30.08	764.0	52.0	11.1	75	sw.			3		3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.56	750.8	29.94	760.5	64.4	18.0		ne.			0.5		9			1.913	48.6	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.91	759.7	29.96	761.0	84.0	28.9	56	sw.	14.0	6.3			0			0	0	blue sky	
Deesa	29.44	747.7	29.90	759.6	89.3	31.8	27	s.	4.0	1.8			1	s.		0	0	d. clouds	
Bombay	29.86	758.5	29.90	759.4	83.3	28.5	69	nw.	13.0	5.8			2	nw.		0	0	d. clouds	
Poona, Yarrowda	28.07	713.0	29.92	760.0	80.5	26.9	45	ne.	5.0	2.2			1			0	0	d. clouds	
Trichinopoly	29.59	751.5	29.87	758.6	82.5	28.1	69	e.	0.3	0.1			10			0	0	overcast	
Bellary	28.38	720.9	29.84	758.0	83.0	28.3	47	nne.	6.0	2.7			4			0	0	d. clouds	
Belgaum	27.36	694.9	29.90	759.3	76.8	24.9	59	nne.	6.0	2.7			2	n.		0	0	d. clouds	
Lahore	29.16	740.7	29.91	759.6	78.9	26.1	51	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather	Observers.
INDIAN.—Continued.																			
Roorkee	29.02	737.1	29.93	760.2	75.8	24.3	45	calm	0	0			0			0	0	blue sky	
Agra	29.36	745.8	29.92	760.1	85.5	29.7	25	sw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.89	733.7	29.94	760.4	79.2	26.2	41	calm	1.0	0.4			0			0	0	blue sky	
Jubbulpore	28.57	725.6	29.94	760.4	76.6	24.4	44	ne.	4.0	1.8			0			0	0	blue sky	
Lucknow	29.56	750.9	29.94	760.5	81.2	27.3	40	calm	0	0			0			0	0	blue sky	
Allahabad	29.62	752.3	29.94	760.4	75.8	24.3	64	calm	0	0			0			0	0	blue sky	
Patna	29.75	755.5	29.93	760.3	77.5	25.3	59	ne.	2.0	0.9			0			0	0	blue sky	
Hazaribagh	27.91	708.9	29.94	760.5	74.1	23.4	44	nnw.	2.8	1.2			0			0	0	blue sky	
Cuttack	29.85	758.3	29.94	760.4	77.8	25.4	92	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.90	759.4	29.92	760.0	76.0	24.4	76	wnw.	1.0	0.4			0			0	0	d. clouds	
Dhubri	29.81	757.1	29.93	760.1	78.6	25.9	77	ne.	4.6	2.1			1			0	0	blue sky	
Chittagong	29.82	757.5	29.91	759.8	80.7	27.1	79	calm	0.7	0.3			0			0	0	blue sky	
Sibsagar	29.63	752.6	29.97	761.2	77.3	25.2	75	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.50	723.9	29.94	760.4	84.7	29.3	26	nw.	4.8	2.2			2		nw.	0	0	d. clouds	
Zanzibar	29.93	760.2			88.3	31.3	40	sse.	5.5	2.5			1	s		0	0		
ITALIAN.																			
Udine	29.78	756.5	30.19	766.9	63.9	17.7	51	calm	0	0			0			0	0		Prof. Giovanni Clodig.
Milan	29.70	754.4	30.22	767.5	59.0	15.0	66	se.	3.8	1.7			0			0	0		Prof. G. V. Schiapparelli
Padua	30.10	764.4	30.21	767.2	61.5	16.4	64	nne	5.6	2.5			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.30	744.4	30.21	767.3	56.1	13.4	73	nw.	1.3	0.6			3	se.		0	0		Prof. F. F. Denza.
Genoa	29.95	760.6	30.14	765.5	66.2	19.0	46	ne.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.30	718.8	30.22	767.6	51.8	11.0	86	w.			6		6			0	0		Prof. D. C. Bruno.
Pesaro	30.11	764.9	30.16	766.1	61.9	16.6	79	ne.	14.3	6.4			2			0	0		Prof. Costantino Pittei
Florence	29.85	758.3	30.11	764.8	63.5	17.5	57	ne.			2					0	0		Prof. P. Monte.
Leghorn	29.98	761.6	30.07	763.8	63.7	17.6	70	nw.	1.8	0.8			0			0	0		Prof. P. Tacchini.
Rome	29.87	758.6	30.04	763.0	65.7	18.7	42	n.	0	0			1			0	0		Prof. C. de Giorgi.
Lecce	29.72	754.8	29.97	761.2	62.6	17.0	58	nne.	17.4	7.8			3			0	0		Prof. D. Conti.
Cosenza	29.13	739.8	30.02	762.4	60.8	16.0	61	ssw.	2.5	1.1			3	sw.		0.016	0.4		Prof. A. Pacinotti.
Cagliari	29.87	758.6	30.06	763.4	65.7	18.7	77	nw.			2		0			0	0		Prof. G. Cacciatore.
Palermo	29.80	756.9	30.05	763.2	65.8	18.8	63	nw.	11.9	5.3			8	nw.		0	0		Sig. Vincenzo Giuliano
Syracuse	29.94	760.5	29.98	761.6	66.2	19.0	50	nne.	8.7	3.9			4	nne.		0	0		
Sub-series.																			
Naples, S. R	29.53	750.0	30.06	763.4	57.6	14.2	67	nne.	1.3	0.6			10	ese.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.41	772.4	30.44	773.4	46.6	8.1	96	calm			0		10 k		nw.	0.539	13.7	cloudy	H. Hattori.
Awomori	30.35	770.9	30.39	771.9	45.0	7.2	73	sw.	7.0	3.1		0	7 ks		w.	0.022	0.6	cloudy	K. Ogawa.
Hamamatsu	30.35	770.9	30.45	773.4	53.8	12.1	82	ne.			2	0	4 s		ne.	0	0	fair	Sekigawa & Yamazaki.
Kagoshima	30.42	772.5	30.43	772.8	64.0	17.8	72	ne.			2	0	1 s			0	0	clear	G. Miyanohaza.
Kanazawa	30.40	772.1	30.50	774.7	50.1	10.1	84	e.	4.8	2.1			10ks;s			0	0	cloudy	S. Endo.
Kioto	30.30	769.7	30.48	774.1	51.3	10.7	81	n.	1.5	0.6			10s;ks			0	0	cloudy	M. Tojima.
Kochi	30.44	773.2	30.46	773.7	56.1	13.4	81	n.	4.1	1.8		0	7 s		sw.	0	0	cloudy	K. Kusunose.
Miasaka	30.43	772.8	30.45	773.5	61.3	16.3	81	n.			1		10 s		e.	0	0	cloudy	K. Masusaki
Miyako	30.32	770.1	30.43	772.9	41.4	5.2	89	w.	2.7	1.2			10 s			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	30.21	767.3	30.41	772.4	59.3	15.2	74	ne.	0.6	0.3		0	2 s			0	0	clear	S. Takehayashi
Niigata	30.45	773.4	30.49	774.4	49.8	9.9	90	se	2.3	1.0		0	5s;ks		w.	0.130	3.3	½ cloudy	Satoo & Tomikawa.
Nobiru	30.44	773.1	30.45	773.5	44.6	7.0	89	nnw.	2.0	0.9		0	3 s			0.055	1.4	fair	Yoslino & Midzushina.
Numazu	30.42	772.6	30.45	773.4	53.8	12.1	71	e			4		10 s			0.020	0.5	cloudy	R. Kaneda.
Osaka	30.45	773.4	30.47	773.8	52.9	11.6	81	nne.	4.7	2.1		0	3 s		sw.	0	0	fair	H. Omura.
Sakai	30.46	773.6	30.47	773.8	49.9	9.9	92	n.			2	0	1 ks		e.	0	0	clear	Yamawchi & Sakamoto.
Shimonoseki	30.31	769.8	30.45	773.5	57.4	14.1	92	calm			0	0	1 s		nw.	0	0	clear	S. Sakano.
Tokei Obs'y, Yeddo	30.39	772.0	30.47	774.0	51.9	11.1	88	ese.	3.5	1.5			10 s		w.	0	0	covered	The Staff.
Wakayama	30.40	772.2	30.45	773.5	51.1	10.6	81	n.	5.0	2.2		0	0			0	0	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	77.3	25.2	67	w.	6.5	2.9			8h;ks;n		s;se	0	0	cloudy	The Staff.
MEXICAN.																			
Leon	24.32	617.7	30.08	764.0	50.5	10.3	84	nnw.	0.9	0.4		3 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.03	752.5	29.88	759.1	76.0	24.4	88	ne.	1.6	0.8		0	5 n		e.	0	0	fair	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.10	764.6	30.10	764.6	58.3	14.6		ssw.			4					0.008	0.2		
Groningen	30.04	763.0	30.10	764.4	52.3	11.3		sw.			1					0.020	0.5		
Helder	30.07	763.7	30.07	763.7	55.2	12.9		wsw.			1					0.012	0.3		
Hellevoetsluis	30.10	764.6	30.10	764.6	59.7	15.4	80	sw.			2					0.055	1.4		
Utrecht	30.06	763.6	30.11	764.8	58.1	14.5	84	sw.			2		8			0.012	0.3	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.87	758.8			80.2	26.8	82	n.	0	0			3			0.382	9.7		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.65	753.0	29.71	754.6	47.5	8.6	65	wsw.	18	8			7			0.701	17.8	light rain	
Brono	29.20	741.6	29.24	742.6	43.3	6.3	88	w.			6		10			0.101	4.1		
Christiania	29.46	748.2	29.60	751.9	51.8	11.0	38	wnw.	13	6			0						
Gjæsvær	29.28	743.7	30.30	744.3	33.8	1.0		sse.			7		2			0.098	2.5		
Lodingen	29.14	740.2	30.19	741.4	42.6	5.9	56	se.			2		10						
PORTUGUESE.																			
Angra, Azores					61.7	16.6	77	ne.	19.9	8.9			7			0.138	3.5		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.83	757.6	29.91	759.8	70.5	21.4	69	w.	4.9	2.2			6			0.669	17.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.61	752.1	29.94	760.4	67.3	19.6	71	ssw.	11.9	5.3			4			0	0		The Staff
Ponta Delgada, Azores	29.77	756.2	29.84	758.0	62.6	17.0	86	nne.	20.6	9.2			10			0.933	23.7		
Saint Paul de Loando	29.71	754.7	29.91	759.7	80.4	26.9	85	wnw.	1.3	0.6			8			0	0		
San Salvador, Congo	28.04	712.3	29.86	758.5	81.1	27.3	59	sw.			2		5			0	0		
Serra da Estrella	25.26	641.7	29.94	760.5	52.9	11.6	70	sse.	9.4	4.2			5			0.059	1.5		
RUSSIAN.																			
Akmolinski	29.13	739.9	30.26	768.5	34.3	1.3	49	ne.	9	4		0	4 k			0	0		Major K. Lasarew.
Archangel	29.25	742.9	29.27	743.4	32.0	0.0	89	ssw.	13	6			10			0.118	3.0		Capt. Sselivverstow
Ashurada	30.27	768.9	30.18	766.5	69.4	20.8	58	wnw.	7	3		0	1 k			0	0		
Astrakhan	30.26	768.5	30.19	766.7	62.4	16.9	58	calm	0	0		0	1 s			0	0	light clouds	Capt. Wisganow.
Baku	30.26	768.6	30.21	767.4	61.3	16.3	79	nne.	4	2		0	0			0	0		
Barnaul	29.60	751.9	30.13	765.2	30.0	— 1.1	86	w.	9	4			9			0.016	0.4		Meteorological Obs'y
Bielosersk	28.95	735.3	29.42	747.2	39.0	3.9	98	sse.	9	4			10 n;s			0.118	3.0	raining	
Dorpat	29.12	739.6	29.36	745.7	45.5	7.5	85	wsw.	13	6			10ks;n			0.197	5.0	light rain	Observatory.
Ekaterinburg	29.24	742.7	30.25	768.4	30.7	— 0.7	75	sse.	9	4			10			0.039	1.0		Meteorological Obs'y.
Elissawetgrad	29.80	756.8	30.25	768.3	58.3	14.0	52	nw.	2	1		1 cs	0			0	0		
Irkutsk	28.40	721.3	30.09	764.3	34.7	1.5	76	se.			1		6			0	0		
Kasalinsk					52.5	11.4	64	s.	9	4		0	0						Observatory.
Kasan	29.55	750.6	29.82	757.5	47.7	8.7	89	s.	9	4			10 n			0	0		
Kem	29.20	741.7	29.25	743.0	30.6	— 0.8	88	w.	4	2		0	4 ks			blank	blank		Lagorio & Sastyres.
Kertch	30.32	770.1	30.34	770.7	54.5	12.5	95	n.	4	2			10			0	0		Observatory.
Kieff	29.48	748.7	30.11	764.9	54.5	12.5	59	sw.	22	10		c;ck	6 ks			0	0		
Koslov	29.45	748.1	29.96	761.0	47.8	8.8	67	wsw.	16	7		0	5 ks			0	0		E. Quass.
Libau	29.71	754.8	29.74	755.4	50.4	10.2	70	wsw.	25	11			0			0.134	3.4		Meteorological Obs'y.
Lugan	29.93	760.2	30.13	765.3	57.0	13.9	85	w.	9	4			10			0	0		Meteorological Obs'y
Moscow	29.24	742.8	29.72	755.0	43.7	6.5	77	sw.	6.7	3.0			10 n			0.004	0.1	raining	Capt. Kurdakow.
Nikolaiev	30.20	767.1	30.27	768.9	60.8	16.0	63	calm	0	0		0	0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.		
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	29.99	761.7	30.08	763.9	28.4	— 2.0	72	wnw.	4	2	.....	0	0	.....	.....	.....	.....	.....	Iwanow.
Pekin, China	30.30	769.5	30.44	773.1	50.9	10.5	62	calm	0	0	.....	0	4 k	.....	.....	0.020	0.5	.....	Physical Observatory.
Petro-Alexandrovsk	29.87	758.8	30.23	767.8	59.5	15.3	28	calm	0	0	.....	0	3 ks	.....	.....	0	0	.....	
Petrozavodsk	29.02	737.2	29.22	742.2	34.5	1.4	94	sse.	9	4	.....	.....	10	.....	.....	0.197	5.0	.....	Dr. Bergmann.
Pinsk	29.58	751.2	30.08	763.9	53.2	11.8	86	wsw.	18	8	.....	.....	10 s	.....	.....	0	0	.....	
Poti	30.09	764.2	30.12	765.0	80.1	26.7	76	e.	4	2	.....	0	0	.....	.....	0	0	.....	
St. Petersburg	29.19	741.5	29.22	742.1	44.6	7.0	85	sw.	13	6	.....	.....	10 n	.....	.....	0.102	2.6	.....	Central Physical Obs'y.
Samarkand	27.72	704.1	30.20	767.0	55.9	13.3	49	calm	0	0	.....	0	0	.....	.....	0	0	.....	
Semipalatinsk	29.60	751.8	30.29	769.3	32.5	0.3	76	n.	4	2	.....	.....	10	.....	.....	inap.	inap.	.....	Major Lasarew
Sevastopol	29.97	761.2	30.18	766.5	65.3	18.5	75	nne.	20	9	.....	0	0	.....	.....	0	0	.....	
Staroi Bykhov	29.36	745.8	29.92	760.0	47.8	8.8	89	ssw.	13	6	.....	.....	10	.....	.....	0.043	1.1	.....	
Tashkend Laboratory	28.53	724.6	30.20	767.0	57.9	14.4	58	calm	0	0	.....	0	0	.....	.....	0	0	.....	Terch, A. M
Tiflis	28.74	730.1	30.11	764.9	74.1	23.4	36	calm	0	0	.....	0	0	.....	.....	0	0	.....	Physical Observatory.
Vernoe	27.62	701.6	30.15	765.8	49.6	9.7	46	calm	0	0	.....	0	1 k	.....	.....	0	0	.....	
Viatka	28.96	735.6	29.59	751.6	45.7	7.6	98	s.	7	3	.....	10	.....	.....	.....	0.272	6.9	.....	
Warsaw	29.69	754.1	30.11	764.9	54.5	12.3	90	sw.	16	7	.....	10 n	.....	.....	.....	0	0	heavy cl'ds..	Astronomical Obs'y.
Yeniseisk	29.75	755.7	30.06	763.4	26.8	— 2.9	92	w.	4	2	.....	10	.....	.....	.....	0.008	0.2	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.98	761.4	30.08	764.0	68.7	20.4	68	sw.	15.4	6.9	.....	0	2	.....	.....	0	0	.....	Antonio Molins.
Bilbao, Met. Obs'y	29.95	760.6	30.00	762.1	73.9	23.3	49	se.	2.0	0.9	.....	2	0	s.	.....	0	0	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.11	688.6	30.04	762.9	60.8	16.0	59	s.	3.1	1.4	.....	0	2	.....	.....	0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.09	764.2	60.4	15.8	54	s.	2.9	1.3	.....	.....	10	.....	.....	0	0	covered	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.08	763.9	68.4	20.2	67	e.	1.3	0.6	.....	3	5	se.	.....	0	0	cloudy	Olayo Diaz, Director.
Oviedo	29.17	740.9	29.93	760.2	55.4	13.0	85	s.	5.1	2.3	.....	8 k	4 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.00	736.7	29.87	758.8	67.5	19.7	58	sw.	1.8	0.8	.....	.....	5	.....	.....	0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.89	759.3	29.96	761.0	74.1	23.4	91	se.	3.1	1.4	.....	10s;ck	0	w.	.....	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.6	29.96	761.0	78.6	25.9	79	nne.	2.2	1.0	.....	.....	10 kn	.....	.....	0.551	14.0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.85	758.1	29.94	760.5	73.0	22.8	59	ese.	21.8	9.8	.....	0	4	.....	e.	0.01	0.2	.....	Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.89	759.3	29.98	761.6	79.2	26.2	88	calm	0	0	.....	1 s	3 k	se.	se.	0.094	2.4	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.30	744.2	29.34	745.2	33.4	0.8	82	ne.	.....	.....	4	.....	8	.....	.....	0	0	.....	
Umea	29.17	740.8	29.22	742.1	38.5	3.6	97	ne.	.....	.....	2	.....	10	.....	.....	0.118	3.0	.....	
Hernosand	29.12	739.6	29.17	740.9	41.7	5.4	85	ene.	.....	.....	2	.....	10	.....	.....	0.173	4.4	.....	
Stockholm	29.33	744.9	29.50	749.4	48.9	9.4	49	wnw.	.....	.....	8	.....	8	.....	.....	0.102	2.6	.....	
Wisby	29.58	751.2	29.63	752.7	50.4	10.2	62	w.	.....	.....	8	.....	0	.....	.....	0.114	2.9	.....	
Sub-series.																			
Upsala	29.35	745.4	29.43	747.6	46.4	8.0	62	w.	11.6	5.2	.....	.....	2	.....	nw.	0.004	0.1	.....	H.H.Hildebrandesson
Swiss.																			
Geneva	28.71	729.2	30.13	765.3	54.7	12.6	73	nne.	.....	.....	2	.....	2	.....	.....	0	0	clear	The Observatory.
Turkish.																			
Constantinople	.....	.....	30.09	764.3	65.5	18.6	67	ne.	19	8.5	.....	.....	5	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.04?	762.9?	64.0	17.8	.....	w.	.....	.....	1	.....	5	.....	.....	0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	30.00	762.1	81.0	27.2	56	ne.	.....	.....	2	c	6 k	.....	sw.	0	0	.....	F. Nimr, B. A., Dir
Samokov, Bulgaria	26.85	682.0	.....	.....	47	8.3	93	calm	.....	.....	0	.....	fg	.....	.....	0.47	11.9	foggy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	42	5.6	73	s.	2	0.9	.....	.....	10 n	.....	.....	0.06	1.5	light rain	J. O. Barnes.
Alpena, Michigan	29.40	746.7	30.07	763.8	43	6.1	83	nw.	3	1.3	.....	.....	10 s	.....	nw.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.82	630.4	29.72	754.9	46.0	7.8	80	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.78	680.2	29.70	754.4	40	4.4	92	sw.	18	8.0	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	B. O. Lenoir.
Atlanta, Georgia	28.90	734.0	30.09	764.3	45.0	7.2	96	nw.	6	2.7	.....	0	fg.	.....	nw.	0.11	2.8	clear	Edward A. Beals.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	54	12.2	90	se.	15	6.7	.....	.....	10 s	.....	se.	0.13	3.3	cloudy	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	57	13.9	93	calm	0	0	.....	0	6 s	.....	sw.	0.09	2.3	fair	Louis Duane.
Baltimore, Maryland	29.97	761.2	30.02	762.5	52.5	11.4	90	s	3	1.3	.....	4 k	sk.	w.	.....	0.05	1.3	fair	Geo. W. Felger.
Barnegat City, New Jersey	29.96	761.0	29.98	761.5	53.3	11.8	79	e.	19	8.5	.....	3 cs	7 n	e.	e.	0.03	0.8	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.14	714.7	29.76	755.9	34.0	1.1	82	se.	18	8.0	.....	2 c	2 s	se.	se.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	26.87	682.5	29.78	756.4	39	3.9	82	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.94	709.7	29.82	757.4	35	1.7	89	se.	14	6.3	.....	4 cs	0	se.	.....	0	0	fair	B. O. Lenoir.
Block Island, Rhode Island	30.02	762.5	30.05	763.3	48.8	9.3	83	e.	12	5.4	.....	.....	10 s	.....	ne.	0	0	cloudy	J. T. Eaker.
Boise City, Idaho	27.08	687.8	29.94	760.5	39	3.9	100	w.	2	0.9	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	B. E. Light.
Boston, Massachusetts	29.92	760.0	30.08	764.0	42.0	5.6	93	n.	6	2.7	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	30.00	762.0	56.2	13.4	86	n.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	John McGlone.
Buffalo, New York	29.17	740.9	29.93	760.2	40.5	4.7	97	n.	7	3.1	.....	.....	fg.	.....	.....	0.26	6.6	dense fog	Wm. Finn.
Buford, Fort, Dakota	27.64	702.0	29.74	755.4	32.2	0.1	88	se.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.79	756.7	30.19	766.8	41.8	5.4	84	calm	0	0	.....	0	5 s	.....	nw.	0	0	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.32	744.7	29.52	749.8	42.8	6.0	96	w.	2	0.9	.....	.....	10 n	.....	w.	0.80	20.3	light rain	O. D. Stewart.
Cape Henry, Virginia	30.01	762.2	30.03	762.7	51.0	10.6	100	s.	10	4.5	.....	.....	10 s	.....	s.	0.07	1.8	cloudy	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	53.0	11.7	93	sw.	1	0.4	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.07	738.4	29.76	755.9	48.5	9.2	89	se.	40	17.9	.....	.....	10 ks	.....	se.	0.33	8.4	cloudy	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	66.0	18.9	93	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.03	762.7	30.09	764.3	67.0	19.4	93	ne.	8	3.6	.....	.....	10 s	.....	ne.	0	0	threatening.	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.06	763.5	53.0	11.7	90	sw.	2	0.9	.....	.....	10 s	.....	w.	0.10	2.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.11	764.8	47.5	8.6	82	n.	4	1.8	.....	8 ck	1 s	n.	.....	0.10	2.5	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.68	601.5	29.70	754.4	38.8	3.8	41	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.35	745.5	30.06	763.5	43.0	6.1	83	nw.	5	2.2	.....	.....	10 s	.....	.....	1.51	38.4	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	52	11.1	86	nw.	5	2.2	.....	.....	10 s	.....	n.	0.28	7.1	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.08	764.0	47.1	8.4	86	sw.	6	2.7	.....	.....	10 s	.....	sw.	0.32	8.1	cloudy	L. Dunne.
Cleveland, Ohio	29.22	742.2	29.96	761.0	44.8	7.1	89	sw.	10	4.5	.....	.....	10 s	.....	sw.	0.33	8.4	cloudy	J. B. Newlin.
Columbus, Ohio	29.15	740.4	30.01	762.2	44.5	6.9	93	s.	6	2.7	.....	.....	10 s	.....	sw.	0.82	20.8	threatening	D. Cuthbertson.
Concho, Fort, Texas	27.99	710.9	29.94	760.5	50.0	10.0	93	s.	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	C. E. King.
Custer, Fort, M. T	26.44	671.6	29.68	753.9	35	1.7	82	se.	2	0.9	.....	10 cs	0	.....	.....	0	0	cloudy	T. Gibson.
Davenport, Iowa	29.44	747.8	30.10	764.5	43	6.1	74	ne.	1	0.4	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.08	637.0	29.93	760.2	51.4	10.8	80	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	J. Williams.
Dayton, Washington T'y	27.90	708.6	29.69	754.1	46.1	7.8	77	sw	8	3.6	.....	.....	10 n	.....	.....	0.06	1.5	light rain	D. Moore.
Deadwood, Dakota	25.00	635.0	29.68	753.9	37.5	3.1	89	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Des Willson.
Delaware Breakwater, Del	29.95	760.7	29.97	761.2	52	11.1	96	sw.	0	2.7	.....	.....	10 s	.....	s	0.25	6.3	cloudy	F. W. Mixer.
Denver, Colorado	24.37	619.0	29.63	752.6	36.5	2.5	70	s.	5	2.2	.....	0	4 s	.....	w.	0	0	fair	F. M. Neal.
Des Moines, Iowa	29.20	741.7	30.12	765.0	40	4.4	82	s.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.30	744.2	30.00	762.0	42.0	5.6	93	nw.	8	3.6	.....	.....	10 s	.....	.....	0.46	11.7	cloudy	E. R. Brace.
Dodge City, Kansas	27.18	690.4	29.81	757.2	38	3.3	82	se.	22	9.8	.....	4 cs	0	w.	.....	0	0	fair	J. H. Bryce.
Dubuque, Iowa	29.40	746.7	30.12	765.0	41.3	5.2	75	n.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.38	746.2	30.14	765.5	38	3.3	82	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	N. B. Conger.
Eastport, Maine	30.04	763.0	30.12	765.0	42.5	5.8	93	ne.	15	6.7	.....	.....	10 s	.....	ne.	0.77	19.6	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.09	688.1	29.88	758.9	42.3	5.7	88	se.	14	6.3	.....	0	6 s	.....	sw.	0.03	0.8	fair	J. C. Rickli.
El Paso, Texas	26.14	663.9	29.88	758.9	54.2	12.3	51	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.21	741.9	29.94	760.5	49	9.4	86	sw.	8	3.6	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	C. A. Shaw.
Escanaba, Michigan	29.45	748.0	30.12	765.0	32.5	0.3	85	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	George Heathcote.
Galveston, Texas	29.97	761.2	30.01	762.2	66	18.9	84	e.	16	7.2	.....	0	8 ks	.....	se.	0	0	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	29.37	746.0	30.04	763.0	37.0	2.8	85	ne.	8	3.6	.....	3 ck	0	n.	.....	0.45	11.4	clear	Wm. H. Fallon.

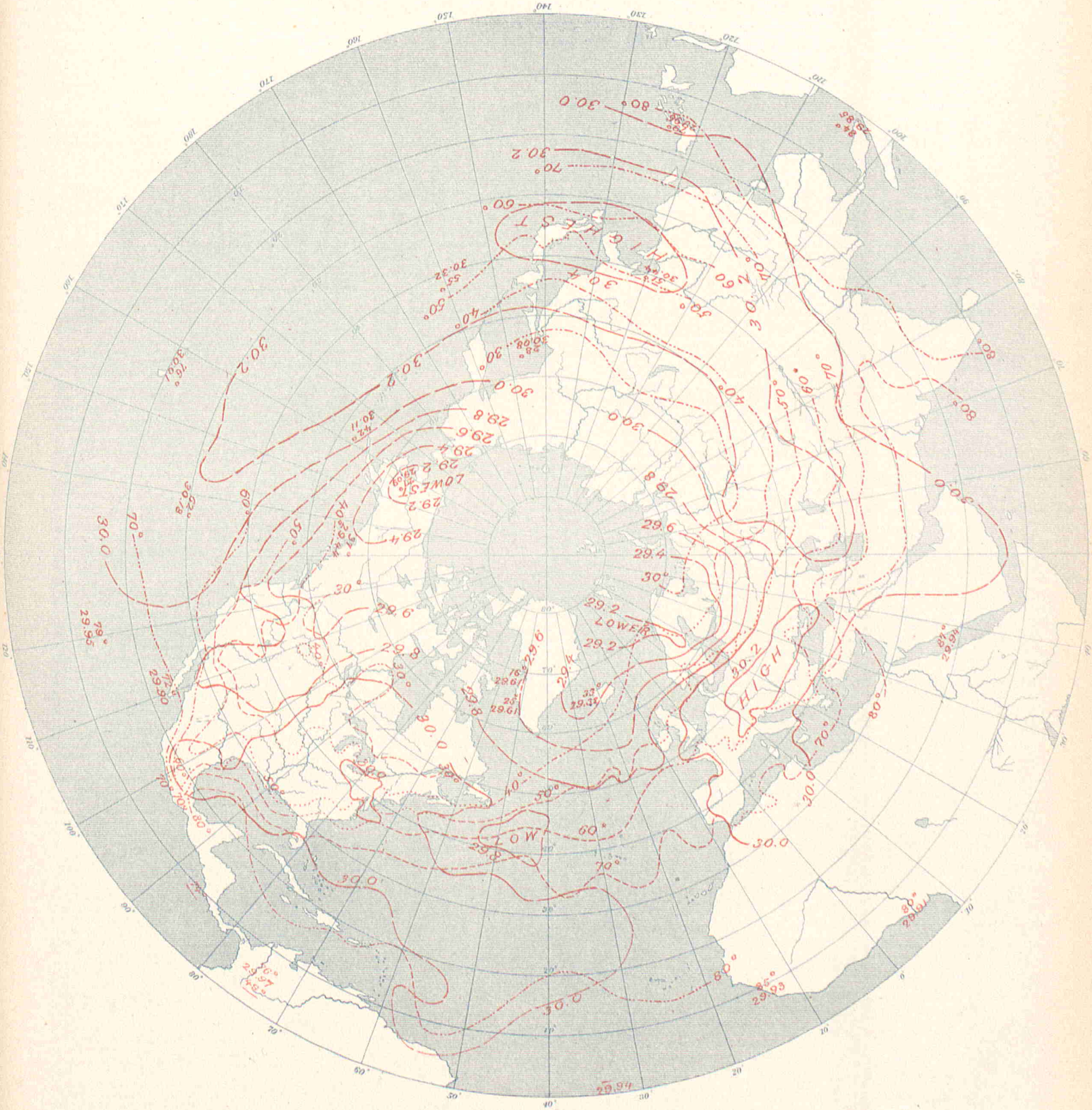
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.07	636.8	29.77	756.1	54.8	12.7	69	w.	1	0.4		0	4 ks		w.	0	0	fair	Chas. A. Read.
Hatteras, North Carolina	30.02	762.5	30.03	762.7	58.0	14.4	93	n.	10	4.5		0	9 s		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.45	646.4	29.75	755.6	38	3.3	73	n.	4	1.8		0	0			0	0	clear	I. H. Jones.
Huron, Dakota	28.51	724.4	29.94	760.5	33.8	1.0	79	se.	18	8.0		0	4 s		se.	inap.	inap.	fair	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.05	763.3	43.7	6.5	83	nw.	3	1.3			10 s		w.	0.02	0.5	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.93	760.2	29.96	761.0	62.0	16.7	84	ne.	11	4.9			10 s		se.	0.20	5.1	cloudy	I. A. Reed.
Jacksonville Florida	29.98	761.5	30.02	762.5	67.0	19.4	92	n.	4	1.8		2 cs	3 k		sw.	0	0	fair	J. W. Smith.
Keokuk, Iowa	29.46	748.3	30.13	765.3	41.0	5.0	82	nw.	2	0.9			10 s			0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.94	760.5	29.96	761.0	79	26.1	88	ne.	6	2.7		1 ck	1 k	w.	e.	0.43	10.9	clear	A. W. Browne.
Kittyhawk, North Carolina	30.02	762.5	30.04	763.0	54.0	12 2	93	nw.	6	2.7			10 ks		nw.	0.07	1.8	cloudy	Wesley Blake.
Knoxville, Tennessee	29.08	738.6	30.12	765.0	47	8.3	77	n.	4	1.8			10 s		sw.	0.16	4.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.32	744.7	30.11	764.8	40.3	4.6	73	ne.	1	0.4			10 s			0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	29.19	741.4	30.09	764.3	34.5	1.4	83	e.	1	0.4		7 k	0	w.		0	0	fair	T. S. Outram.
Lewiston, Idaho	28.84	732.5	29.69	754.1	44.0	6.7	83	se.	1	0.4		0	6 k			0.03	0.8	fair	C. E. Butler.
Little Rock, Arkansas	29.84	757.9	30.16	766.1	47.0	8.3	77	ne.	1	0.4			10 s			inap.	inap.	cloudy	W. U. Simons
Los Angeles, California	29.52	749.8	29.92	760.0	51	10.6	86	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.09	764.3	46.5	8.1	83	sw.	9	4.0			10 s		w.	inap.	inap.	cloudy	L. M Dev.
Lynchburg, Virginia	29.32	744.7	30.01	762.2	49.0	9.4	86	sw.	2	0.9			10 s			inap.	inap.	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.43	747.5	30.10	764.5	42.5	5.8	74	n.	4	1.8		0	9 s		nw.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.01	762.2	30.02	762.5	56.0	13.3	93	n.	14	6.3			10 s		nw.	0.04	1.0	cloudy	William Daly.
Maginnis, Fort, Montana	25.22	640.6	29.76	755.9	41	5.0	76	w.	4	1.8		0	8 s		w.	0	0	cloudy	F. Burke.
Marquette, Michigan	29.39	746.5	30.13	765 3	31.0	— 0.6	78	w.	7	3.1		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.17	766.3	46	7.8	76	ne.	3	1.3			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.33	745.0	30.09	764.3	40.2	4.6	80	n.	9	4.0			10 s		n.	0.01	0.3	cloudy	W. Lins.
Mobile, Alabama	30.08	764.0	30.12	765.0	47	8.3	86	n.	10	4.5		1 c	0	nw.		0	0	clear	H. U. Jones.
Montgomery, Alabama	29.89	759.2	30.12	765.0	44	6.7	93	n.	4	1.8		0	fg.			0.15	3.8	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.01	736.8	30.03	762.7	30	— 1.1	88	se.	22	9.8		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H	23.72	602.5	30.06	763.5	27.2	— 2.7	100	se.	15	6.7		0	fg.		se.	0.05	1.3	clear	S. W. Beall.
Nashville, Tennessee	29.54	750.3	30.12	765 0	45.0	7.2	93	n	4	1.8			10 ks		ne.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.93	760.2	30.05	763.3	41.2	5.1	88	ne.	9	4.0			10 s			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.08	764 0	44	6.7	96	e	5	2.2			10 s			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	51.5	10.8	83	ne.	10	4.5		5cs;c	0	nw.		0	0	fair	M. Herman.
New York, New York	29.85	758.2	30.03	762.7	45.0	7.2	93	e.	11	4.9			10 n			0.02	0.5	light rain	H. J. Peurod.
Norfolk, Virginia	30.00	762.0	30.03	762.7	52.1	11.2	93	w.	2	0.9			fg.			0.06	1.5	dense fog	Wm. Davis.
North Platte, Nebraska	26.85	682.0	29.81	757.2	34.6	1.4	87	se.	20	8.9			10 s			0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.52	749.8	29.56	750.8	46 0	7.8	93	s.	1	0.4			10 n			1.06	26.9	light rain	J. Dascomb.
Omaha, Nebraska	28.89	733.8	30.09	764.3	36.5	2.5	79	s.	6	2.7		0	0			0	0	clear	A. Pollak
Oswego, New York	29.62	752.3	29.96	761.0	44.0	6.7	80	se.	5	2.2			10 s		se.	0.01	0.3	cloudy	J. G. Linsley
Palestine, Texas	29.50	749.3	30.06	763.5	50.5	10.3	78	e.	10	4.5		10 cs	0			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.07	763.8	30.10	764.5	49.0	9.4	78	n.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.00	762.0	51.3	10.7	96	ne	4	1.8			10n;fg		ne.	0.07	1.8	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.44	443.0	29.72	754.9	11	—11.7	87	nw.	25	11.2		0	6 s		w.	0	0	fair	H. Hall.
Pittsburg, Pennsylvania	29.18	741.2	30.00	762.0	47.0	8.3	86	sw.	7	3.1			10 s		sw.	0 16	4.1	cloudy	G. C Schaeffer.
Popular River					29	— 1.7	67	s.			1		10 s			0	0	cloudy	
Port Huron, Michigan	29.28	743.7	29.97	761.2	42.0	5.6	96	ne.	7	3.1			10 s		e.	0.22	5.6	cloudy	M. H. Perry
Portland, Maine	30.03	762.7	30.08	764.0	41.0	5.0	92	n.	6	2.7			10 n		n.	0.01	0.3	light rain	W. W. Eichelberger.
Portland, Oregon	29.49	749.0	29.56	750.8	48.0	8.9	80	s.	10	4.5			10 n		s.	0.47	11.9	light rain	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.57	624.1	29.73	755.1	34.0	1.1	85	sw.	1	0.4		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.05	763.3	30.08	764.0	45.5	7.5	82	ne.	4	1.8			10 s			0.03	0.8	cloudy	C. N. Kitchel.
Red Bluff, California	29.50	749.3	29.86	758.4	47	8.3	86	s.	9	4.0		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.80	756.9	30.04	763.0	54.0	12.2	92	n.	2	0.9			10 n			0.05	1.3	light rain	Fred. Belford.
Rochester, N. Y	29.27	743.4	29.94	760.5	40	4.4	100	e.	4	1.8			10n;fg			0.13	3.3	light rain	E. W. McCann.
Roseburg, Oregon	29.09	738.9	29.65	753.1	47.4	8.6	67	se.	4	1.8			10 s		w.	0.30	7.6	threatening	J. J. Neary.
Sacramento, California	29.84	757.9	29.92	760.0	49.8	9.9	89	s.	5	2.2		0	7 s			0.01	0.3	fair	J. A. Barwick
St. Louis, Missouri	29.54	750.3	30.16	766.1	42.8	6.0	85	nw.	5	2.2			9k;s		nw.	0.01	0.3	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	29.06	738.1	29.09	738.9	27	— 2.8	94	s.	39	17.4			10 s		s.	0.04	1.0	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.22	742.2	30.09	764.3	37.5	3.1	82	calm		c		10 k	0	e.		0	0	cloudy	P. F Lyons.
St. Vincent, Minnesota	29.09	738.9	29.99	761.7	31	— 0.6	88	s.	5	2.2			10 s		s.	0	0	cloudy	C. B Dilley.
Salt Lake City, Utah	25.39	644.9	29.79	756.7	41	5.0	76	se.	2	0.9			10 n			0.58	14.7	light rain	J. Craig.
San Diego, California	29.86	758.4	29.93	760.2	59.3	15.2	75	w	10	4.5		0	1 k		w.	inap.	inap.	clear	F. R. Day.
Sanford, Florida	29.94	760.5	30.00	762.0	69.0	20.6	93	ne.	1	0.4		3 c	2s;fg			0	0	fair	J. B. Marbury.
Sandusky, Ohio	29.30	744.2	29.99	761.7	44	6.7	100	n.	16	7.2			10 n		n.	0.28	7.1	light rain	B. F. Haugh.
Sandy Hook, New Jersey	29.99	761.7	30.02	762.5	53.0	11.7	80	se.	20	8.9		10 k	c	se.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	53.5	11.9	86	calm		0		0	fg.		w.	0.07	1.8	clear	N. Gorom.
Savannah, Georgia	29.95	761 0	30.05	763.5	62.5	16.9	91	n.	4	1.8			10s;fg		e	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.02	660.9	29.72	754.9	38	3.3	72	w.	5	2.2		3 c	2 s			0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.86	758.4	30.10	764.5	45.0	7.2	93	e.	3	1.3			10 n		e.	0.17	4.3	light rain	E. N. Meekins.
Sill, Fort, Indian Territory																			W M. Matthews
Sitka, Alaska	29.38	746.2	29.44	747.8	36.6	2.6	72	e.	12	5.4		0	2 s		e.	0	0	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.63	752.6	30.11	764.8	42.0	5.6	92	e.	6	2.7			10 s		e.	0	0	cloudy	J. B. Campbell.
Smithville North Carolina	30.00	762.0	30.04	763.0	50.4	13.6	95	n.	4	1.8			10 s			0.31	7.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.62	701.5	29.70	754.4	43	6.1	83	n.	4	1.8		0	8 c		w.	0.14	3.6	cloudy	John F. Hemenway.
Springfield, Illinois	29.44	747.8	30.12	765.0	41.5	5.3	88	nw.	4	1.8		0	1 s		nw.	0.03	0.8	clear	T. B. Jennings.
Stockton, Fort, Texas	26.88	682.7	29.90	759.4	45.0	7.2	86	sw.	3	1.3		6 cs	0			0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter	29.43	747.5			44.5	6.9	96	e.	2	0.9			10 s		e.	0.18	4.6	cloudy	R. Connor.
Thomas, Camp, Arizona	27.10	688.3	29.81	757.2	53	11.7	57	w.			1	0	5 s			0	0	fair	R. C. Lord.
Toledo, Ohio	29.29	744.0	29.99	761.7	44.2	6.8	83	n.	7	3.1			10 s		n.	0.53	13.5	cloudy	A. Buell.
Unalaskha, Alaska	30.09	764.3	30.11	764.8	42	5.6	65	s	6	2.7			10 s			0	0	cloudy	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.90	759.4	30.16	766.1	45.8	7 7	78	ne.	2	0.9			10 s		w.	0	0	cloudy	James Keneally.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.90	759.4	30.02	762.5	51.0	10.6	87	sw.	3	1.3			10 k		sw.	inap.	inap.	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.08	652.3	29.62	752.3	27	— 2.8	82	w.	3	1.3		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.01	762.2	30.07	763.8	58.0	14.4	80	n.	5	2.2		2 ck;k	3 s			0.01	0.3	fair	Samuel A. Haney.
Yankton, Dakota	28.70	729 0	30.03	762.7	31.7	— 0.2	90	se.	9	4.0		0	1 s			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.66	753 4	29.81	757.2	57.0	13.9	61	nw.	8	3.6		0	0			0	0	clear	W. S. Delano.
Sub-series.																			
Bluefields, Nicaragua					77	25.0		nw.			1	1 c	2 k		ne.	0	0	clear	W. H. Jackson.
Bogota, U. S. C.	22.02	559.2			49.1	9.5	75	calm	0	0		0	4 s			0.020	0.5		Joaquin Gomez.
Kingston, Jamaica, W. I.			29.91	759.7	74.5	23.6	91	calm	0	c		8 cs	2 s			0.13	3.3	cloudy	Robert Johnstone
Paramaribo, S. A.	30.02	762.5	30.02	762.5	81	27.2	78	e.			3	4 c	2 s			0	0		Dr. C. J. Herman.
Puerto Berrio, U. S. C.	29.41	747.0	29.97	761.2	76	24.4	89	s.			1		10 ks		s.	0.23	5.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	89	ne.			1	1 cs	1 ck	ne.	ne.	0.20	5.1	clear	Earl Flint.
York Factory, B. A.	29.92	760.0	29.98	761.5	32.5	0.3	94	w.	8	3.6		2 c	0	w.		0	0		Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 20′, E. 26° 17′	29.89	759.2	74	23.3	63	sse.			2		10	sse.						overcast.
H. M. Dockyard, Bermuda, Atlantic	30.04	763.0	73	22.8	81	wnw.			1		4	wnw.						d. clouds.
H. M. S. Flamingo, N. 43° 00′, W. 63° 57′	30.02	762.5	52	11.1	93	nne.			4		5	nne.				5	ene.	d. clouds.
H. M. S. Himalaya, N. 39° 25′, W 42° 38′	29.71	754.6	73	22.8	90	sw.			5–6		8	sw.				4	sw.	showery.
H. M. S. Iris, Alexandria, Egypt	29.98	761.5	76	24.4	77	nnw.			2		2	nnw.						d. clouds.
H. M. S. Inflexible, N. 39° 38′, E. 19° 57′	29.94	760.5	63	17.2	89	ese.			3		9	calm				2	ese.	overcast.
H. M. S. Monarch, Symrna, Turkey in Asia	29.98	761.5	74	23.3	76	w.			1		8	nw.						d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.91	759.7	80	26.7	87	sw.			1		6	sw.						d. clouds.
H. P. M. S. Douro, St. Thomas, W.I	29.90	759.4	81.0	27.2	74	wsw.			2		8			2 h'r	2 h'r	2	se.	d. clouds.
U. S. Navy Yard, Portsmouth, N.H.*	30.01	763.0	40	4.4	91	ne.	9	4.0			10		ne.	0	0			cloudy.
U. S. S. Jamestown, N. 38° 22′, W. 72° 20′	29.99	761.7	57	13.9	?	e.			2		10			sm'h		nne.	rainy.	
U. S. S. Kearsarge, Algiers, Africa	30.08	764.0	72	22.2	67	nne.			1		0							clear.
U. S. S. Lancaster, Algiers, Africa	30.09	764.3	72	22.2	85	nne.			2		0					sm'h		clear.
U. S. S. New Hampshire, Newport, R. I.*	30.02	762.5	46	7.8	92	ne.			2		10		ne.			sm'h		cloudy.
U. S. S. Powhatan, Boston, Mass	30.09	764.3	43	6.1	92	nnw.			1		10							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.16	766.1	66	18.9	74	n.			1		2		n.					fair.
U. S. S. Saratoga, Poughkeepsie, N.Y.	30.06	763.5	40	4.4	?	nw.			3		2?	nw.	light	light		sm'h	nw.	overcast.?
U. S. S. Swatara, Port au Prince, Hayti, W.I	29.90	759.4	78	25.6	91	calm			0		8		h'vy	h'vy		sm'h		fair.
U. S. S. Vandalia, New York, N. Y †	30.04	763.0	52	11.1	86	e.			3		10							raining.
S. S. British Prince, N. 51° 39′ W. 12° 35′*†	29.68	753.9	58	14.4		sw.			5		9		sw.	10 h'r	10 h'r	mod.	con.	light rain.
S. S. British Princess, N. 46° 29′ W. 42° 51′ †	29.78	756.4	52	11.1		ese.			6		10		e.	22 h'r	22 h'r	r'gh	cross	overcast.
S. S. Lord Gough, N. 44° 56′, W. 56° 39′	29.90	759.4	46	7.8		nne.			3		2		ne.	6 h'r	6 h'r	mod.	se.	clear.
S. S. Ohio, N 48° 24′, W. 41° 41′ †	29.83	757.7	49	9.4	100	ne.			2		9		e.	sh'rs	sh'rs	sm'h	n.	cloudy.
S. S. Nova Scotian, off 7-foot Knoll, Chesapeake Bay			53	11.7		sw.			2		10		sw.			sm'h		cloudy.
S. S. Prussian, Glasgow, Scotland			52	11.1		ssw.			4		10		sw.	0	0			cloudy.
S. S. Scandinavian, Liverpool, Eng			50.5	10.3		ese.			4		10		ese.	3 h'r	3 h'r			overcast.
S. S. Alvo, Kingston, Jamaica, W. I*	29.92	760.0	80	26.7		calm			0		8		calm	0	0			cloudy.
S. S. Ailsa, Color., U.S.C			76	24.4	100	se.			2		2		se.	3 h'r	3 h'r	sm'h		showery.
S. S. Avilla, N. 18° 29′, W. 66° 42′			78	25.6		ene.			1		2		ene.	0	0		ene.	
S. S. Dorian, N. 42° 30′, W 68° 15′	30.05	763 3	51	10.6		e.			2		10		w.	driz.	driz.	long	ese.	overcast.
S. S. Furnessia, Liverpool, Eng†			63	17.2	89	se.			1		10		se.	0	0			hazy.
S. S. Carroll, Port Hawksbury, C.B					?	ne.			1		10		ne.	rain	rain			cloudy.
S. S. Llandaff City, New York, N.Y			43	6.1		nne.			4		5							rainy.
S. S. Cephalonia, N. 43° 02′, W. 55° 56′	29.83	757.7	53	11.7	100	nne.			6		7		ne.	4 h'r	4 h'r	r'gh	var.	d. clouds.
S. S. Bothnia, N. 51° 36′, W. 11° 24′	29.74	755.4	62	16.7	94	wsw.			4		10		sw.	3 h'r	3 h'r	long	sw.	gloomy.
S. S. Pavonia, N. 40° 30′, W. 62° 00′*	29.99	761.7	60	15.6	?	wnw.			2		8		n.	0	0	mod	ne.	cloudy.
S. S. Scythia, N. 47° 10′, W. 40° 54′	29.81	757.2	55	12.8	93	e.			2		2			5 h'r	5 h'r	mod.	n.	rainy.
S. S. Samaria, N. 47° 00′, W. 37° 30′*	29.87	758.7	56	13.3		s.			3		10		ese.	0	0	mod.	n.	cloudy.
S. S. Canada, N. 42° 05′, W. 64° 01′*	29.97	761.3	51.8	11		ene.			4		10			0	0	r'gh	e.	hazy.
S. S. France, N. 47° 25′, W. 38° 52′*†	29.86	758.4	55.4	13		se.			4		10		se.	rain	rain	sm'h	se.	overcast
S. S. Olinde Rodrignes, N. 12° 35′ W. 71° 25′			82	27.8		e.			4		2		e.	0	c	sm'h		hazy.
S. S. Bohemia, N. 43° 33′, W 55° 09′ *†	29.98	761.5				ne.			4		9		ne.	1 h'r	1 h'r	long	ne.	overcast.
S. S. Gellert, N. 49° 00′, W. 34° 10′			53	11.7	86	nnw.			3		4?		nw.	2 h'r	2 h'r	r'gh	nw.	covered.
S. S. Lessing, N. 40° 12′ W. 69° 39′	30.04	763.0	56	13.3		ne.			3		6		wsw.	0	0	sm'h	ne.	fair.
S. S. Silesia, N. 53° 56′, E. 7° 42′	30.12	765.0	59	15.0		wsw.			2		1			0	0	long	wnw.	hazy.
S. S. Westphalia, New York, N.Y	30.07	763.8	48	8.9	78	e.			1		2?		ene.	6 h'r	6 h'r			cloudy ?
S. S. Rhaetia, N. 50° 46′ W. 21° 29′	29.74	755.5	51	10.6	89	wnw.			6		5?		nw.	0	0	sm'h	w.	clear ?
S. S. Nessmore, N. 51° 14′, W. 11° 14′	29.70	754.4	57	13.9	100	ssw.			5		8		w.	0	0		w	cloudy.
S. S. Archimedes, N. 14° 04′. W. 26° 12′	29.66	761.0				nne.			5		2		calm	0	0	long	nne.	hazy.
S. S. Hevelius, Liverpool, Eng †	29.84	757.9	57	13.9		wsw.			4				s.	2 h'r	2 h'r			foggy.
S. S. Sirius, N. 16° 18′, W. 54° 40′	29.96	761.0				ene.			5		1		ene.	4 h'r	4 h'r	long	ene.	clear.
S. S. Rio Grande, Galveston, Texas†	30.05	763.3	67	19.4		e.			4		4		e.	0	0			clear.
S. S. Chalmette, N. 24° 10′, W. 85° 20′†	29.97	761.2	79	25.1		ne.			4		6		ne.	0	0	sm'h		fair.
S. S. Lone Star, N. 33° 13′, W. 76° 42′						n.			4		10		nne.	½ hr	½ hr	r'gh	var.	cloudy.
S. S. Alleghany, N. 40° —′, W. 73° —′†	30.07	763.8	54	12.2		e.			3		5?		e.	0	0	light	se.	cloudy?
S. S. Archimede, N. 36° 03′, W. 30° 36′†	29.99	761.7	70	21.1		ne.			5		6		ne	0	0	h'vy	nw.	cloudy.
S. S. City of Washington, N. 19° 05′, W. 95° 16′*†	30.00	762.0	85	29.4		var.			2		5		e.	0	0	sm'h		fine.
S. S. Cienfuegos, St. Jago, Cuba, W. I			78	25.6		n.			3		7		n.	3 h'r	3 h'r			cloudy.
S. S. England, N. 46° 06′, W. 39° 55′	29.76	755.9				sse.			5		10		se.	18 h'r	18 h'r	high	ne	rainy.
S. S. Erin, N. 42° 17′, W. 59° 12′			55	12.8		ne.			5		4		n.	8 h'r	8 h'r	long	ne.	fair
S. S. Holland, N. 40° 35′, W. 65° 23′	30.01	762.2	57	13.9		w.			5		8		nw.	4 h'r	4 h'r	r'gh	ne.	hazy
S. S. The Queen, N. 42° 43′, W. 54° 32′			50	10.0		n.			6		5		n.	7 h'r	7 h'r	high	n	fair.
S. S. America, N 47° 17′, W. 35° 10′ *	29.81	757.2				nw.			2		7		nw.	0	0	long	nw.	cloudy.
S. S. Donau, N. 47° 44′, W. 37° 10′	29.94	760.5				w.			1–2		6		sw.	0	0	mod.	w.	cloudy.
S. S. Elbe, N. 42° 18′, W. 62° 00′	30.01	762.3	55.4	13.0	77	ne.			4		5		ne.	4 h'r	4 h'r	cross	ene.	fair.
S. S. Hermann, N. 51° 37′, W. 0° 59′	30.00	762.0	59.9	15.5	94	sw.			4		3?		s.	0	0	mod.	sw.	cloudy.?
S. S. Orinoco, N. 34° 16′, W. 66° 43′			70	21.1		n.			1		6		n.	½ hr	½ hr	mod.	n.	fair.
S. S. Main, N. 50° 05′, W. 21° 30′	29.79	756.7	50.0	10.0		w.			5		5		nw.	8 h'r	8 h'r	long	nw.	fair.
S. S. Oder, N. 40° 39′, W. 66° 23′	29.96	761.0	54.5	12.5		wnw.			2		8		n.	2 h'r	2 h'r	mod.	nne.	cloudy
S. S. Rhein, N. 50° 19′, W. 2° 45′	30.00	762.0				ssw.			4		6		sw.	0	0	cross	sw.	fair.
S. S. Strassburg, N. 51° 48′ E 2° 19′	30.10	764.5	65.0	18.3	68	ssw.			1–2		10		ssw.	0	0	1	ssw.	cloudy.
S. S. Werra, N. 53° 43′, W. 6° 08′			51.8	11.0		w.			1–2		10		w.	0	0	sm'h	w.	cloudy.
S. S. Weser, N. 40° 30′, W. 55° 19′	29.87	758.7	60.8	16.0		n.			5		8		n.	1 h'r	1 h'r	long	n.	cloudy.
S. S. City of Augusta, New York, N. Y†	30.10	764.5				ssw.			3		4		sw.					smoky.
S. S. Muriel, N. 37° 05′, W. 72° 28′			66	18.9		wsw.			2		10					long	e.	raining.
S. S. Rhynland, N. 49° 41′, W. 31° 11′	29.84	757.9	53	11.7		nw.			6		7		nw.	10 h'r	10 h'r	high	nw.	squally.
S. S. Pennland, Antwerp, Belgium			60	15.6	82	sw.			3		2		s.	0	0			clear.
S. S. Switzerland, N. 48° 29′, W. 41° 37′*†	29.84	757.9				ne.			2		10		ne.	0	0	light	nne.	cloudy.
S. S. Vaderland, N. 39° 50′, W. 68° —′			55	12.8		nne.			5		5		ne.	0	0	mod	n.	
S. S. Waesland, New York, N. Y	30.03	762.7	56	13.3		e.			4		10		e.	1 h'r	1 h'r			overcast.
S. S. P. Caland, N. 50° 05′, W. 29° 00′	29.80	756.9	50.5	10.3	85	wnw.			5		5		wnw.			4	wnw.	fair.
S. S. Schiedam, N. 40° 30′, W. 70° 14′	30.03	762.7	53.8	12.1	94	var.			1		10			2 h'r	2 h'r	mod.	n.	raining.
S. S. Zaandam, Am-terdam, Holland	30.12	765.0	60.1	15.6	85	w.			2		9		e.	8 h'r	8 h'r			cloudy.
S. S. Caracas, Puerto Cabello, Venezuela*†	29.91	759.7	81	27.2	87	wsw.			2		0			0	0	light	nne.	clear.
S. S. W. A. Scholten, N. 49° 29′, W. 25° 17′	29.85	758.2	52.7	11.5	87	wnw.			6		8		wnw.	4 h'r	4 h'r			squally.
S. S. State of Indiana, N. 40° 32′ W 68° 45′			49	9.4		e.			2		4		sw.	0	0	sm'h		fair.
S. S. State of Alabama, N. 39° 21′, W. 38° 09′*†	29.89	759.2	63	17.2		sw.			6		7?		sw.	0	0	mod.	sw.	clear?
S. S. Thingvalla, N. 58° 32′, W. 7° 05′			50.9	10.5		s.			3		2		s.	3 h'r	3 h'r	r'gh	s.	clear.
S. S. Romano, N. 46° 05′, W. 22° 39′			55	12.8		n.			3		8		n.	0	0	sm'h		clear.
S. S. Salerno, Boston, Mass †	30.08	764.0	42	5.6		ne.			2		10		ne.	1.0	25.			raining.
S. S. Oregon, N. 53° 02′, W 51° 25′	29.90	759.4	36	2.2		w.			3		8		w.			mod.	w.	cloudy.
S. S. Quebec, Liverpool, Eng			50	10.0		s.			3		10		ssw.	0	0			overcast.
S. S. Texas, N. 39° 35′, W. 16° 21′ *†	30.00	762.0	70	21.1	80	se.			2		2?		e.	0	0	long	nw.	cloudy?
S. S. Olbers, N. 44° 31′, W. 43° 42′			60	15.6	97	ese.			8		10		ese.	5 h'r	5 h'r	high	ese.	overcast.
S. S. Daniel Steinmann, N. 44° 28′, W. 54° 18′			49	9.4		ne.			4		9		ne.	15 h'r	15 h'r	h'vy	e.	cloudy.
S. S. Plantyn, N. 50° 19′, W. 29° 39′	29.80	756.9							6		6		nw.	7 h'r	7 h'r	r'gh	nw.	squally.
S. S. Celtic, N. 50° 55′ W. 21° 50′†	29.80	756.9	57	13.9		w			4		8		w.	3 h'r	3 h'r	h'vy	w.	raining.
S. S. Republic, Fire Island, N. Y *†	29.97	761.2	52	11.1		e.			1		10		w.	0	0	sm'h		gloomy.
S. S. Iowa, N. 49° 44′, W. 37° 06′†	29.88	758.9	48	8.9		w.			4		4		w	9 h'r	9 h'r	mod	var.	fair.
S. S. Assyrian Monarch, N. 49° 58′, W. 15° 31′	29.85	758.2				n.			4		fg.			4 h'r	4 h'r	mod.	n.	foggy.
Bk. Arda, N. 20° 24′, W. 61° 32′						e.			2		4		e.	0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.12	765.0	49	9.4	85	w.			3		0			0	0			clear.
Bg. Abbie Clifford, St. Pierre, Martinique, W.I†	29.94	760.5	86	30.0		ene.			2		3		ene.	2 h'r	2 h'r			fine.
Schr. Arthur Burton, Charleston, S. C.†	30.03	762.7				n.			1		2		nne.	0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Schr. Abbie H. Gheen, off Sandy Point, Va.†	30.04	763.9	56	13.3		wsw.			2									cloudy.
S. S. Antonio Lopez, N. 36° 38′, W. 3° 22′*	30.08	764.0	67.5	19.7	76	e.			3		1			0	0	mod.	e.	clear.
Bg. Alcira, N. 11° 35′, W. 70° 16′	29.94	760.5	84	28.9		ene.			4		4		se	0	0	cross	ne.	hazy.
Bgt. Achsah, N. 41° 30′, W. 66° 00′			63	17.2		ene.			1		8		ene.	6 h'r	6 h'r	long	ene.	foggy.
Schr. Adda Doane, Port of Spain, Trinidad*†	29.94	760.5				e.			3		8		ese.	1 h'r	1 h'r	sm'h		cloudy.
Bg. Belle of the Bay, N. 27° 40′, W. 88° 32′						nne.			3		4		e.	light	light	var.	ne.	fair.
Schr. Clotilde, N. 23° 30′, W. 92° 53′ †	29.99	761.7	82	27.8		e.			1		2		se.	0	0	sm'h	var.	clear.
Schr. C. R. Flint, N. 15° 20′, W. 69° 02′†	30.02	762.5	85	29.4		e.			3		2		e.	0	0	mod.	ne.	clear.
S. Carondelet, N. 33° 39′, W. 48° 53′ *†	30.11	764.8				sw.			4		9		sw.	3½h'r	3½h'r	sm'h	sw.	cloudy.
S. S. D. J. Foley, N. 38° 30′, W. 75° 00*†	30.00	762.0	59	15.0	88	w.			1		8		w.	0	0	sm'h		cloudy.
S. David Stewart, Chesapeake Bay			66	18.9		n.			3		4		ne.					
S. E. J. Spicer, New York, N. Y.	30.06	763.5	53	11.7	93	ne.			2		7		ne.	4 h'r	4 h'r			light rain.
Bk. E. D. Bigelow, N. 25° 17′, W. 90° 51′			84	28.9		e.			1		2		se.	0	0			fine.
U. S. Fish Com. S. S Fish Hawk, Brooklyn, N. Y.†	30.03	762.7	48	8.9	85	e.			1		10		se.	0.07	1.8			cloudy.
Bk. Galeon, N. 28° 39′, W. 72° 00′†	30.05	763.3	79	26.1		se.			2		0			light	light	sm'h	nw.	blue sky.
Bk. Hattie G. McFarland, N. 14° 43′, W. 59° 08′†	30.00	762.0	82	27.8		ese.			5		4		se.	7 h'r	7 h'r	short	sse.	fair.
S. Hedwig, N 36° 19′ W. 73° 41′	30.03	762.7	60.3	15.7	96	nnw.			1		10		var.	2 h'r	2 h'r	2	ene.	overcast.
Bk. Heinrich & Tonio, N. 43° 30′, W. 35° 15′†	29.96	761.0	58	14.4		ese.			2		10		sw.	0	0	light	n.	cloudy.
Schr. Isabel Alberto, N. 32° 40′, W. 77° 15′†	30.06	763.5				nnw.			3		8		n.	shr's	sh'rs	mod.	n.	showery.
Schr. Jennie N. Huddell, N. 34° 35′, W. 75° 55′†	30.04	763.0	68	20.0	90	n.			5		10		n.	½ h'r	½ h'r	hv'y	ne.	fair.
Bg. John Wesley, N. 6° 17′, W. 42° 32′			83	28.3		ese.			2		1			0	0	cross	var.	clear.
Bk. John H. Pearson, N. 19° 23′, W. 34° 56′						ene.			4				ene.	0	0	long		clear.
Schr. John Bracewell, Dover, N. H.						ne.			1		5		nne.	2 h'r	2 h'r			fair.
Bg. Josefa, N. 36° 43′, W. 69° 50′†	30.03	762.7				s.			2		8		ssw.	0	0	short	s.	cloudy.
Bkt. John Brizley, N. 38° 20′, W. 54° 55′*†	29.89	759.2				nnw.			6		3		w.	2 h'r	2 h'r	long	nw.	clear.
Bg. Lilian, N. 36° 40′, W. 74° 30′ †	29.98	761.5	57	13.9		wnw.			3		9		nnw.	2 h'r	2 h'r	mod.	ne.	clearing.
Bg. L. & W. Armstrong, N. 31° 40′, W. 67° 50′*†	30.06	763.5				e.			2		1		ese.	0	0	sm'h	n.	clear.
S. S. Madrid, N. 38° 32′, W. 9° 34′ †	29.94	760.5	66	18.9	89	calm			0		3		w.	8 h'r	8 h'r	mod.	nw.	showery.
S. S. Mendoza, N. 10° 58′, W. 49° 06′†	30.05	763.3				ne.			1				ne.	0	0	sm'h	ne.	clear.
Bk Matilias, N. 47° 43′, W. 22° 23′ *†	29.93	760.2	55.0	12.8		wnw.			4		3		nw.	0	0	5	nw.	fair.
Schr. Norena, Humacao, Porto Rico						ene.			2		9		e.	8 h'r	8 h'r			squally.
Bk. National Eagle, N. 38° 02′, E. 2° 06′						ese.			2		2		e	0	0	mod.	e.	clear.
Bg. Rising Sun, San Juan, Porto Rico†	30.00	762.0	82	27.8														
Bk. Rosalie, N. 0° 14′, W. 33° 02′*†	29.94	760.5				sse.			4		2		sse.	¼ h'r	¼h'r	light	se.	clear
Bk. Saga, N. 54° 08′, E. 4° 47′*†	29.98	761.5	55	12.8		var.			3–6		2		w.	0	0			hazy.
S. Salisbury, N. 36° 03′, E. 14° 08′	29.99	761.7	66.6	19.2	78	ne.			1		4 k		ne.	0	0	r'gh	ne.	fair.
Bgt. Sunlight, N. 26° 23′, W. 59° 32′†	30.13	765.3				se.			2		2		se.	½ h'r	½ h'r	mod.	sse.	clear.
Bk. Samuel B. Hale, N. 9° 21′, W. 27° 15′						ne.			5				ne.	0	0	long	ne.	hazy.
Bk. Sunbeam, Rotterdam, Holland †	30.06	763.5	59	15.0	82	ssw.			3		7		sw.	6 h'r	6 h'r			cloudy.
Bk. Soud, off Granada, W. I.*†	29.95	760.7	86	30.0		e.			5		4		e.	½h'r	½h'r	sm'h		clear.
S. St. Francis, N. 24° 21′, W. 38° 45′			79	26.1		ene.			3		1		e.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 19° 11′, W. 60° 15′*†	29.95	760.7				e.			6				e.			r'gh	e.	
Bk. Southern Belle, N. 27° 22′, W. 32° 48′†	30.03	762.7	76	24.4		e.			2		0			0	0	mod.	e.	clear.
Bk. Tuck Sing, N. 38° 07′, W. 73° 10′						ese.			3		10			2 h'r	2 h'r	mod.	e.	rainy.
Schr. Walter L. Plummer, N. 21° 34′, W. 63° 24′						e.			4		2		se.			sm'h	ese.	clear.
Bk. Pilgrim, N. 10° 38′, W. 42° 05′*†	29.95	760.7				ene.			3		5		ene.	2 h'r	2 h'r	mod.	ne.	fair.
Bk. Achille F, N. 5° 15′, W. 45° 30′ †	29.97	761.2	83.5	28.6		se.			4		2		se.	0	0	light	se.	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.84	757.9	64	17.8	93	n.			1		8							misty.
H. M. S. Boadicea, Angra Penguena, Namqualand	30.01	762.2	60	15.6	88	wnw.			1		0					1	w.	blue sky.
H. M. S. Orontes, S 27° 13′, E. 14° 17′	29.98	761.5	64	17.8	94	nw.			6		0					5	nw.	blue sky
H. M. S. Sylvia, Montevideo, Uruguay	29.94	760.5	63.2	17.3	88	n.			2		10							overcast
U. S. S. Brooklyn, S. 35° 29′, E. 0° 58′ *	30.24	768.1	56	13.3	87	sse.	14	6.3			10		s.	0	0	sm'h		cloudy.
U. S. S. Nipsic, S. 35° 07′, W. 56° 30′*.	29.90	759.4	64	17.8	89	ene.			1		5?					mod.	ne.	clear.?
S. S. Rosse, S. 9° 33′, W. 33° 35′ *	30.02	762.5	82	27.8		ese.			4		1		ese.	0	0			clear.
S. S. Teniers, S. 20° 41′, W. 39° 50′	30.13	765.3	76.3	24.6	74	ne.			4	c	6 s			0	0	3	ene.	d. clouds
Bk Alpheus Marshall, S. 30° 31′, W. 20° 30′*†	29.91	759.7	67	19.4	89	ssw.			2		9		wsw.	6 h'r	6 h'r	sm'h	v	cloudy.
Bk. Bore, S. 21° 40′, W. 0° 51′*†	30.49	774.4	69	20.6		e.			2		9		ene.	0	0	sm'h	se.	cloudy.
Bk. Ceylon, S. 10° 18′, W. 34° 42′†	30.11	764.8	82	27.8	87	ese.			4		2		e.	0	0	mod.	se.	fine.
S. Dynomene, S. 7° 10′, W. 32° 40′	29.98	761.5	79	26.1	91	se.			4		4			0	0	mod.	ese.	d. clouds.
S. David Crockett, S. 6° 04′, W. 34° 32′*	29.94	760.5	79	26.1	78	sse.			3		6		sse.	0	0	sm'h	se.	d. clouds.
S. Frank N. Thayer, S. 29° 06′, E. 10° 54′*†	29.89	759.2	63	17.2	78	sw.			4		1 k		sw.	10 h'r	10 h'r	mod.	sw.	blue sky.
Bkt. Louise Adelaide, S. 30° 12′, W. 41° 40′ †	30.15	765.8				ene.			2		5		nw.	0	0	long	s.	fair.
Bgt. Willie, Montevideo, Uruguay *†	29.87	758.7	75	23.9		calm			0		8		calm	0	0	sm'h		cloudy.
Bk. Childwall, S. 40° 31′, W. 10° 07′*	29.99	761.7	58	14.4		nne.			5		9		nne.	0	0	sm'h		foggy.
District No. 3—North Pacific.																		
H. M. S. Audacious, N. 34° 07′, E. 135° 54′	30.38	771.6	63	17.2	72	nnw.			2		3	nw.				2	se.	d clouds
H. M. S. Champion, N. 3° 00′, E. 101° 00′	29.84	757.9	82	27.8	83	nw.			1		9							d. clouds.
H. M. S. Flying Fish, N. 31° 17′, E. 121° 46′	30.39	771.9	65.8	18.8	78	ne.			3		9	ne.				2	ne.	overcast.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.85	758.2	83.5	28.6	71	s.			1		2							blue sky.
H. P. M. S. Tamega, Macao, China	30.18	766.6	77	25.0	76	e.			2		4			0	0			d. clouds.
U. S. Naval Hospital, Yokohama, Japan	30.49	774.4	53	11.7	73	calm			0		10		w.	0	0			cloudy
U. S. S. Essex, Nagasaki, Japan	30.40	772.1	65	18.3	84	nne.			1		5							fair.
U. S. S. Hartford, Panama, Panama*	29.84	757.9	79	26.1	91	n.			1		5			0	0			fair.
U. S. S. Juniata, Canton, China	30.17	766.3	75	23.9	86	calm			0		0			0	0			clear.
U. S. S. Monocacy, N. 37° 28′, E. 126° 36′	30.53	775.4	57	13.9	41	calm			0		2		calm					fair.
U. S. S. Pensacola, Kobe, Japan			66	18.9	45	calm			0		2			0	0			clear.
U. S. S. Ranger, N. 32° 36′, W. 120° 18′	29.99	761.7	59	15.0	82	nw.			4–5		5			0	0			fair.
U. S. S. Richmond, Kobe, Japan	30.43	772.9	61	16.1	71	calm			0		2		ene.	0	0			clear.
S. S. Oceanic, N. 22° 47′, E. 116° 39′	30.20	767.1	76	24.4	95	ne.			5		6		ne.	0	0	4	ne.	fair.
S. S. City of Chester, Hookton, Cal.†	29.81	757.2	52	11.1	93	sw.			2									overcast.
S. S Oregon, N. 40° 04′, W. 123° 55′†	29.78	756.4	53	11.7	83	s.			4		8		s.			mod.	wnw.	cloudy.
S. S. Willamette, N. 46° 40′, W. 124° 45′ †	29.51	749.5	50	10.0	86	nnw.			3		8		nnw.	0.16	4.1	long	nw.	rainy.
S. S. Ancon, Piedras Blancas, Cal.†	29.94	760.5	57	13.9	81	nw.			2		0			0	0	light	nw.	clear.
S. S. Dakota, N. 42° 15′, W. 124° 41′ †	29.68	753.9	53	11.7		s.			9		7		se.	rain	rain	r'gh	sw.	light rain.
S. S. Orizaba, N. 37° 12′, W. (119)† 40′*†	29.94	760.5	55	12.8	81	nw.			6		10		sw.	3 h'r	3 h'r	long	wnw.	cloudy.
S. S. State of California, N. 45° 50′, W. 124° 20′†	29.53	750.0	45	7.2	87	s.			5		10		sw.			large	wsw.	squally.
S. S. Victoria, off Yaquina Head, Oregon†	29.49	749.0	49	9.4	88	sw.			6		8		wsw.			high	wsw.	rainy.
S. S. City of Pekin, N. 40° 40′, E. 157° 05′†	30.32	770.1	55	12.8	68	nne.			2		2		n.	0	0	light	n.	clear.
S. S. City of Sydney, N. 30° 40′, W. 139° 35′*†	30.18	766.6	62	16.7	78	nne.			3		6 k		ne.			mod.	nnw.	fair.
S. S. City of Rio de Janeiro, N. 36° 58′, W. 129° 10′†	30.01	762.2	60	15.6	100	wnw.			4		5		w.			large	nw.	light rain.
S. S. Colima, Panama, Panama†	29.93	760.2	77	25.0	90	nw.			2		6		calm	0	0			fair.
S. S. San Blas, N. 24° 00′, W. 111° 46′ †	29.90	759.4	72	22.2		nw.			5		0			0	0	mod.	wnw.	clear.
S. S. San Juan, N. 16° 30′, W. 99° 10′			84	28.9		se.			2		5 ks		ese.	0	0	light	se.	fair.
S. S. Zealandia, N. 25° 32′, W 150° 19′			76	24.4	73	e.			6		10			light	light	r'gh	ne.	squally.
S. S. Alameda, Honolulu, Sandwich Islands †	30.01	762.2	76	24.4		ene.			6		8		ne.	½ h'r	½ hr			cloudy.
S. Parker M. Whitmore, N. 14° 30′, W. 121° 18′*†	29.95	760.7	79	26.1		ne.			3		3		ne.	0	0	sm'h		clear.
S. Sovereign of the Seas, N. 10° 41′, W. 118° 30′			76	24.4	100	calm			0		8			5 h'r	5 h'r	mod.	se.	light rain.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 31′	29.84	757.9	79.3	26.3	91	ne.			2		6					sm.h		thund'r st'm
H. M. S. Mutine, Coquimbo, Chili	30.13	765.3	58	14.4		calm			0		0							misty.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
H. M. S. Nelson, Sydney, N. S. W.	29.86	758.4	60	15.6	94	calm			0		10							overcast.
U. S. S. Iroquois, Callao, Peru	30.05	763.3	62	16.7	88	calm			0		10							cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.11	764.8	56	13.3	81	calm			0		2		s.			sm'h		fair.
U. S. S. Onward. Callao, Peru *†	30.12	765 0	61	16.1	88	calm			0		10					mod.	w.	cloudy.
U. S. S. Wachusetts. Valparaiso, Chili*	30.14	765.5	60	15.6	94	calm			0		2		calm			sm'h		fair.
S. S. Australia, Sydney, N. S W	29.93	760.2	64	17.8	67	wsw.			2		0			0	0			clear.
S. S. City of New York, Sydney, N. S W.†	29.89	759.2	64	17.8	73	ne.			2		8		ne.	0	0			cloudy
Bk. E. L. Pettingill, S. 57° 22′, W. 70° 47′*†	29.40	746.7	35	1.7		w.			7		5		w.	0	0	h'vy	wsw.	fair.
S. E. B. Sutton, S. 27° 10′, W. 124° 30′ *†	30.14	765.5	71	21.7	95	ene.			2		6?		ne.	10 h'r	10 h'r	h'vy	s;sw.	overcast.?
S. Armenia, S. 56° 11′, W. 80° —′*	28.85	732.8	44	6.7	84	wnw.			6		10		w.	½ h'r	½ h'r	h'vy	w;nw.	rain-squalls.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.09	764.3	66	18.9		se.			5		8		sse.			long	se.	fine.
S. Storm King. S. 32° 51′, W. 119° 48′*†	30.22	767.6				e.			4		10		e.	20 h'r	20 h'r	cross	var.	dense fog.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, S. 4° 20′, E. 41° 15′	29.91	759.7	79	26.1	86	se.			1		2	calm						blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.93	760.2	81	27.2	91	se.			3		2	sse.				2	sse.	blue sky.
H. M. S. Tourmaline, S. 6° 30′ E. 41° 00′	29.98	761.5	80	26.7	74	ese.			1		2	ese.				1	ese.	blue sky.
H. M. S. Woodlark, Bushir, Persia	30.06	763.5	79.5	26.4	74	nw.			4		3	nw				2	nw.	misty.
Bk. Great Surgeon, S. 11° 28′, E. 103° 56′*†	30.04	763.0	80	26.7		e.			5		2		n.	½ h'r	½ h'r	cross	sw;se	clear.
Bk. Mohican, S. 41° 15′, E. 46° 01′	30.22	767.6	52	11.1		wnw.			6		10		wnw.	0	0	r'gh	wsw.	cloudy.
S. S. Radnorshire, N. 12° 14′, E. 49° 30′*†	30.00	762.0				e.			3		0			0	0	sm'h		fine.
S. S. Galatia, N. 20° 59′, E. 38° 10′†	29.94	760.5	87	30.6	80	e.			1		0			0	0	sm'h		clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 27. 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.08	763.9	72.7	22.6	81	n.			2		6			0	0	cloudy	Roziere.
Algiers			30.10	764.4	69.4	20.8	65	ne.			1		0			inap.	inap.	clear	Thève.
La Calle			30.13	765.2	68.4	20.2	55	n.			3		2			0	0	fair	Fonfrède.
Tunis			30.12	765.0	66.2	19.0	83	w.			3		3			0	0	pretty fair	Delord.
Saida			30.16	766.0															Pérès.
Tebessa			30.16	766.0	61.5	16.4	60	ne.			2		0			0	0	clear	St. Martin.
Geriville					70.2	21.2	26	nne.			1		3			inap.	inap.	pretty fair	Forfert.
Laghouat			30.17	766.2	68.7	20.4	55	n.			1		0			0	0	clear	Abraham.
Biskra			30.14	765.5	76.3	24.6	52	se.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			29.93	760.2	46.2	7.9	78	s.	8	3.6			1			0.279	7.1	clear	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.43	747.5	29.52	749.8	46.1	7.8	84	w.	22	9.8			10			0.07	1.8	heavy rain	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.80	757.0	30.36	771.2	53.1	11.7	65	nw.			1		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.54	756.2	30.31	769.8	55.2	12.9	81	w.	1.8	0.8			3			0	0		Dr. Wierzbiski
Eperies	29.45	748.1	30.35	770.8	50.0	10.0	82	calm			0	1 cs				0	0		Julius Mikolik.
Gratz	29.10	739.0	30.37	771.5	49.6	9.8	82	calm			0		10			0	0		Andreas Rospini.
Hermannstadt	28.91	734.2	30.34	770.5	57.7	14.3	68	se.			1		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.86	733.0	30.21	767.4	51.1	10.6	85	calm			0		0			0	0	clear	The Staff.
Lemberg	29.36	745.8	30.35	770.9	57.2	14.0	67	s.			3		1			0	0		Dr. T. Stanecki.
Pola	30.13	765.2	30.24	768.0	61.7	16.5	78	n.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.85	758.3	30.32	770.1	59.0	15.0	58	ne.			2		1			0	0		Joseph Midlinsky, S. J
Szegedin	30.04	763.0	30.32	770.2	56.1	13.4	63	w.			2		6			0	0		Karl Stanzel.
Trieste	30.20	767.0	30.30	769.5	61.0	16.1	65	ne.			3		0			0	0		Royal Academy.
Vienna	29.57	751.0	30.29	769.3	55.6	13.1	65	se.			4		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.91	759.7	50.2	10.1	66	ssw.	10	4.5			4			0	0	blue sky	W. Boswell.
Armagh, Observatory	29.78	756.4	30.02	762.5	51.1	10.6	79	sw.	6	2.7			2					blue sky	S. Call.
Bidston, Liverpool Obs'y			30.03	762.7	52.6	11.4	80	w.	7	3.1			8					overcast	John Hartnup.
Bolton, Sharples	29.48	748.8	30.02	762.5	51.3	10.7	93	sw	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.62	752.3	30.02	762.5	54.5	12.5	83	sw.			1		9			0	0	overcast	McLandsborough & Preston.
Cardington	29.95	760.7	30.06	763.5	61.4	16.3	71	sw.			0.2		6					d. clouds	John McLaren.
Chatham, School M. E.	29.92	760.0	30.09	764.3	61.0	16.1	72	s.			1		7					d. clouds	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.86	758.4	30.09	764.3	57.6	14.2	86	s.			2		7					d. clouds	The Staff.
Fort Napier, Natal	27.54	699.5	29.77	756.1	81.8	27.7	49	w.			5		4					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.72	754.9	29.95	760.7	85	29.4	83	n.			2		4					d. clouds	J. W. Smith.
Galway, Queen's College	29.88	758.9	29.92	760.0	47	8.3	92	nw.			1		3			0.16	4.1	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	66.4	19.1	98	e.			4		6					d. clouds	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.76	755.9	29.97	761.2	52.2	11.2	69	sw.			3	c	5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.92	760.0	30.09	764.3	58.7	14.8	78	w.			1		9					d. clouds	The Staff.
Guernsey	29.82	757.4	30.12	765.0	58.6	14.8	83	wsw.			1		6					d. clouds	A. Collenette, F. M. S
Kew, Observatory	30.05	763.3	30.09	764.3	57.7	14.3	82	ssw.	3	1.3			3					d. clouds	The Staff.
Leicester, Museum	29.78	756.4	30.03	762.7	60.2	15.7	75	sw.			1		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	68.2	20.1	61	sw.			2		6			0.18	4.6	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	29.93	760.2	29.98	761.5	81.5	27.5	81	e.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.54	750.3	30.06	763.5	59.2	15.1	83	ssw.			2		8					d. clouds	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.84	757.9	30.07	763.8	60.0	15.6	72	sw.			2		2					blue sky	The Staff.
Plymouth	30.01	762.2	30.08	764.0	55.3	12.9	93	s.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	29.59	751.6	29.69	754.1	48.1	8.9	70						1					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.09	764.3	30.16	766.1	66.0	18.9	73	ne.			2		0					d. clouds	W. H. Lyne.
Sheffield	29.76	755.9	30.04	763.0	59.7	15.4	76	ssw.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	29.96	761.0	29.99	761.7	53.8	12.1	80	w.			2		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.05	763.3	51.4	10.8	82	w.	9	4.0			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					59.5	15.3	78	w.			0.5		6					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.04	763.0	30.12	765.0	59	15.0	82	se.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.99	761.7	30.02	762.5	53.5	11.9	80	sse.	15	6.7			6					d. clouds	The Met'g'l Office.
Sub-series.																			
Goxo, Episcopal Seminary	29.70	754.4	30.10	764.5	66.2	19.0	54	calm	0	0		3 c	5 n		w.	0	0	cloudy	Rev. Ph. Borrelle
Canadian.																			
Bathurst, N. B.	30.06	763.5	30.10	764.5	39.0	3.9		calm	0	0		10 cs	0	e.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.97	761.2	30.01	762.2	42	5.6	85	n.	8	3.6			10 s		w.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.04	763.0	30.11	764.8	36	2.2	89	ne.	3	1.3		2 ck	8 ks	ne.	ne.	0	0	cloudy	G. A. Blair.
Cornwall, Ontario	29.87	758.7	30.07	763.8	39.5	4.2	93	e.			1		10 s			0	0	overcast	Jas. Smith, M. A.
Dalhousie, N. B.																			H. A. Johnson.
Edmonton, N. W. T *	27.08	687.8			26	— 3.3	52	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.09	764.3	30.11	764.8	31	— 0.6	78	ne.	10	4.5		5 c	2 k	ne.	ne.	0	0	fair	J. M. Williams.
Fort Garry, Manitoba*	28.92	734.6	29.77	756.1	34	1.1	85	se.	19	8.5		0	8 ks		nw.	0.03	0.8	fair	James Stewart.
Fredericton, N. B.	30.01	762.2	30.08	764.0	34.0	1.1	84	w.	2	0.9			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	29.97	761.2	30.03	762.7	43	6.1	86	ne.	11	4.9		5 ck	0	n.		0.08	2.0	clearing	J. Chipman Seeley
Granton, Ontario	29.01	736.8	30.16	766.1	29.0	— 1.7	70	calm	0	0		0	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.86	758.4	29.99	761.7	43	6.1	93	ne.	7	3.1			10 k			0.032	0.8	light rain	A. Allison.
Hamilton, Ontario	29.70	754.4	30.10	764.5	34.1	1.2	96	nw.			1	2 c	0	nw.		0	0	blue sky	Geo. Dickson, B. A.
Kingston, Ontario*	29.78	756.4	30.12	765.0	37	2.8	79	calm	0	0		0	hz.			inap.	inap.	hazy	A. P. Knight, M. A
Little Glace Bay, N. S.	29.94	760.5	29.98	761.5	41.0	5.0	9	s.			1		10 n			0	0		C. H. Rigby.
London, Ontario	29.22	742.2	30.16	766.1	30.6	— 0.8	97	calm			0	0	2			0	0	fair	E. B. Reed.
Medicine Hat, N. W. T.	27.08	687.8	29.36	745.7	35	1.7	79	w.	12	5.4		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.68	703.1	29.63	752.6	33	0.6	96	se.	7	3.1			10 n		se.	0.07	1.8	light snow	Rev. J. M. Wellwood.
Montreal, Quebec*	29.89	759.2	30.11	764.8	39	3.9	92	n.	4	1.8			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.89	759.2	30.12	765.0	37.2	2.9	96	ne.					10 ks			0	0	overcast	A. McGill, M. A.
Parry Sound, Ontario*	29.42	747.3	30.15	765.8	27	— 2.8	88	n.	5	2.2		0	0			0	0	clear	Rev. R. Mosley.
Peterboro, Ontario	29.27	743.4	30.03	762.7	38.7	3.7	79	nw.			1	0	3 k			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.27	743.4	29.99	761.7	38	3.3	89	ne.	2	0.9		0	8 ks		w.	0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.42	747.3	30.13	765.3	40	4.4	100	ne.	3	1.3		10 c	0	nw.		0.02	0.5	cloudy	H. Morgan
Port Stanley, Ontario	29.46	748.3	30.12	765.0	36	2.2	92	ne.	3	1.3			8 k		sw.	inap.	inap.	cloudy	M. Payne.
Qu Appelle, N. W. T	27.24	691.9	29.53	750.0	31	— 0.6	96	s.	12	5.4			10 n		s.	inap.	inap.	cloudy	Leslie Gordon.
Quebec, Quebec*	29.73	755.1	30.09	764.3	39	3.9	100	n.	4	1.8			10 n			0.04	1.0	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.64	752.8	30.11	764.8	37	2.8	82	w.	3	1.3			10 s		nw.	0	0	cloudy	N. H. McIntyre.
St. Andrews, N. B.	29.93	760.2	29.98	761.5	40	4.4	91	n.	5	2.2		hz.	5 ks			0.09	2.3	fair	
St. John, N. B	29.89	759.2	30.04	763.0	39.0	3.9	91	ne.	4	1.8		5 k	5 ks	ne.		0	0	overcast	G. Hutchinson.
Saint John's, N. F.	29.67	753.6	29.93	760.2	39	3.9	82	ne.			1	0	0			0.05	1.3	clear	J. Higgins.
St. Pierre, N. F.			29.96	761.0	42.8	6.0		s.			7								The Commandant.
Saugeen, Ontario*	29.40	746.7	30.15	765.8	30	— 1.1	88	n.	3	1.3		2 cs	0			0	0	clear	
Stratford, Ontario	28.84	732.5	30.18	766.6	28.0	— 2.2	94	calm	0	0		0	0			0.115	2.9	blue sky	C. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper 0–10	Lower 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	WEATHER.	OBSERVERS
CANADIAN—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	29.94	760.5	30.01	762.2	33	0.6	100	calm	0	0		5 c	5 ks		ne.	0	0	cloudy	[illegible], C. E.
Toronto, Ontario*	29.76	755.9	30.17	766.3	29	— 1.7	88	n.	7	3.1		0	0			0.01	0.3	clear	Magnetic Observatory.
Woodstock, Ontario	29.09	738.9	30.20	767.1	30.7	— 0.7	97	nw.	6	2.7		0	8 s			0	0	foggy	Prof. N Wolverton, M.A.
Yarmouth, N. S.*	29.92	760.0	29.99	761.7	44	6.7	96	ne.	4	1.8		8 ck	0	n.		0.07	1.8	fair	Lt. F. E. Wilmot, R. N.
CAPE COLONY																			
Cape St. Francis Lt. House	29.80	756.9	29.83	757.7	64.0	17.8	86	calm	26.2	11.7			fg			0.010	0.3	fine	I. Garfelt.
Cape Town	29.91	759.7			58.8	14.9	94					0	9 kn			0	0		
Springbok Fontein	27.91	708.9			61	16.1	65									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.96	760.9	30.04	762.9	56.8	13.8	89	n.			2		10		n.			cloudy	Samuel Redolez.
Iquique	29.98	761.5	30.01	762.2	63.3	17.4	70	ne.			3							foggy	Rafael Moreno.
Niebla	29.65	753.1	29.76	755.8	50.4	10.2	84	e.			4	0	0			0	0	clear	Federico Köhling.
Punta Caldera	29.95	760.6	30.03	762.8	57.6	14.2	84	nw.			2	6 c	0	nw.	nw.			cloudy	Manuel Tobar.
Punta Corona	30.11	764.8	30.30	769.6				s.			1		10			0.039	1.0	cloudy	Francisco Alvarado.
Valparaiso	29.93	760.3	30.02	762.5	57.0	13.9	85	s.			1	1	0					clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.16	639.1																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.23	767.8	30.25	768.4	61.9	16.6	98	w.	1.8	0.8			10 n			0.197	5.0	raining	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.02	762.4	30.06	763.6	50.9	10.5	91	ssw.	11	5			10					dense fog	Oversergent Fischer.
Fanoe	30.02	762.5	30.04	763.0	52.5	11.4	99	wsw.			2		8						Overloerer Lauridsen.
Godthaab, Greenland	29.63	752.5	29.67	753.6	22.3	— 5.4	90	ene.			2		9						S. Kleinschmidt.
Jacobshavn, Greenland	29.62	752.4	29.67	753.6	16.5	— 8.6		e.			2		0						
Stykkisholm, Iceland	29.13	739.8	29.17	740.9	38.5	3.6	72	ne.			6		10						A. O. Thorlacius.
Thorshavn	29.48	748.8	29.50	749.4	45.7	7.6	80	w.	29	13			6						Overloerer Bergh.
Vestervig	29.87	758.6	29.96	760.9	52.7	11.5	96	sse.			4		8						Loerer Oesterrool.
EGYPTIAN.																			
Cairo	29.86	758.5			82.0	27.8		ne.	6.0	2.7			3 kn			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.51	749.6	30.15	765.8	64.8	18.2	88	sse.			1		nk			0	0		M. Labroue, Director.
Alençon, Normal School	29.61	752.2	30.17	766.2	58.3	14.6	95	ne.			1				sw.	0	0		M. Nicot, Director.
Avignon, Normal School	30.12	765.0	30.20	767.0	66.9	19.4	67	nw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.60	751.9	30.15	765.9	59.5	15.3	71	sse.			1		8 cn			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.87	758.8	30.14	765.6	55.6	13.1	81	se.			1		2		w.	0	0	slightly cl'dy	M. Frère Eugène Marie.
Besançon, Normal School	29.24	742.6	30.15	765.9	50.0	10	93	sw.			1		1		s.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.4	30.08	763.9	66.0	18.9	72	e.			1	2 c				0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.59	751.6	30.13	765.4	62.6	17	70	e.			1	c		e.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.88	759.0	30.12	765.1	64.8	18.2	80	s.			1		2		s.	0.098	2.5		M. de Kermarée, Dir.
Caen, Normal School	29.99	761.7	30.06	763.6	61.2	16.2	85	ne.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.81	757.1	30.13	765.3	60.4	15.8	85	s.			1		8		w.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.64	752.8	30.15	765.7	53.8	12.1	80	ese.			1		8			0	0	¾ covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.79	731.2	30.12	765.0	65.8	18.8	39	s.			1	2 c; ck				0	0		M. Allnard, Director.
Cluny, Normal School	29.36	745.8	30.22	767.7	64.6	18.1	62	s.			1					0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.31	744.5	30.17	766.3	58.6	14.8	83	w.			1		2 kn	w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.66	702.5	30.17	766.2	60.8	16	46	sw.			1		0			0	0		M. Jarach, Director.
Grénoble, Normal School	29.08	738.5	30.18	766.5	70.0	21.1	43	sw.			2		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.43	747.5	30.20	767.0	58.6	14.8	76	ene.			1		0			0	0	clear	M. Ablard, Directoor.
Guéret, Normal School	28.57	725.6	30.13	765.4	63.7	17.6	72	sw.			1	ck			sw.	0.008	0.2		M. Delorme, Dir.
Lamballe, Normal School	29.73	755.1	30.00	762.1	59.0	15	95	se.			2		5		se.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.49	749.0	30.07	763.7	74.5	23.6	34	e.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	763.0	30.14	765.6	59.4	15.2	83	calm			0		10	calm	calm	0	0	covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.11	739.4	30.16	766.0	61.3	16.3	75	ssw.			1	c	5 cs			0	0	fair	M. André, Director.
Mans, Normal School	29.83	757.6	30.14	765.5	57.7	14.3	92	s.			1		8		sw.	0	0	very cloudy	M. Richard, Director
Marseille, Observatory	29.91	759.6	30.17	766.4	67.1	19.5	62	w.			1		0			0	0		M. Stephan, Director.
Montlouis	24.94	633.4	29.78	756.4	54.0	12.2	31	s.	11.2	5.0			6		nw.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.04	763.0	30.15	765.7	66.2	19		se.			4		2	sw.		0	0	slightly cl'dy	M. Gaizin, Director.
Nancy	29.41	747.0	30.19	766.7	57.9	14.4	86	nnw.			1		kn			0	0		M. Hasse, Director.
Nantes, Observatory	29.98	761.4	30.14	765.5	58.1	14.5	86	ene.			1		10 n			0	0		M. Latrocque, Director.
Perpignan, Observatory	30.04	762.9	30.15	765.7	65.1	18.4	69	ne.	7.4	3.3			10		ssw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	542.1			37.0	2.8		sw.			1		1		sw.	0	0	clear	M. Vaussenat, Director.
Privas, Normal School	29.12	739.7	30.17	766.4	65.8	18.8	59	n.			1		10	n.	n.	0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.31	642.8			49.3	9.6	69	wsw.			1		2			0	0		M. Allnard.
Rochefort, Naval Obs'y	30.07	763.7	30.10	764.5	63.0	17.2	76	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.87	758.7	30.09	764.2	58.6	14.8	93	se.			1		0			0	0	clear	M. Brotier, Director.
Rodez, Normal School	27.93	709.4	30.07	763.8	58.8	14.9	97	w.			1	ck		w.		0	0		M. Seger, Director.
Rouen, Normal School	30.08	763.9	30.12	765.1	60.4	15.8	79	nnw.			1		5	nnw.		0	0	cloudy	M. Moullot, Dir.
St Lô	29.97	761.3	30.11	764.9	60.6	15.9	82	w.			1		5		se.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	29.98	761.5	30.15	765.7	55.6	13.1	94	ssw.			1		10		sw.	0	0		M. Menon, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	66.6	19.2	66	sse.			4		2	se.		0	0	slightly cl'dy	M. Bulliard, Director.
Tours	29.98	761.6	30.16	766.1	62.2	16.8	77	e.			1			se.	s.	0	0		M. de Tastes.
Versailles, Observatory	29.65	753.0	30.14	765.5	55.0	12.8	93	se.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.92	759.9	30.07	763.7	67.5	19.7	72	e.	2.0	0.9		5 ck		sw.		0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.73	729.8	30.19	766.8	53.1	11.7	87	calm			0		2			0	0		Prof. Jnedt.
Bamberg	29.32	744.6	30.10	766.1	50.9	10.5	80	calm			0		10 k		w.	0	0		Prof. Dr. Hoh.
Berlin	30.01	762.2	30.15	765.8	59.7	15.4	67	s.			1		7			0.059	1.5		Dr. Lensch.
Breslau	29.72	754.8	30.25	768.4	55.8	13.2	67	sse.			3		2	w.		0	0		Royal University Obs'y.
Carlsruhe	29.72	755.0	30.19	766.7	57.2	14.0	78	sw.			1		0			0	0		Albert Senz.
Cassel	29.43	747.4	30.14	765.5	53.6	12.0	84	s.			2		8	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.79	756.7	30.17	766.2	50.9	10.5	90	ssw.			1		10			0	0		Physical Society.
Friedrichshafen	28.79	731.3	30.23	767.9	51.8	11.0	87	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.02	762.5	30.11	764.8	56.1	13.4	81	wsw.			2		4			0.012	0.3		E. Freier.
Kiel	30.07	763.8	30.09	764.2	52.0	11.1	89	ssw.			2		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.73	755.2	30.15	765.9	57.9	14.4	65	ssw.			2		6			0	0		H. Leppig, Asst.
Magdeburg	29.91	759.8	30.10	764.6	60.3	15.7	68	sse.			2		6	sw.		0	0		Weather Observatory.
Memel	30.27	768.9	30.32	770.1	47.5	8.6	92	s.			3	10 cs							Issermann.
Munich	28.35	720.0	30.22	767.6	57.0	13.9	64	nw.			2		1			0	0		Central Station.
Neufahrwasser	30.24	768.2	30.26	768.6	50.9	10.5	94	se.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.61	752.2	30.14	765.6	52.7	11.5	88	w.			1		4	w.		0	0	foggy	Dicknether.
Stuttgart	29.21	742.0	30.14	765.6	59.7	15.4	69	e.			1		0			0	0		Prof. Dr. Schoder.
Wustrow	30.05	763.3	30.08	764.0	56.3	13.5	81	s.			3		5 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.70	754.4	30.08	764.1	63.0	17.2		ne.			0.5		10			0.472	12.0	covered	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.94	760.4	29.99	761.7	86.1	30.1	39	sw.	17.0	7.6			0			0	0	blue sky	
Deesa	29.50	749.2	29.96	761.2	89.8	32.1	21	sse.	2.0	0.9			5	sse.		0	0	d. clouds	
Bombay	29.88	759.0	29.92	760.0	84.0	28.9	64	nw.	10.0	4.5			10		wnw.	0	0	overcast	
Poona, Yarrowda	28.09	713.5	29.95	760.6	80.4	26.9	32	e.	9.0	4.0			0			0	0	blue sky	
Trichinopoly	29.64	752.8	29.92	760.1	73.9	23.3	90	nw.	0.2	0.1			10			0.10	2.5	overcast	
Bellary	28.41	721.6	29.89	759.1	77.5	25.3	80	ne	2.0	0.9			10			0.05	1.3	gloomy	
Belgaum	27.38	695.5	29.94	760.3	74.3	23.5	83	calm	0	0			6	w.	n.	0	0	d. clouds	
Lahore	29.28	743.6	30.03	762.8	75.3	24.1	46	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	29.09	738.8	30.00	761.9	75.8	24.3	49	calm	0	0			0			0	0	blue sky	
Agra	29.46	748.3	30.02	762.6	85.2	29.6	28	e.					0			0	0	blue sky	
Nagpur	28.92	734.7	29.98	761.4	77.2	25.1	41	calm	2.0	0.9			0			0	0	blue sky	
Jubbulpore	28.64	727.4	30.02	762.4	75.0	23.9	49	calm	0	0			2			0	0	d. clouds	
Lucknow	29.65	753.0	30.03	762.7	79.2	26.2	49	calm	0	0			0			0	0	blue sky	
Allahabad	29.66	753.4	29.98	761.5	75.7	24.3	56	calm	0	0			6			0	0	d. clouds	
Patna	29.80	756.8	29.98	761.6	77.9	25.5	61	nne.	1.2	0.5			2	nne.	nne.	0	0		
Hazaribagh	27.96	710.0	29.98	761.6	75.4	24.1	45	ne.	2.3	1.0			0			0	0	blue sky	
Cuttack	29.88	758.8	29.96	760.9	79.2	26.2	71	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.93	760.1	29.95	760.7	77.5	25.3	75	calm	0	0			0			0	0	blue sky	
Dhubri	29.84	758.0	29.96	761.0	78.1	25.6	78	e.	4.3	1.9			0			0	0	blue sky	
Chittagong	29.84	758.0	29.93	760.3	80.7	27.1	79	calm	1.2	0.5			0			0	0	blue sky	
Sibsagar	29.68	753.8	30.02	762.4	76.4	24.7	77	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.55	725.3	30.00	761.9	82.9	28.3	26	nnw.	4.5	2.0			4		nw.	0	0	d. clouds	
Zanzibar	29.93	760.2			80.7	27.1	74	wsw.	2.9	1.3			5		wnw.	0	0	d. clouds	
ITALIAN.																			
Udine	29.86	758.4	30.27	768.8	60.1	15.6	51	e.	4.9	2.2			0			0	0		Prof. Giovanni Clodig.
Milan	29.76	755.8	30.27	768.9	60.1	15.6	66	ese.	2.5	1.1			3	ene.		0	0		Prof. G. V. Schiapparelli
Padua	30.15	765.8	30.26	768.6	60.6	15.9	46	n.	7.8	3.5			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.35	745.5	30.26	768.6	58.1	14.5	65	nw.	1.3	0.6			1			0	0		Prof. F. F. Denza.
Genoa	30.02	762.5	30.21	767.4	61.7	16.5	55	n.	6.3	2.8			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.35	720.0	30.27	768.8	53.1	11.7	78	wnw.			4		1			0	0		Prof. D. C. Bruno.
Pesaro	30.21	767.4	30.26	768.6	60.1	15.6	77	nw.	11.9	5.3			2	nw.		0	0		Prof. Luigi Guidi.
Florence	29.93	760.3	30.19	766.8	64.9	18.3	47	ne.			4					0	0		Prof. Costantino Pittei
Leghorn	30.04	762.9	30.12	765.1	66.9	19.4	39	ene.	8.1	3.6			0			0	0		Prof. P. Monte.
Rome	29.97	761.3	30.15	765.7	66.2	19.0	36	n.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	29.85	758.1	30.10	764.5	69.8	21.0	68	nne.	9.8	4.4			2			0.016	0.4		Prof. C. de Giorgi.
Cosenza	29.20	741.7	30.09	764.3	58.6	14.8	60	wnw.	1.8	0.8			10	w.		0.146	3.7		Prof. D. Conti.
Cagliari	29.90	759.4	30.09	764.2	70.2	21.2	58	se.			2		7	ne.		0	0		Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	764.1	64.8	18.2	64	ne.	3.1	1.4			5			0.008	0.2		Prof. G. Cacciatore.
Syracuse	29.98	761.4	30.02	762.5	67.5	19.7	60	e.	4.9	2.2			6	ssw.		0	0		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.60	751.8	30.12	765.0	63.5	17.5	66	ne.	8.1	3.6			5	ne.		0.020	0.5		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.42	772.7	30.45	773.6	41.1	5.1	99	calm			0	0	0			0.031	0.8	clear	H. Hattori.
Awomori	30.43	772.9	30.46	773.7	37.8	3.2	87	calm	0	0		0	0			0	0	clear	K. Ogawa
Hamamatsu	30.30	769.6	30.40	772.1	57.5	14.2	70	e.			4		10 s			0	0	overcast	Sekigawa & Yamazaki.
Kagoshima	30.28	769.0	30.29	769.3	67.9	19.9	63	ne.			4	0	2 cs; s			0	0	clear	G. Miyanohaza.
Kanazawa	30.25	768.3	30.36	771.1	54.2	12.3	79	se.	6.4	2.9		0	8 s			0	0	cloudy	S. Endo.
Kioto	30.18	766.5	30.35	770.9	57.7	14.3	73	nnw.	1.4	0.6			10 s			0	0	cloudy	M. Tojima.
Kochi	30.35	771.0	30.37	771.5	58.0	14.4	88	ne.	2.5	1.1		0	4 s			0.03	0.8	fair	K. Kusunose.
Miasaka	30.31	769.8	30.33	770.5	60.2	15.7	86	nnw.			2		9 s		e.	0	0	cloudy	K. Masusaki.
Miyako	30.40	772.2	30.51	775.0	42.8	6.0	84	wsw.	2.4	1.1			10 s			0	0	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	30.07	763.8	30.27	768.8	61.6	16.4	81	calm	0	0		0	7 s			0.180	4.6	cloudy	S. Takehayash.
Niigata	30.34	770.6	30.38	771.6	49.2	9.6	91	se.	2.0	0.9		0	0			0.030	0.8	clear	Satoo & Tomikawa.
Nobiru	30.47	774.0	30.49	774.4	48.2	9.0	88	ene.	4.2	1.9			8 s			0.040	1.0	fair	Yoslino & Midzushina.
Numazu	30.42	772.6	30.46	773.7	56.7	13.7	69	ne.			2		10 ks			0.374	9.5	cloudy	R. Kaneda.
Osaka	30.33	770.4	30.35	770.8	58.0	14.4	71	nne.	6.1	2.7			10 s			0	0	cloudy	H. Omura.
Sakai	30.31	769.8	30.32	770.0	57.7	14.3	84	e.			2		10 n		ene.	0.040	1.0	raining	Yamawchi & Sakamoto.
Shimonoseki	30.14	765.6	30.29	769.3	62.2	16.8	78	e.			4		10 ks			0.079	2.0	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	30.41	772.3	30.48	774.3	54.5	12.5	81	ne.	4.9	2.1			10 s			0.085	2.2		The Staff.
Wakayama	30.28	769.2	30.33	770.5	56.4	13.6	79	ne; ene	4.9	2.2		9 ck	0	w.		0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	77.0	25.0	65	ese.	23.0	10.3		0	3 k		ese.	0.12	3.0	fair	The Staff.
MEXICAN.																			
Leon	24.27	616.4	30.03	762.7	51.1	10.6	82	n.	0.9	0.4		9 c	0			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.03	752.5	29.88	759.0	74.0	23.3	90	ne.	1.0	0.8		0	1 s			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.13	765.3	30.13	765.3	59.0	15.0		sse.			4					0	0		
Groningen	30.04	763.0	30.10	764.4	52.5	11.4		wsw.			1					0.024	0.6		
Helder	30.09	764.2	30.09	764.2	54.7	12.6		sw.			2					0	0		
Hellevoetsluis	30.11	764.9	30.11	764.9	59.0	15.0	79	calm			0					0	0		
Utrecht	30.08	764.0	30.13	765.2	58.1	14.5	78	s.			1		2			0	0	lightly cl'dy	H. van der Brink
Sub-series.																			
Batavia, Java	29.86	758.4			79.7	26.5	86	nne.	1.0	0.9			9			1.291	32.8		Lt. J. J. Roptman, R.D.N
NORWEGIAN.																			
Bergen	29.61	752.2	29.68	753.8	50.7	10.4	93	sw.	18	8			10			0.228	5.8	raining	
Brono	29.61	752.0	29.65	753.0	44.2	6.8	70	sw.			4		9			0.185	4.7		
Christiania	29.71	754.7	29.86	758.5	42.3	5.7	96	nw.	2	1			10					light rain	
Gjæsvær	29.45	747.9	29.47	748.5	34.9	1.6		sse.			6		10						
Lodingen	29.56	750.7	29.60	751.9	42.6	5.9	78	nw.			2		4			0.051	1.3		
PORTUGUESE.																			
Angra, Azores					63.1	17.3	81	wsw.	5.0	2.5			2			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.74	755.3	29.82	757.4	69.4	20.8	75	sw.	3.8	1.7			7			0.354	9.0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.08	753.8	30.01	762.3	63.1	17.3	87	ese.	4.3	1.9			10			0	0		The Staff.
Ponta Delgada, Azores	29.83	757.0	29.90	759.4	68.7	20.4	71	w.	3.1	1.4			4			0.299	7.6		
Saint Paul de Loando	29.74	755.3	29.94	760.4	77.0	25.0	92	wnw.	0.7	0.3			10			0	0		
San Salvador, Congo	28.69	713.4	29.90	759.4	84.6	29.2	50	nw.			2		10			0	0		
Serra da Estrella	25.30	642.6	30.05	763.3	46.8	8.2	100	se.	9.4	4.2			10			0.118	3.0	foggy	
RUSSIAN.																			
Akmolinski	29.19	741.5	30.33	770.3	31.8	— 0.1	69	sse.	7	3		1 cs	0			0	0		Major K. Lasarew.
Archangel	29.41	747.1	29.43	747.6	34.2	1.2	92	wnw.	18	8			10			0.134	3.4	light snow	Capt. Sseliwerstow
Ashurada	30.37	771.4	30.28	769.0	66.0	18.9	62	n.	9	4		0	2 k			0	0		
Astrakhan	30.33	770.3	30.25	768.4	49.1	9.5	92	w.	7	3			10			0	0	h'vy clouds	Capt. Wisganow.
Baku	30.32	770.0	30.27	768.8	64.2	17.9	80	ese.	9	4		2 ck	0			0	0		
Barnaul	29.99	761.7	30.51	775.0	36.7	2.6	87	calm	0	0			10			inap.	inap.		Meteorological Obs'y
Bielosersk	29.30	744.3	29.79	756.6	31.5	— 0.3	81	wnw.	10	7			10 ks			blank	blank		
Dorpat	29.91	759.7	30.16	766.0	47.8	8.8	71	w.	9	4		0	0			0	0		Observatory.
Ekaterinburg	28.63	727.2	29.60	751.9	37.2	2.9	88	s.	13	6			10			0.004	0.1	raining	Meteorological Obs'y.
Elissawetgrad	29.98	761.4	30.44	773.1	52.7	11.5	86	nw.	2	1			10 n			0	0		
Irkutsk	28.45	722.7	30.15	765.9	33.3	0.7	87	calm			0		8			0	0		
Kasalinsk					61.0	16.6	35	s.	0	0		cs	1 s						
Kasan	29.34	745.2	29.91	752.1	45.0	7.2	82	sw.	18	8			10 n			0	0		Observatory.
Kem	29.60	751.8	29.65	753.1	32.4	0.2	81	w.	13	6			10 ks			0	0		
Kertch	30.32	770.0	30.34	770.6	56.7	13.7	93	n.	7	3		0	0			0	0		Lagorio & Sustyrea.
Kieff	29.72	754.8	30.36	771.1	54.9	12.7	42	wnw.	9	4		0	0			0	0		Observatory.
Koslov	29.56	750.7	30.07	763.7	48.0	8.9	70	w.	22	10		0	5 k			0	0		
Libau	30.24	768.1	30.26	768.7	50.0	10.0	79	sw.	11	5			2			0	0		E. Quaas.
Lugan	30.06	763.4	30.26	768.9	57.6	14.2	43	w.	13	6			1			0	0		Meteorological Obs'y.
Moscow	29.49	749.0	29.97	761.2	47.8	8.8	86	wnw.	11.2	5.0		0	6 ks			blank	blank		Meteorological Obs'y
Nikolaiev	30.34	770.5	30.41	772.3	62.1	16.7	68	calm	0	0		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mets. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	30.01	762.2	30.10	764.4	27.7	− 2.4	85	calm	0	0		0	0						Iwanow.
Pekin, China	30.11	764.7	30.25	768.3	48.6	9.2	87	se.	2.2	1.0		0	4 ks			0	0		Physical Observatory.
Petro-Alexandrovsk	29.90	759.4	30.25	768.3	62.2	16.8	35	calm	0	0		0	0			0	0		
Petrozavodsk	29.58	751.2	29.78	756.4	31.6	− 0.2	81	nw.	27	12			10			0.004	0.1		Dr. Bergmann.
Pinsk	29.90	759.4	30.40	772.2	52.2	11.2	68	wnw.	4	2		0	0			0	0		
Poti	30.17	766.4	30.21	767.2	71.4	21.9	87	s.	4	2		0	7 ks			0	0		
St. Petersburg	29.95	760.8	29.98	761.4	42.8	6.0	81	wnw.	18	8		0	5 ks			0.059	1.5		Central Physical Obs'y.
Samarkand	27.80	706.1	30.28	769.0	56.7	13.7	42	calm	0	0		1 c	0			0	0		
Semipalatinsk	29.89	759.3	30.59	776.9	34.3	1.3	54	w.	4	2			10			0	0		Major Lasarew
Sevastopol	30.10	764.5	30.31	769.8	68.9	20.5	59	sw.	7	3		0	1 s			0	0		
Staroi Bykhov	29.75	755.7	30.32	770.0	50.2	10.1	67	sw.	9	4		0	4 k			0	0	light clouds	
Tashkend Laboratory	28.58	726.0	30.25	768.4	58.3	14.6	55	calm	0	0		0	6 ks			0	0	light clouds	Torch, A. M
Tiflis	28.81	731.7	30.19	766.8	71.2	21.8	44	ese.	2	1		0	1 k			0	0		Physical Observatory.
Vernoe	27.73	704.3	30.30	769.7	42.6	5.9	61	ne.	2	1		1 c	0			0	0		
Viatka	28.65	727.8	29.28	743.7	41.5	5.3	89	w.	4	2			9			0.039	1.0		
Warsaw	29.91	759.6	30.33	770.4	57.4	14.1	84	ese.	7	3		0	3 ks			0.004	0.1		Astronomical Obs'y.
Yeniseisk	30.24	768.0	30.55	775.9	19.4	− 7.0	80	wnw.	7	3			10			blank	blank		M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.01	762.2	30.11	764.9	69.1	20.6	82	s.	4.9	2.2		0	7			0	0		Antonio Molins.
Bilbao, Met. Obs'y	30.01	762.3	30.07	763.8	74.7	23.7	49	se.	2.4	1.1		3	2	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.12	688.9	30.02	762.5	64.8	18.2	43	sw.	3.1	1.4		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.1	30.08	764.0	64.2	17.9	58	sw	2.9	1.3		0	8			0.012	0.3	cloudy	The Staff.
Murcia, Met. Obs'y	29.97	761.2	30.11	764.7	66.9	19.4	82	ssw.	2.0	0.9				e.		0.028	0.7	misty	Olayo Diaz, Director.
Oviedo	29.27	743.4	30.03	762.7	57.2	14.0	90	s.	6.9	3.1		4 n	4 n	s.	s.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.07	738.4	29.95	760.6	68.0	20.0	67	se.	2.5	1.1			7			0.059	1.5	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.87	758.8	29.91	760.4	74.4	23.6	90	se.	0.4	0.2		0	1 k		ene.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	757.8	29.89	759.2	80.0	26.7	72	une.	8.8	3.9		4 cs	3 ks		ne.	0.071	1.8	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.3	30.03	762.7	71.2	21.8	70	se.	12.2	5.5		5	5	se.	se.	0.02	0.5		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.84	758.0	29.93	760.3	79.9	26.6	82	se	5.4	2.4		0	2 k		se.	0.039	1.0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.72	754.8	29.76	755.8	35.6	2.0	89	sw.			2		0			0	0		
Umea	29.81	757.1	29.86	758.4	44.2	6.8	68	wnw.			2		1			0.114	2.9		
Hernosand	29.86	758.4	29.91	759.7	42.8	6.0	67	calm			0		10			0.016	0.4		
Stockholm	29.92	760.0	30.10	764.5	46.4	8.0	82	wsw.			2		10			0	0		
Wisby	30.06	763.4	30.11	764.9	47.8	8.8	81	sw.			4		10			0	0		
Sub-series.																			
Upsala	29.95	760.8	30.04	763.0	43.9	6.6	90	ssw.	8.7	3.9			9	w.		0.039	1.0		H.H.Hildebrandsson
Swiss.																			
Geneva	28.80	731.5	30.23	767.9	52.2	11.2	85	n.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.21	767.4	64.9	18.3	78	ne.	12	5.5			10		ne.	0	0		The Observatory.
Valona			30.19?	766.7?	67.6	19.8		ne.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	80.2	26.8	67	nw.			1		2 k		s.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
United States.																			
Albany, New York	30.02	762.5	30.10	764.5	48.5	9.2	74	ne.	2	0.9			10 s			0.13	3.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.44	747.8	30.11	764.8	39	3.9	100	s.	1	0.4		0	7 s			0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.76	628.9	29.66	753.4	44.2	6.8	71	se.	6	2.7			10 s		ne.	0	0	cloudy	J. B. Turton.
Assinnaboine, Ft., Montana	26.68	677.7	29.60	751.8	32	0.0	62	sw.	12	5.4		0	5 s		w.	0.01	0.3	fair	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.10	764.5	51.0	10.6	86	se.	4	1.8		7 cs	sk.	nw.		0	0	fair	Edward A. Beale.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	46.2	7.9	93	calm	0	0		7 ck	fg.			0.22	5.6	fair	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	55.6	13.1	90	calm	0	0		5ck;cs	3 s;fg	w.		0	0	cloudy	Louis Duane.
Baltimore, Maryland	30.09	764.3	30.14	765.5	51.7	10.9	77	nw.	2	0.9			10 c;fg		nw.	0	0	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.06	763.5	30.08	764.0	46.7	8.2	88	nw.	6	2.7		7 ck	fg			0.13	3.3	fair	G. A. Hill.
Bennett, Fort, Dakota	28.04	712.2	29.66	753.4	37.5	3.1	96	se.	2	0.9			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	26.72	678.7	29.63	752.6	33	0.6	62	calm	0	0			9 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.80	706.1	29.68	753.9	38	3.3	92	s.	11	4.9			10 s			0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	30.03	762.7	30.06	763.5	44.0	6.7	88	n.	10	4.5		0	0			0.02	0.5	clear	J. T. Eiker.
Boise City, Idaho	27.00	685.8	29.86	758.4	38	3.3	92	e.	2	0.9			10 s			0.70	17.8	cloudy	B. E. Light.
Boston, Massachusetts	29.90	759.4	30.06	763.5	41.0	5.0	96	nw.	7	3.1			10s;fg		n.	0.19	4.8	cloudy	O. B. Cole.
Brownsville, Texas	29.76	755.9	29.82	757.4	72.8	22.7	90	se.	4	1.8		0	0			0	0	clear	John McGlone.
Buffalo, New York	29.37	746.0	30.13	765.3	41	5.0	92	ne.	2	0.9		1 ck	sk.	sw.		inap.	inap.	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.52	699.0	29.62	752.3	30	− 1.1	88	calm	0	0		0	9 s		e.	0	0	cloudy	A. Schneider.
Cairo, Illinois	29.65	753.1	30.05	763.3	46.7	8.2	95	se.	6	2.7			10 n		se.	0.17	4.3	light rain	W. H. Ray.
Canby, Fort, Washington Ter	29.22	742.2	29.42	747.3	47.2	8.4	98	s.	32	14.3			10 s		s.	0.50	12.7	cloudy	O. D. Stewart.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	55.0	12.8	74	n.	12	5.4		0	6 s			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.05	763.3	30.08	764.0	51.0	10.6	86	nw.	6	2.7		7 ck	0			0	0	fair	Wm. Bolton.
Cape Mendocino, California	29.12	739.6	29.81	757.2	46	7.8	83	n.	14	6.3		0	fg.		n.	0.28	7.1	clear	J. J. McLean.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	68.5	20.3	97	ne.	3	1.3			fg.			0	0	dense fog	G. W. Davis.
Charleston, S. Carolina	29.95	760.7	30.01	762.2	65.0	18.3	84	e.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.12	765.0	49.0	9.4	82	ne.	4	1.8			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.11	764.8	51.0	10.6	80	e.	1	0.4		4 k	3 ks		w.	inap.	inap.	fair	B. L. Goulding.
Cheyenne, Wyoming	23.68	601.5	29.70	754.4	34.1	1.2	82	s.	1	0.4			10 n			0.10	2.5	light snow	E. McGovern.
Chicago, Illinois	29.33	745.0	30.04	763.0	47.0	8.3	93	sw.	4	1.8			10 s		s.	0.04	1.0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.09	764.3	30.11	764.8	48	8.9	93	nw.	4	1.8		0	2 s;hz			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.12	765.0	49.2	9.6	85	e.	3	1.3		4 cs	0			0	0	fair	L. Dunne.
Cleveland, Ohio	29.38	746.2	30.12	765.0	39.5	4.2	84	s.	4	1.8		0	0			0.03	0.8	clear	J. B. Newlin.
Columbus, Ohio	29.27	743.4	30.13	765.3	44	6.7	93	nw.	2	0.9			10 s			0.03	0.8	cloudy	D. Cuthbertson.
Concho, Fort, Texas	27.87	707.9	29.82	757.4	57.5	14.2	93	s.	8	3.6			10 s			inap.	inap.	threatening	C. E. King.
Custer, Fort, M. T	26.42	671.1	29.66	753.4	33	0.6	81	se.	4	1.8		3 c	3 s		se.	0.02	0.5	cloudy	T. Gibson.
Davenport, Iowa	29.26	743.2	29.92	760.0	46	7.7	83	se.	11	4.9			10 s		se.	0.13	3.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.02	635.5	29.88	758.9	53.5	11.9	84	se.	4	1.8		6 cs	0			0	0	fair	J. Williams.
Dayton, Washington T'y	27.78	705.6	29.57	751.1	38.7	3.7	82	sw.	2	0.9			10 s			inap.	inap.	cloudy	D. Moore.
Deadwood, Dakota	25.00	635.0	29.68	753.9	40.2	4.6	92	calm	0	0		0	hz.			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	48.5	9.2	93	w.	4	1.8		5 ck	hz.			0	0	fair	F. W. Mixer.
Denver, Colorado	24.37	619.0	29.63	752.6	35.0	1.7	72	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.94	735.1	29.86	758.4	45.5	7.5	83	s.	5	2.2			10 n		s.	0.01	0.3	light rain	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.12	765.0	41.0	5.0	73	ne.	4	1.8		3 c	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.06	687.3	29.69	754.1	50	10.0	93	s.	8	3.6		10 cs	0			0	0	cloudy	J. H. Bryce.
Dubuque, Iowa	29.24	742.7	29.96	761.0	45	7.2	81	se.	4	1.8			10 s		se.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.17	740.9	29.93	760.2	43	6.1	74	n.	5	2.2			10 s			0	0	cloudy	N. B. Conger.
Eastport, Maine	29.95	760.7	30.02	762.5	43.5	6.4	75	n.	6	2.7		6ck;cs	3 s	n.		0.45	11.4	cloudy	D. C. Murphy.
Elliott, Fort, Texas	26.95	684.5	29.74	755.4	51	10.6	100	se.	10	4.5			fg.			0	0	dense fog	J. C. Rickli.
El Paso, Texas	26.06	661.9	29.80	756.9	57.5	14.2	69	w.	8	3.6		3 cs	0	w.		0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.39	746.5	30.12	765.0	48	8.9	33	calm	0	0			10 s		w.	0.32	8.1	cloudy	C. A. Shaw.
Escanaba, Michigan	29.39	746.5	30.06	763.5	41.5	5.3	96	n.	7	3.1			10 s		sw.	0.05	1.3	cloudy	George Heathcote.
Galveston, Texas	29.82	757.4	29.86	758.4	70	21.1	94	se.	2	0.9		hz.	2 ks			0.24	6.1	clear	E. O'C. Macinerney
Grand Haven, Michigan	29.37	746.0	30.04	763.0	43.0	6.1	88	e.	5	2.2			10 s			0	0	cloudy	Wm. H. Fallon.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		BAROMETER. Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	WIND. Velocity.		WIND. Force.	CLOUDS. Amount and kind. Upper.	CLOUDS. Amount and kind. Lower.	CLOUDS. Direction. Upper.	CLOUDS. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	24.99	634.7	29.69	754.1	42.3	5.7	58	n.	5	2.2	...	1 ck	1 ks	w.	n.	0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.09	764.3	30.10	764.5	57.0	13.9	93	ne.	3	1.3	...	6 k	3 k	ne.	e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.35	643.9	29.65	753.1	34	1.1	82	sw.	1	0.4	...	...	10 s	...	...	0	0	cloudy	I. H. Jones.
Huron, Dakota	28.26	717.8	29.70	754.4	40	4.4	100	se.	12	5.4	...	...	10 n	...	...	0.04	1.0	light rain	S. W. Glenn.
Indianapolis, Indiana	29.27	743.4	30.07	763.8	44.8	7.1	83	calm	0	0	...	...	10 s	...	...	0	0	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.85	758.2	29.88	758.9	71.2	21.8	98	e.	6	2.7	...	0	2 k	...	s.	0.10	2.5	clear	I. A. Reed.
Jacksonville Florida	30.01	762.2	30.05	763.3	66.0	18.9	100	n.	4	1.8	...	...	fg.	...	...	0	0	dense fog	J. W. Smith.
Keokuk, Iowa	29.24	742.7	29.92	760.0	45.0	7.2	83	se.	11	4.9	...	...	10 s	...	se.	0.04	1.0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.93	760.2	29.95	760.7	78.5	25.0	88	ne.	7	3.1	...	0	2 k	...	ne.	0	0	clear	**A. W. Browne.**
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	58	14.4	74	ne.	7	3.1	...	6 k	0	ne.	...	0	0	fair	**Wesley Blake.**
Knoxville, Tennessee	29.06	738.1	30.10	764.5	46.9	8.3	93	ne.	3	1.3	...	..	10s;sk	...	...	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.91	759.7	47	8.3	68	s.	8	3.6	...	...	10 s	...	...	0	0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.94	735.1	29.84	757.9	46.5	8.1	93	se.	4	1.8	...	...	10n;fg	...	...	0.10	2.5	light rain	**T. S. Outram.**
Lewiston, Idaho	28.75	730.2	29.60	751.8	39.5	4.2	86	ne.	2	0.9	...	0	0	...	...	0.06	1.5	clear	**C. E. Butler.**
Little Rock, Arkansas	29.62	752.3	29.94	760.5	50.0	10.0	93	se.	3	1.3	...	...	10 n	...	...	0.43	10.9	light rain	W. U. Simons.
Los Angeles, California	29.32	744.7	29.72	754.9	50	10.0	93	e.	10	4.5	...	...	10 n	...	se.	1.25	31.7	light rain	T. S. Collins.
Louisville, Kentucky	29.50	749.3	30.07	763.8	42.0	5.6	92	ne.	3	1.3	...	...	sk.	...	...	0	0	dense smoke	L. M. Dev.
Lynchburg, Virginia	29.44	747.8	30.13	765.3	45.0	7.2	76	calm	0	0	...	6 k	0	w.	...	0	0	fair	**Jno. Healy.**
Mackinaw City, Michigan	29.42	747.3	30.09	764.3	43.0	6.1	83	s.	2	0.9	...	...	10 s	...	sw.	0	0	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.11	764.8	30.12	765.0	57.0	13.9	64	n.	7	3.1	...	8cs;ck	0	w.	...	0	0	cloudy	William Daly
Maginnis, Fort, Montana	25.08	637.0	29.62	752.3	36.5	2.5	82	w	12	5.4	...	0	0	...	...	0	0	clear	F. Burke.
Marquette, Michigan	29.33	745.0	30.07	763.8	41.0	5.0	73	calm	0	0	...	...	10 s	...	...	0	0	cloudy	**J. Gilligan.**
Memphis, Tennessee	29.64	752.8	29.98	761.5	49	9.4	100	se.	4	1.8	...	...	10 s	...	...	0.46	11.7	cloudy	**D. T. Flannery.**
Milwaukee, Wisconsin	29.28	743.7	30.04	763.0	45.2	7.3	91	sw.	3	1.3	...	...	10 s	...	sw.	0	0	cloudy	W. Line
Mobile, Alabama	30.00	762.0	30.04	763.0	59	15.0	70	e.	5	2.2	...	4 k	0	nw.	...	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.83	757.7	30.06	763.5	55.5	13.1	90	e.	2	0.9	...	7 cs	0	nw.	...	0.03	0.8	fair	**Geo. E. Franklin.**
Moorhead, Minnesota	28.75	730.2	29.77	756.1	30	−1.1	88	se.	27	12.1	...	0	0	...	...	0	0	clear	**H. Bessant.**
Mt. Washington, N. H.	23.73	602.7	30.07	763.8	30.5	−0.8	100	nw.	2	0.9	...	...	10s;fg	...	...	0.09	2.3	clearing	**S. W. Beall.**
Nashville, Tennessee	29.45	748.0	30.03	762.7	46.0	7.8	96	e.	6	2.7	...	...	10 n	...	w.	0.11	2.8	light rain	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.08	764.0	42.5	5.8	96	n.	2	0.9	...	0	9 k	...	n.	0.04	1.0	cloudy	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	45	7.2	83	ne.	1	0.4	...	0	0	...	...	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	67.0	19.4	84	e.	8	3.6	...	1 c	5 ks	...	s.	0	0	fair	**M. Herman.**
New York, New York	29.91	759.7	30.09	764.3	48.1	8.9	86	calm	0	0	...	0	9s;fg	...	sw.	0.03	0.8	cloudy	**H. J. Penrod.**
Norfolk, Virginia	30.07	763.8	30.10	764.5	54.2	12.3	83	n	1	0.4	...	0	9 s	...	nw.	0	0	cloudy	**Wm. Davis.**
North Platte, Nebraska	26.73	678.9	29.69	754.1	34.6	1.4	85	se.	4	1.8	...	...	10 n	...	...	0.07	1.8	light rain	E. F. Brady.
Olympia, Washington T'y	29.32	744.7	29.36	745.7	44.0	6.7	93	s.	6	2.7	...	...	10 n	...	...	0.16	4.1	light rain	J. Dascomb.
Omaha, Nebraska	28.62	726.9	29.82	757.4	44.8	7.1	100	se.	10	4.5	...	...	10n;fg	...	...	0.07	1.8	light rain	A. Pollak
Oswego, New York	29.77	756.1	30.10	764.5	45.0	7.2	72	n.	6	2.7	...	...	10 s	...	nw.	0.07	1.8	cloudy	J. G. Linsley
Palestine, Texas	29.34	745.2	29.90	759.4	55.5	13.1	96	e.	6	2.7	...	...	10n;fg	...	...	0.11	2.8	light rain	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.04	763.0	58.1	14.5	71	ne.	7	3.1	...	0	2 s	...	w.	0	0	clear	M. McGauran.
Philadelphia, Pa	30.00	762.0	30.10	764.5	48.8	9.3	92	e.	1	0.4	...	6 ck	fg.	...	...	0.03	0.8	fair	T. F. Townsend.
Pike's Peak, Colorado	17.40	442.0	29.68	753.9	14	−10.0	87	sw.	30	13.4	...	0	0	...	...	0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.30	744.2	30.12	765.0	47.0	8.3	93	nw.	2	0.9	...	...	10 s	...	nw.	0.06	1.5	cloudy	G. O. Schaeffer.
Popular River	...	...	...	...	29	−1.7	56	e.	...	...	1	5 cs	0	...	...	0	0	fair	
Port Huron, Michigan	29.40	746.7	30.10	764.5	37.0	2.8	82	calm	0	0	...	0	0	...	...	0	0	clear.	M. H. Perry
Portland, Maine	30.00	762.0	30.05	763.3	46	7.8	83	n.	6	2.7	...	...	10n;fg	...	n.	0.11	2.8	light rain	W. W. Eichelberger.
Portland, Oregon	29.46	748.3	29.53	750.0	45.3	7.4	93	s.	12	5.4	...	...	10 n	...	s.	0.18	4.6	light rain	M. L. Hearne.
Portsmouth, N. C.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	F. P. Chaffee.
Prescott, Arizona	24.51	622.5	29.67	753.6	39.5	4.2	72	sw.	4	1.8	...	...	10 s	...	sw.	0	0	cloudy	N. D. Lane.
Provincetown, Mass	29.99	761.7	30.02	762.5	46.9	8.3	96	n.	10	4.5	...	...	fg.	...	n.	0.06	1.5	dense fog	O. N. Kitchel.
Red Bluff, California	29.46	748.3	29.82	757.4	43	6.1	100	n.	6	2.7	...	...	10 ks	...	s.	0.97	24.6	cloudy	J. R. Williams.
Rio Grande City, Texas	29.63	752.6	29.87	758.7	68.1	20.1	92	calm	0	0	...	...	10 s	...	...	inap.	inap.	cloudy	**Fred. Belford.**
Rochester, N. Y.	29.46	748.3	30.13	765.3	40	4.4	89	w.	5	2.2	...	9 k	sk.	n.	...	0.02	0.5	dense smoke	**E. W. McCann.**
Roseburg, Oregon	29.15	740.4	29.71	754.6	44.2	6.8	80	se.	2	0.9	...	0	8 s	...	sw.	0.40	10.2	cloudy	J. J. Naury.
Sacramento, California	29.74	755.4	29.82	757.4	44.9	7.2	97	s.	2	0.9	...	...	fg.	...	...	0.80	20.3	dense fog	J. A. Barwick
St. Louis, Missouri	29.36	745.7	29.98	761.5	48.0	8.9	93	s.	13	5.8	...	...	10 n	...	s.	0.20	5.1	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.27	743.4	29.30	744.2	23	−5.0	94	w.	31	13.9	...	0	7 s	...	w.	0.06	1.5	fair	**Fred. H. Clarke.**
St. Paul, Minnesota	29.00	736.6	29.87	756.7	41.5	5.3	92	s.	9	4.0	...	...	10 n	...	s.	0.02	0.5	light rain	P. F. Lyons.
St. Vincent, Minnesota	28.86	733.0	29.76	755.9	32	0.0	88	se.	5	2.2	...	0	3 s	...	...	0	0	clear	C. B. Dilley.
Salt Lake City, Utah	25.32	643.1	29.72	754.9	36	2.2	72	se.	2	0.9	...	...	10 ks	...	sw.	0.02	0.5	cloudy	J. Craig.
San Diego, California	29.67	753.6	29.74	755.4	56.5	13.6	93	sw.	14	6.3	...	...	10 n	...	sw.	1.33	33.8	light rain	F. R. Day.
Sanford, Florida	29.96	761.0	30.01	762.2	72.0	22.2	97	ne.	1	0.4	...	0	fg.	...	...	0.01	0.3	clear	**J. B. Marbury.**
Sandusky, Ohio	29.45	748.0	30.14	765.5	39	3.9	89	w.	5	2.2	...	0	fg.	...	...	0.01	0.3	clear	**B. F. Heugh.**
Sandy Hook, New Jersey	30.06	763.5	30.09	764.3	47.0	8.3	100	ne.	6	2.7	...	...	fg.	...	...	0.03	0.8	dense fog	B. A. Blundon
San Francisco, California	29.73	755.1	29.80	756.9	48.0	8.9	81	nw.	8	3.6	...	3 cs	0	n.	...	1.19	30.2	clear	N. Gorom.
Savannah, Georgia	29.99	761.7	30.08	764.0	61	16.1	91	n.	2	0.9	...	0	7 s	...	ne.	0	0	fair	**H. W. Ford.**
Shaw, Fort, Montana	25.91	658.1	29.61	752.1	35	1.7	82	sw.	13	5.8	...	0	0	...	...	0	0	clear	**S. W. Morrison.**
Shreveport, Louisiana	29.64	752.8	29.88	758.9	52.5	11.4	95	s.	1	0.4	...	...	10 s	...	se.	0.11	2.8	cloudy	**E. N. Meekins.**
Sill, Fort, Indian Territory	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. M. Mattingly
Sitka, Alaska	29.20	741.7	29.27	743.4	36.6	2.6	74	e.	9	4.0	...	0	2 ks	...	e.	0.49	12.4	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.40	746.7	29.88	758.9	48.1	8.9	93	e.	4	1.8	...	...	10 s	...	...	0.08	2.0	cloudy	J. B. Campbell.
Smithville North Carolina	30.06	763.5	30.10	764.5	54.0	12.2	86	n.	7	3.1	...	6 cs	0	w.	...	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.54	699.5	29.62	752.3	41	5.3	100	sw.	8	3.6	...	...	10 n	...	...	0.03	0.8	light rain	**John F. Hemenway.**
Springfield, Illinois	29.29	744.0	29.98	761.5	46	7.8	87	se.	8	3.6	...	...	10 s	...	s.	0	0	cloudy	T. B. Jennings.
Stockton, Fort, Texas	26.78	680.2	29.81	757.2	49.0	9.4	80	sw.	1	0.4	...	6 c	0	...	...	0	0	fair	**Louis Dorman.**
Tatoosh Id., Wash. Ter	29.24	742.7	...	...	43.7	6.5	86	nw.	21	9.4	...	0	8 s	...	nw.	0.39	9.9	cloudy	**R. Connor.**
Thomas, Camp, Arizona	27.06	687.3	29.77	756.1	45	7.2	36	w.	...	...	1	0	7 s	...	...	0	0	fair	**R. O. Lord.**
Toledo, Ohio	29.43	747.5	30.13	765.3	40	4.4	82	calm	0	0	...	...	fg.	...	...	0.02	0.5	dense fog	**A. Buell.**
Unalashka, Alaska	29.69	754.1	29.72	754.9	42	5.6	50	sw.	36	16.1	...	0	4 s	...	sw.	0.52	13.2	fair	Samuel Applegate.
Verde, Fort, Arizona	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	**L. B. Montgomery.**
Vicksburg, Mississippi	29.74	755.4	30.00	762.0	54.8	12.7	91	calm	0	0	...	...	10 n	...	nw.	0.31	7.9	light rain	James Kenealy.
Washakie, Fort, Wyoming	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	T. M. Ambler.
Washington, D. C.	30.02	762.5	30.14	765.5	48.0	8.9	84	nw.	2	0.9	...	9 k	0	nw.	...	0	0	cloudy	**T. B. Harrison.**
West Las Animas, Colorado	25.68	652.3	29.61	752.1	28	−2.2	88	sw.	2	0.9	...	0	0	...	...	0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.06	763.5	30.12	765.0	51.0	12.2	80	ne.	5	2.2	...	...	10 s	...	...	0	0	cloudy	Samuel A. Haney.
Yankton, Dakota	28.40	721.3	29.73	755.1	41.6	5.3	98	s.	10	4.5	...	...	10 s	...	...	0.09	2.3	cloudy	**E. H. Thompson.**
Yuma, Arizona	29.61	752.1	29.76	755.9	53.4	11.9	60	ne.	6	2.7	...	0	4 s	...	w.	0	0	fair	W. S. Delano
Sub-series.																			
Bluefields, Nicaragua	...	...	...	...	77	25.0	...	nw	...	...	1	2 c	2 ks	...	nw.	0.01	0.3	fair	**W. H. Jackson.**
Bogota, U. S. C.	21.95	557.6	...	...	51.8	11.0	60	calm	0	0	...	0	5 s	...	w.	0.110	2.8	...	Joaquin Gomez.
Kingston, Jamaica, W. I.	...	...	29.94	760.5	74.6	23.7	97	calm	0	0	...	...	10 n	...	...	1.15	29.2	raining	Robert Johnstone
Paramaribo, S. A.	30.03	762.7	30.03	762.7	85	26.7	74	se.	...	...	3	3 c	4 k	e.	...	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. C.	29.44	747.8	30.00	762.0	77	25.0	89	calm	...	...	0	...	10 ks	...	s.	0.04	1.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	...	...	...	...	75	23.9	89	ne.	...	...	1	...	2 ks	...	ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.08	764.0	30.14	765.5	31.0	−0.6	100	nw.	13	5.8	...	...	10 n	...	nw.	0.10	2.5	raining	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 38° 20′, E. 26° 17′	30.11	764.8	74	23.3	68	nnw.			1		2	sse.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.90	759.4	74.5	23.6	93	wsw.			3		8	wsw.						d. clouds.
H. M. S. Flamingo, N. 41° 32′, W. 64° 05′	29.80	756.9	56	13.3	100	n.			4		2	nne.		2	nne.			d. clouds.
H. M. S. Himalaya, N. 38° 12′, W 46° 30′	29.91	759.7	66	18.9	74	w.			3		6	wnw.		2	wnw.			d. clouds.
H. M. S. Iris, N. 31° 30′, E. 32° 00′	30.01	762.2	77	25.0	86	nne.			3		3							d. clouds.
H. M. S. Inflexible, N. 38° 12′, E. 18° 15′	30.12	765.0	74	23.3	68	e.			2		4	ese.		1	wsw.			d. clouds.
H. M. S. Monarch, Smyrna, Turkey in Asia	30.03	762.7	76	24.4	68	w.			2		4	wsw.						d clouds.
H. M. S. Opal, Mouth of Niger river, W. Africa	29.90	759.4	79	26.1	82	se.			1		7	sse.						d. clouds.
H.P. M. S. Duoro, St. Thomas, W.I.	29.95	760.8	82.4	28.0	85	sse.			2		7	se.		2	se.			d. clouds.
U. S. Navy Yard, Portsmouth, N. H *	30.01	762.2	44	6.7	84	n.	8	3.6			10	n.		0.20	5.1			misty.
U. S. S. Jamestown. N. 39° 00′, W. 73° 11′	30.05	763.3	54	12.2	87	n.			3		8	nne.				mod.	nne.	cloudy.
U. S. S. Kearsarge, Algiers, Africa	30.14	765.5	72	22.2	71	nne.			1		0							clear.
U. S. S. Lancaster, Algiers, Africa	30.14	765.5	70	21.1	95	calm			0		2		calm			sm'h		fair
U. S. S. New Hampshire, Newport, R. I*	30.00	762.0	46	7.8	84	nne.			3		10		nne.			sm'h		cloudy.
U. S. S. Powhatan, Boston, Mass	30.05	763.3	42	5.6	91	wnw.			2		8							cloudy.
U.S. S. Quinnebaug. Leghorn, Italy	30.23	767.8	65	18.3	58	ne.			2		0							clear.
U. S. S. Saratoga, Poughkeepsie, N. Y	30.11	764.8	46	7.8	?	n.			2–3		10		n.	light	light	sm'h	n.	overcast.
U. S. S. Swatara, Port au Prince, Hayti, W.I.	29.93	760.2	80	26.7	78	calm			0		2			0	0	sm'h		fair.
U. S. S. Vandalia, New York, N. Y†	30.09	764.3	47	8.3	92	calm			0		8							fair.
S. S. British Prince, N. 51° 43′, W. 16° 26′ *†	29.83	757.7	57	13.9		ssw.			3		5?		w.	2 h'r	2 h'r	mod.	cf'd	clear?
S. S. British Princess, N. 47° 50′, W. 37° 37′ †	29.59	751.6	53	11.7		ne.			7		7?		ne.	16 h'r	16 h'r	high	ne.	clear.?
S. S. Lord Gough, N. 42° 23′, W. 62° 55′	29.75	755.6	52	11.1		ne.			4		10		ne.	5 h'r	5 h'r	sm'h		overcast.
S. S. Ohio, N. 46° 14′, W. 48° 44′ †	30.05	763.3	50	10.0	51	w.			2		8		w.	0	0	sm'h	w.	cloudy.
S. S. Prussian, Glasgow, Scotland			53	11.7		wsw.			4		3		sw.	3 h'r	3 h'r			clear
S. S. Scandinavian, N. 53° 41′, W. 3° 48′*	30.06	763.5	54	12.2		w.				10 c	0	calm		0	0	light	w.	d. clouds.
S. S. Alvo, Kingston, Jamaica, W. I.	29.86	758.4	81	27.2		e.			5–6		10		ene.	5 h'r	5 h'r			dull.
S. S. Ailsa, Colon, U.S.C			78	25.6	100	e			2		2		e.	1 h'r	1 h'r	sm'h		fine.
S. S. Avilla, Jan Juan, Porto Rico, W.I.			83	28.3		ene.			1		3		ene.	0	0	sm'h		
S. S. Furnesia, Liverpool, Eng			64	17.8	83	calm			0		10		calm	0	0			cloudy.
S.S. Ethiopia' N. 55° 34′, W. 12° 30′†	29.87	758.7	51	10.6	79	sw.			6		7		wnw.	0	0	4	wsw.	d. clouds.
S. S. Llandaff City, N. 39° 58′ W. 71° 24′†	30.10	764.5	45	7.2		nnw.			5		8		n.	0	0	mod.		cloudy.
S. S. Cephalonia, N. 42° 47′, W. 63° 00′	29.81	757.2	53	11.7	100	ne.			4		10		ne.	4 h'r	4 h'r	mod.	e.	raining.
S. S. Pavonia, N. 41° 16′, W. 57° 10′*	29.80	756.9	65	18.3	89	ese.			7		10			5 h'r	5 h'r	long	se.	
S. S. Scythia, N. 44° 58′, W. 48° 16′	30.07	763.8	50	10.0	100	nnw.			2		2		nw.	3 h'r	3 h'r	mod.	ne.	clear.
S. S. Samaria, N. 48° 35′, W. 31° 40′ *	29.02	737.1	59	15.0		nnw.			6		10			18 h'r	18 h'r	h'vy	sse.	cloudy.
S. S. Canada, N. 43° 32′, W. 59° 02′ *	29.78	756.4	55.4	13		e.			5					0	0	r'gh	e.	hazy.
S. S. France, N. 45° 55′, W. 46° 02′ *†	30.10	764.5	42.8	6		nw.			3		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. Olinde Rodrignes, N. 10° 55′ W. 67° 55′			83	28.3		e.			2		3		ene.	0	0	sm'h		clear.
S. S. Bohemia, N. 42° 16′, W. 61° 06′						nne.			4		9		nne.	0	0	sm'h	nne.	overcast.
S. S. Frisia, N. 49° 49′, W. 5° 03′	30.05	763.3	54	12.2		w.			1–2		8		w.	0	0	short	w.	fair.
S. S. Gellert, N. 48° 06′, W. 41° 12′			52	11.1	60	nw.			3		10?		ese.	10 h'r	10 h'r	high	nnw.	fair?
S. S. Lessing, N. 40° 57′. W. 63° 26′			62	16.7		ne.			4		7		nne.	11 h'r	11 h'r	long	ne.	rainy.
S. S. Westphalia, New York, N.Y	30.05	763.3	47	8.3	85	n.			1		2?		n.	8 h'r	8 h'r			misty.
S. S. Rhaetia, N. 50° 41′, W. 29° 20′	29.11	739.5	53	11.7	93	ese.			6		10			10 h'r	10 h'r	mod.	se.	heavy rain.
S. S. Nessmore, N. 51° 03′, W. 17° 00′	29.81	757.2	55	12.8	93	s.			5		10		s.	0	0	r'gh	w.	cloudy.
S. S. Virginian, N. 51° 02′, W. 14° 24′*	29.92	760.0	56	13.3		ssw.			4				ssw.	0	0	sm'h		fair.
S. S. Archimedes, N. 10° 33′, W. 27° 32′	29.98	761.5				ene.			3		2		ene.	0	0	light	con.	fine.
S. S. Hevelius, Liverpool, Eng†	30.04	763.0	56	13.3		s.			4				ssw.	0	0			foggy
S. S. Sirius, N. 19° 50′, W. 57° 25′	29.99	761.7				ene.			4		1		ene.	0	0	long	ene.	clear.
S. S. Rio Grande, Galveston, Texas	29.92	760.0	72	22.2		sse.			1		3		sw.	2 h'r	2 h'r			light clouds.
S. S. Chalmette, N. 25° 15′, W. 83° 00′ †	29.95	760.7	79	26.1		ne.			5		6		ne.	0	0	mod.	ne.	fair.
S. S. Lone Star, N. 36° 45′, W. 74° 50′			58	14.4		n.			3		7		n.	0	0	small	ne.	fair.
S. S. Alleghany, Norfolk, Va			56	13.3		n.			2		2		e.	0	0			fair.
S. S. Archimede, N. 36° 47′ W. 25° 29′†	29.89	759.2	74	23.3		nne.			4		3		nne.	0	0	mod.	nne.	clear.
S. S. City of Washington, Vera Cruz, Mexico*†	29.90	759.4	84	28.9		se.			2		5		e.	0	c	sm'h		fine.
S. S. Cienfuegos, St. Jago, Cuba W. I*	29.97	761.2	76	24.4		se.			5		10		se.	20 h'r	20 h'r			rain squalls
S. S. Grecian, Greenock, Scotland	29.94	760.5	51	10.6	86	sw.			3		4		sw.	2 h'r	2 h'r			fair.
S. S. England, N. 47° 52′, W. 36° 34′	29.45	748 0				ne.			8		10		ne.	sq'll's	sq'll s	h'vy	ne.	squally.
S. S. Erin, N. 41° 20′, W. 64° 14′			54	12.2		nne.			6		10		n.	7 h'r	7 h'r	mod	ne.	misty.
S. S. Holland, N. 41° 06′, W. 60° 23′	29.73	755.1	64	17.8		nne.			3		10			3 h'r	3 h'r	mod.	ene.	raining.
S. S. The Queen, N. 41° 52′, W. 60° 48′			55	12.8		w.			1		10		calm	8 h'r	8 h'r	mod.	ne.	rainy.
S. S. America, N. 48° 05′ W. 29° 00′	29.29	744.0	56.0	13.3	94	ssw.			8		10		ssw.	9 h'r	9 h'r	high	ssw.	cloudy.
S. S. Donau, N. 48° 59′, W. 29° 57′	29.19	741.4				sse.			7		10		sse.	14 h'r	14 h'r	high	sse.	raining.
S. S. Elbe, N. 44° 31′ W. 54° 50′	30.03	762.8	48.2	9.0	86	se.			4		10		s.	0	0	long	ese.	covered.
S. S. Hermann, N. 49° 35′, W. 7° 50′			59.9	15.5	100	ssw.			3		2		ssw.	0	0	mod.	ssw.	clear.
S. S. Orinoco, N. 37° 02′. W. 69° 58′ †	30.08	764.0	66	18.9		n.			4		5		nne.	1 h'r	1 h'r	mod.	nne.	fair.
S. S. Main, N. 50° 07′, W. 29° 40′	29.14	740.1	53.6	12.0		se.			4		7		s.	14 h'r	14 h'r	long	s.	raining.
S. S. Oder, N. 40° 13′, W. 73° 07′	30.08	764.0	49.1	9.5		n.			2–3		7		nw.	3 h'r	3 h'r	sm'h	nne.	misty.
S. S. Ohio, N. 37° 45′, W. 71° 16′	30.09	764.3				nne.			5		8		nne.	0	0	mod.	nne.	cloudy.
S. S. Rhein, N. 50° 00′ W. 10° 51′	29.98	761.5				ne.			4		5		ne.	2 h'r	2 h'r	mod	ne.	raining.
S. S. Strassburg, off Wiser Light, Germany	30.12	765.0	52.0	11.1	90	calm			0		5		calm	0	0			hazy.
S. S. Weser, N. 40° 58′ W. 50° 23′	30.10	764.5	51.8	11.0		e.			3		8		e.	½ h'r	½ h'r	mod.	e.	cloudy.
S. S. City of Augusta, New York, N. Y						e.			2		10		se.					threatening.
S. S. Muriel, N. 33° 40′. W. 70° 52′			70	21.1		nw.			3		0			0	0	mod.	e.	clear.
S. S. Rhynland, N. 48° 45′, W. 38° 28′	29.63	752.6	51	10.6		nne.			6		7		n.	8 h'r	8 h'r	mod.	n.	squally.
S. S. Pennland, Antwerp, Belgium			56	13.3	87	sse.			2		10		s.	0	0			cloudy.
S. S. Switzerland, N. 49° 36′, W. 35° 23′						nnw.			3		5		nnw.	0	0	r'gh	n.	fair.
S. S. Vaderland, N. 40° 49′, W. 64° 50′			61	16.1		ene.			4		10		e.	6 h'r	6 h'r	mod.	ne.	overcast.
S.S. Waesland, New York N. Y	30.08	764.0	49	9.4		ne.			2		8		ne	2 h'r	2 h'r			cloudy.
S. S. P. Caland, N. 49° 19′, W. 35° 20′	29.39	746.5	49.3	9.6	82	nne.			0		8		ne.			5	n.	cloudy.
S. S. Schiedam, N. 41° 07′, W. 65° 33′	29.82	757.4	58.8	14.9	91	n.			5		8		n.	11 h'r	11h'r	long	nne.	cloudy.
S. S. Zaandam, Amsterdam, Holland			58.3	14.6	86	calm			0		7		e.	0	0			fair.
S. S. Caracas, Curacoa, W. I*†	29.91	759.7	84	28.9	85	e.			3		2		ese.	0	0	sm'h		clear.
S. S. W. A. Scholten, N. 49° 39′, W. 18° 42′	29.96	761.0	55.4	13.0	82	s.			4		7		sse	1 h'r	1 h'r			
S. S. State of Indiana, N. 41° 26′, W. 63° 42′			55	12.8		n.			4		6		ne.	10 h'r	10 h'r		e.	fine.
S. S. State of Alabama, N. 37° 58′, W. 40° 41′*†	29.75	755.6	67	19.4		n.			3		3		n.	0	0	r'gh	n.	clear.
S. S. Thingvalla, N. 58° 23′, E. 0° 14′						w.			2		2		w.	2 h'r	2 h'r	cross	w.	clear.
S. S. Romano, N. 47° 00′, W. 17° 54′			58	14.4		s.			4		4		s.	0	0	sm'h		clear.
S. S. Salerno, Boston, Mass†	30.05	763.3	42	5.6		n.			2		10		ne.	0.3	8.	sm'h		raining.
S. S. Dominion, N. 56° 09′, W. 13° 10′*†	29.80	756.9	49	9.4		sw.			6		8		sw.			rg'h	sw.	cloudy.
S. S. Oregon, N. 50° 39′, W. 58° 26′	30.01	762.2	36	2.2		ne.			2		6		ne.			mod.	ne.	fine.
S. S. Quebec, Liverpool, Eng			54	12.2		s.			3		10		s.	0	0			cloudy.
S. S. Texas, N. 37° 19′, W. 20° 57′*†	30.02	762.5	66	18.9	79	nnw.			6		2?		nw.	0	0	mod.	sw.	cloudy.?
S. S. Olbers, N. 46° 02′ W. 41° 42′	29.80	756.9	53.5	11.9	97	nnw.			8		8		nnw.	1 h'r	1 h'r	high	var.	squally.
S. S. Daniel Steinmann, N. 45° 22′, W. 50° 54′ †	30.09	764.3	48	8.9		sw.			1		0			0	0	h'vy	ene.	clear.
S. S. Plantyn, N. 49° 06′, W. 35° 24′	29.40	746.7							6		5		wnw.	3½ hr	3½ hr	cross	n.	
S. S. Celtic, N. 50° 33′, W, 30° 12′			56	13.3		e.			5		10		ne.	4 h'r	4 h'r	mod.	n.	raining.
S. S. Iowa, N. 48° 03′, W. 43° 40 †	29.86	758.4	44	6.7		wnw.			5		5		wnw.	4 h'r	4 h'r	mod.	wnw.	fair.
S. S. Assyrian Monarch, N. 49° 34′, W. 8° 17′	30.08	764.0				sse.			2		2		se.	6 h'r	6 h'r	sm'h		clear.
Bk. Arda, N. 20° 10′, W. 63° 43′						e.			2		4		e.	0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.31	769.9	49	9.4	100	se.			2		2		se.	0	0			clear.
Bg. Abbie Clifford, St. Pierre, Martinique†	29.95	760.7	80	26.7		calm			0		4		e.	3 h'r	3 h'r			showery.
Schr. Arthur Burton, Charleston, S. C.†	30.07	763.8				nne.			1		2		nne.	0	0	sm'h		clear.
Schr. Abbie H. Gheen, off Wolf Trap, Va †	30.15	765.8	58	14.4		n.			3									fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
S. S. Antonio Lopez, N. 38° 53′, E. 0° 18′*	30.14	765.5	67.5	19.7	87	ese.			2		10			0	0	sm'h		cloudy.
Bg. Alcira, N. 11° 00′, W. 71° 40′	29.94	760.5	84	28.9		ene.			2		8		se.	0	0	cross	nne.	hazy.
Bgt. Achsah, N. 40° 23′, W. 65° 09′†	29.76	755.9	66	18.9		n.			3		5		nnw.	2 h'r	2 h'r	long	n.	fair.
Schr. Adda Doane, Port Spain, Trinidad *†	29.92	760.0				calm			0		2		se.	0	0	sm'h		clear.
Bg. Belle of the Bay, N. 29° 19′. W. 88° 32′						e.			2		3		e.	0	0	mod.	ne.	clear
Schr. Clotilde, N. 23° 08′, W. 95° 19′†	29.93	760.2	84	28.9		se.			5		2		sse.	0	0	sm'h	sse.	clear.
Schr. C. R. Flint, N. 16° 18′, W. 71° 32′†	30.01	762.2	84	28.9		e.			3		4		ese.	0	0	mod.	ene.	fair.
S. Carondelet, N. 32° 26′, W. 45° 54′*†	30.08	764.0				n.			3		2		nnw.	6 h'r	6 h'r	sm'h	nw.	clear.
S. David Stewart, Chesapeake Bay			68	20.0		calm			0		5		ne.					
S. E. J. Spicer, New York, N. Y.	30.07	763.8	49	9.4	93	nnw.			1		5		nw.	0	0			fair.
Bk. E. D. Bigelow, N. 25° 46′, W. 90° 21′ †	29.92	760.0	83	28.3		se.			3		4		sse.	0	0	sm'h		fine.
U. S. Fish Com S.S. Fish Hawk, off Fenwick Id., Del.†	30.13	765.3	58	14.4	88	nw.			2		3		n.	0.03	0.8			clear.
Bk. Galeon, N. 29° 33′, W. 73° 25′ †	29.98	761.5	74	23.3		n.			3		1		n.	light	light	sm'h	nnw.	blue sky
Bk. Hattie G. McFarland, N. 13° 20′, W. 59° 20′†	29.99	761.7	82	27.8		ese.			2		8		se.	2 h'r	2 h'r	long	sse.	fair.
S. Hedwig, N. 36° 48′, W. 73° 38′	30.09	764.3	57.0	13.9	81	nnw.			5		6		var.	0	0	2	n.	fine.
Bk. Heinrich & Tonio, N. 44° 20′, W. 36° 30′†	29.49	749.0	59	15.0		nnw.			7		8		nnw.	4 h'r	4 h'r	high	n.	threatening.
Schr. Isabel Alberto, N. 33° 39′, W. 76° 00′ †	30.13	765.3				ne.			2		8		e.	light	light	mod.	ne.	
Schr. Jennie N. Huddell, N. 35° 20′, W. 75° 08′†	30.10	764.5	62	16.7	72	nne.			1		5		n.	0	0	light	ne.	fair.
Bg. John Wesley, N. 7° 06′, W. 42° 32′			83	28.3		ne.			2		3		ne.	0	0	long	ne	clear
Bk. John H. Pearson, N. 18° 57′, W. 36° 38′						ene.			4				ene.	0	0	long	n.	clear.
Schr. John Bracewell, Portsmouth, N. H.†	30.04	763.0				ne.			1		10		ne.	4 h'r	4 h'r			cloudy.
Bg. Josefa, N. 35° 20′, W. 70° 22′ †	30.09	764.3				wnw.			5		7		wnw.	6 h'r	6 h'r	r'gh	w.	cloudy.
Bkt. John Balzley, N. 37° 25′, W. 52° 44′*†	30.02	762.5				ese.			4		8		s.	0	0	long	ne.	cloudy.
Bg. Lilian, N. 37° 01′, W. 75° 00′†	30.08	764.0	57	13.9		n.			1		5			0	0	sm'h	n.	fair.
Bg. L. & W. Armstrong, N. 30° 57′, W. 66° 56′ *†	29.96	761.0				w.			3		5		sw.	4 h'r	4 h'r	sm'h	sw.	clear.
S. S. Madrid, N. 41° 52′, W. 9° 30′†	29.96	761.0	63	17.2	89	ne.			2		4		nw.	0	0	mod.	nnw.	fair.
S. S. Mendoza, N. 13° 13′, W. 5° 59′						se.			1				se.	4 h'r	4 h'r	sm'h	se.	clear.
Bk. Matthias, N. 48° 02′, W. 19° 48′*†	29.88	758.9	58.0	14.4		sse.			6		8		se.	0	0	4	var.	threatening
Schr. Norena, Humacao, Porto Rico						ene.			2		3		e.	3 h'r	3 h'r			showery.
Bk. National Eagle, N. 37° 22′, W 0° 05′						wsw.			2		5†		w.	0	0	mod.	w.	clear.?
Schr. Rollin Sanford, Key West, Fla.†	29.97	761.2				ene.			4		5		e.	0	0			fair.
Bg. Rising Sun, San Juan, Porto Rico †	29.98	761.5	82	27.8												light	sse.	clear
Bk. Rosalie, N. 0° 38′, W. 31° 39′*†	29.92	760.0				sse.			4		0			0	0			
Bk. Saga, N. 53° 46′, E. 3° 00′*†	29.98	761.5	57	13.9		var.			3		7		w.	rain	rain			fair.
S. Salisbury, N. 36° 09′, E. 15° 02′	30.03	762.8	73.2	22.9	70	calm			0		4 k		ne.	1 h'r	1 h'r	long	e.	fair.
Bgt. Sunlight, N. 25° 46′, W. 59° 32′†	30.08	764.0				se.			2		2		sse.	½ h'r	½ h'r	mod.	sse.	clear.
Bk. Samuel B. Hale, N. 8° 13′, W. 27° 10′						ese.			3				ese.	0	0	short	nne.	hazy.
Bk. Sunbeam, Rotterdam, Holland †	30.06	763.5	59	15.0	82	wnw.			2		3		s.	0	0			fair.
Bk. Scud, N. 14° 34′, W. 62° 45′*†	29.93	760.2	86	30.0		e.			5		7		e.	0	0	short	ne.	fine.
S. St. Francis, N. 23° 30′, W. 39° 00′			77	25.0		ne.			2		3		e.	0	0	mod.	ne.	fair.
Bk. St. Lawrence, N. 22° 00′, W. 62° 23′ *†	29.95	760.7				ese.			4				ese.			mod.	ese.	fine.
Bk. Southern Belle, N. 27° 30′, W. 34° 00′†	29.95	760.7	70	21.1		var.			2–3		5		w	sh'rs	sh'rs	mod.	ne.	fair.
Bk. Tuck Sing, N. 35° 25′, W. 71° 49′ *†	30.08	764.0				nnw.			4		8		nw.	2 h'r	2 h'r	mod.	nw.	fine.
Schr. Walter L. Plummer, N. 20° 37′, W. 65° 54′*†	30.00	762.0				ese.			3		2		se.			mod.	ese.	clear.
Bk. Pilgrim, N. 11° 14′, W. 43° 45′ *†	30.00	762.0				ne.			4		5		ene.	3 h'r	3 h'r	mod.	ne.	fair.
Bk. Achille F, N. 5° —′, W. 46° 45′ †	29.95	760.7	82	27.8		ese.			2		1		sse.	0	0	light	s	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.68	753 9	63	17.2	97	s.			2		9	sw.						gloomy
H. M. S. Boadicea, Angra Penguena, Namaqualand	30.10	764.5	63	17.2	100	w.			1		0							blue sky
H. M. S. Orontes, S. 31° 22′. E. 16° 33′	30.02	762.5	63.5	17.5	91	wnw.			5		6	wnw.				5	nw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.87	758.7	63	17.2	92	s.			2		10							overcast.
U. S. S. Brooklyn, S. 34° 58′. E. 2° 26′ *	30.23	767.8	55	12.8	81	ese.	9	4.0			10		ese.	0	0	long	ese.	cloudy.
U. S. S. Nipsic, S. 35° 10′, W. 57° 05′ *	29.77	756.1	62	16.7	94	ssw.			2		10					sm'h		cloudy
S. S. Rosse, S. 13° 02′, W. 35° 21 *	30.04	763.0	80	26.7		e.			4		0							clear.
S. S. Teniers S. 17° 12′, W. 38° 12′	30.05	763.3	78.2	25.7	86	ne.			4	cs	6 k			0.05	1.3	3	ene	showery.
Bk. Alpheus Marshall, S. 31° 43′, W 18° 44′ *†	29.98	761.5	63	17.2	83	s.			3		7		sw.	0	0	mod.	sw.	fair.
Bk. Bore, S. 20° 44′, W. 1° 40′*†	30.53	775.4	70	21.1		ne.			2		3		ne.	0	0	sm'h	se.	fair.
Bk. Ceylon, S. 12° 29′, W. 35° 07′ †	30.12	765.0	82	27.8	83	e.			4		4		e.	0	0	long	ese.	clear.
S. Dynomene, S. 8° 10′, W. 32° 50′	30.00	762.0	79	20.1	91	se.			3		3			0	0	mod.	ese.	blue sky.
S. David Crocket, S. 3° 23′, W. 36° 33′ *	29.94	760.5	81	27.2	76	se.			4		3		se.	0	0	mod.	se.	d. clouds.
S. Frank N. Thayer, S. 28° 06′, E. 9° 34′ *†	30.11	764.8	65	18.3	81	sw.			1		3 ks		sw.	0	0	mod.	s.	d. clouds
Bkt. Louise Adelaide, S. 27° 50′, W. 43° 30′ †	30.02	762.5				ne.			5		mist.		n.	5 h'r	5 h'r	r'gh	ene.	misty.
Bgt. Willie, Montevideo, Uruguay*†	29.73	755.1	64	17.8		s.			2		10		s.			sm'h		light rain.
Bk. Childwall, S. 41° 11′, W. 5° 57′ *	30.05	763.3	57	13.9		nne.			5		9		nne.	0	0	light	w.	cloudy
District No. 3—North Pacific.																		
H. M. S. Audacious, Kobe Bay, Japan	30.30	769.6	65	18.3	94	ene.			2		4	ne.						d. clouds.
H. M. S. Champion, N. 4° 10′. E. 100° 20′	29.89	759.2	82	27.8	87	n.			3		9					3	ne.	raining.
H. M. S. Flying Fish, Shanghai, China	30.23	767.8	64	17.8	94	sw.			1		10							drizzling.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.86	758.4	77.7	25.4	86	nw.			1		0							blue sky.
H. P. M. S. Tamega, Macao, China	30.12	765.1	79.7	26.5	76	ne.			2		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan	30.52	775.2	56.5	13.6	81	calm			0		10			light	light			gloomy.
U. S. S. Essex, Nagasaki, Japan	30.24	768.1	68	20.0	79	calm			0		8							cloudy
U. S. S. Hartford, Panama, Panama*	29.83	757.7	78	25.6	95	nne.			2		2			0	0			clear.
U. S. S. Juniata, Canton, China	30.14	765.5	74	23.3	86	n.			2		0			0	0			clear.
U. S. S. Monocacy, N. 36° 20′, E 125° 25′	30.25	768.3	57	13.9	87	sse.			2		10		calm			sm'h		cloudy.
U. S. S. Pensacola, Kobe, Japan			66	18.9	45	ne.			2		10			0	0			cloudy.
U. S. S. Ranger, N. 30° 27′, W. 118° 45′	29.89	759 2	63	17.2	78	sw.			5–7		5			0	0			fair.
U. S. S. Richmond, Kobe, Japan	30.36	771.1	64	17.8	58	ne.			2		8		ne.	0	0			cloudy.
S. S. City of Chester, Eureka, Cal.†	29.89	759 2	52	11.1	79	calm			0									overcast.
S. S. Oregon, San Francisco, Cal.†	29.83	757.7	50	10.0	72	calm			0		8		nnw.					hazy.
S. S. Willametta, N. 42° 48′, W. 124° 56′†	29.71	754.6	57	13.9	81	ssw.			6		10		sw.	0.08	2.0	high	wnw.	rainy.
S. S. Ancon, Point Duma, Cal.†	29.68	753.9	50	13.3	87	wnw.			5		0			8 h'r	8 h'r	light	nw.	squally.
S. S. Dakota, N. 37° 50′, W. 122° 35′†	29.79	759.7	50	10.0	79	nw.			2		1		nw.	0	0	mod.	sw.	clear.
S. S. Victoria, N. 44° 28′, W. 124° 40′†	29.70	755.9	50	10.0	93	s.			6		8		ssw.			high	w.	cloudy.
S. S. City of Pekin, N. 42° 08′. E 162° 05′†	30.32	770.1	53	11.7	94	se.			3		10		e.	0	0	light	e.	cloudy.
S. S. City of Sydney, N. 32° 50′, W. 134° 35′*†	30.20	767.1	61	16.1	66	nne.			1		2 k		nne.			h'vy	nnw.	clear.
S. S. City of Rio de Janeiro, N. 36° 08′, W. 133° 20′†	30.19	766.8	64	17.8	73	nw.			4		8		nw.	0	0	mod	nw.	cloudy.
S. S. Colima, Panama, Panama†	29.82	757.4	76	24.4	90	ne.			2		7		n.	0.10	2.5			cloudy.
S. S. San Blas, N. 26° 57′, W. 114° 18′†	29.92	760.0	62	16.7		nw.			6		4		nw.	0	0	mod.	nw.	clear.
S. S. San Juan, N. 15° 30′, W. 96° 11′			82	27.8		se.			4		5 ks		e.	0	0	light	ese.	fine.
S. S. Zealandia, N. 23° 14′, W. 154° 53′	30.13	765.3	77	25.0	82	ese.			6		10			rain	rain	r'gh	n.	overcast.
S. S. Alameda, Honolulu, Sandwich Islands†	29.99	761.7	73	22.8		ne.			5		6		ne.	2 h'r	2 h'r			fair.
S. Parker M. Whitmore, N 12° 30′, W. 120° 15′ *†	29.88	758.9	80	26.7		ne.			3		5		e.	0	0	short	var.	fair.
S. S. Strathleven, N. 1° 42′, E. 102° 47′	29.87	758.7	79.0	26.1	89	n.			3		9		ne.	3 h'r	3 h'r			overcast.
S. Sovereign of the Seas, N. 11° 07′, W. 119° 00′			80	26.7	87	nne.			2		2		ne.	0	0	mod.	se.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.84	757.9	79.3	26.3	91	ne.			1		8					sm'h		raining.
H. M. S. Mutine, Coquimbo, Chili	30.07	763.8	59	15.0		calm			0		0							misty.
H. M. S. Nelson, Sydney, N. S. W.	29.79	750.7	55	12.8	87	sse.			3–6		10							raining.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	62	16.7	88	w.			2		10					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.09	764.3	57	13.9	81	calm			0		2		w.					fair.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific—Continued.																		
U. S. S. Onward, Callao, Peru*†	30.12	765.0	60	15.6	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili *	30.11	764.8	55	12.8	93	calm	.....	.....	0	.....	2	.....	calm	.....	.....	sm'h	.....	fair
S. S. Australia, Sydney, N.S.W.	30.01	762.2	57	13.9	81	sse.	.....	.....	2	.....	10?	.....	wsw.	0	0	.....	.....	clear.?
S. S City of New York, Sydney. N S. W†	29.67	753.6	65	18.3	84	ssw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. E. L. Pettingill, S. 57° 47′, W. 71° 30′*†	29.20	741 7	38	3.3	.....	w.	.....	.....	6	.....	8	.....	wnw.	rain	rain	h'vy	wsw.	cloudy.
S. E. B. Sutton, S. 29° 10′, W. 124° 00′ *†	30.10	764.5	71	21.7	95	nne.	.....	.....	1	.....	9	.....	.....	sh'rs	sh'rs	h'vy	var.	cloudy.
S. J. W. Gildemeister, S. 32° 50′, E. 152° 30′	29.59	751.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
S. Armenia, S. 57° 00′, W 73° 50′*	29.19	741.4	45	7.2	84	w.	.....	.....	5	.....	9	.....	wnw.	2 h'r	2 h'r	long	w.	cloudy.
Bk. Chas. Stewart, Lobos de Afuera Islands, Peru†	30.07	763.8	66	18.9	.....	se.	.....	.....	6	.....	10	.....	sse.	.....	.....	long	s.	overcast
S. Storm King S. 33° 42′, W. 119° 39′ *†	30.32	770.1	.....	.....	.....	se.	.....	.....	3	.....	10	.....	.....	24 h'r	24 h'r	long	s;w.	overcast.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, S 2° 10′, E. 43° 58′	29.91	759.7	78	25.6	86	se.	.....	.....	2	.....	2	calm	.....	.....	.....	1	se.	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.95	760.7	79	26.1	91	s.	.....	.....	1	.....	2	sse.	.....	.....	.....	1	sse.	blue sky.
H. M. S. Tourmaline, S. 7° 30′, E. 43° 00′	29.98	761.5	80	26.7	82	ese.	.....	.....	3	.....	3	ese.	.....	.....	.....	4	ese.	blue sky
H. M S. Woodlark, Bushir, Persia	30.10	764.5	80.5	26.9	66	wnw.	.....	.....	3	.....	3	calm	.....	.....	.....	.....	.....	misty.
Bk. Great Surgeon, S. 8° 24′ E. 104° 35′*†	30.00	762.0	80	26.7	.....	ese.	.....	.....	4	.....	4	.....	ne	0	0	mod.	se.	fair.
Bk. Mohican, S. 41° 32′, E. 49° 12′	30.17	766.3	56	13.3	.....	nw.	.....	.....	5	.....	7	.....	wnw.	0	0	long	sw.	hazy.
S. S. Radnorshire, N. 11° 40′, E. 53° 20′*†	30.00	762.0	.....	.....	.....	e.	.....	.....	4	.....	10	.....	ene.	0	0	sm'h	.....	overcast.
S. S. Galatia, N. 24° 30′, E. 35° 59′†	29.95	760.7	82	27.8	79	wnw.	.....	.....	2	.....	2	.....	wnw.	0	0	mod.	wnw.	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 28. 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.10	764.4	81.3	27.4	78	se.			4		6			0	0	cloudy	Roziere.
Algiers			30.13	765.4	68.0	20.0	72	wnw.			2		0			0	0	clear	Thève.
La Galle			30.12	765.1	68.4	20.2	55	n.			4		3			0	0	pretty fair	Fonfrède.
Tunis			30.14	765.5	69.1	20.6	64	n.			3		3			0	0	pretty fair	Delord.
Saida			30.17	766.2															Pérés.
Tebessa			30.16	766.1	66.6	19.2	70	n.			2		0			0	0	clear	St. Martin.
Geriville					65.1	18.4	42	nw.			1		4			0	0	cloudy	Forfert.
Laghouat			30.18	766.5	74.8	23.8	44	ne.			1		0			0	0	clear	Abraham.
Biskra			30.15	765.9	72.0	22.2	68	calm			0		1			0	0	very fair	Gonzon.
Australian.																			
Adelaide, South Australia			30.17	766.3	53.2	11.8	74	ssw.	20	8.9			10 s			0.233	5.9	threatening.	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.75	755.6	29.84	757.9	50.0	10.0	85	w.	9	4.0			10			0.44	11.2	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.76	755.8	30.31	769.8	56.7	13.7	70	ne.			2		10			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.56	750.7	30.33	770.3	55.0	12.8	80	wnw.	1.8	0.8			0			0	0		Dr. Wierzbiski
Eperies	29.45	748.0	30.34	770.6	54.3	12.4	77	calm			0		0			0	0		Julius Mikolik.
Gratz	29.06	738.2	30.33	770.4	53.8	12.1	82	nw.			1		10			0.012	0.3		Andreas Rospini.
Hermannstadt	28.89	733.7	30.32	770.1	59.4	15.2	84	se.			1		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.91	734.4	30.29	769.3	45.7	7.6	94	e.			1		10			0	0	cloudy	The Staff.
Lemberg	29.34	745.3	30.34	770.5	56.1	13.4	67	w.			3		0			0	0		Dr. T. Stanecki.
Pola	30.09	764.2	30.20	767.0	61.9	16.6	76	wnw.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.83	757.7	30.29	769.4	62.2	16.8	63	n.			3		0			0	0		Joseph Midlinsky, S. J
Szegedin	30.02	762.5	30.30	769.6	61.9	16.6	68	ne.			2		0			0	0		Karl Stanzel.
Trieste	30.15	765.8	30.25	768.3	63.0	17.2	50	ne.			3		0			0	0		Royal Academy.
Vienna	29.58	751.4	30.31	769.8	53.8	12.1	78	ne.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.06	763.5	30.16	766.1	51.0	10.6	89	s.	12	5.4			7			0	0	misty	W. Boswell.
Armagh, Observatory	29.80	756.9	30.04	763.0	55.7	13.2	77	sse.	17	7.6									S. Call.
Bidston, Liverpool Obs'y			30.14	765.5	54.4	12.4	83	sse.	11	4.9			10					overcast	John Hartnup.
Bolton, Sharples	29.63	752.6	30.17	766.3	55.4	13.0	74	ssw.	18	8.0			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough & Preston.
Cardington	30.10	764.5	30.21	767.3	60.0	15.6	65	se.			0.4		2					blue sky	John McLaren.
Chatham, School M. E.	30.06	763.5	30.23	767.8	53.1	11.7	92	se.			1		10					foggy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.86	758.4	30.09	764.3	54.9	12.7	87	ese.			5		10					overcast	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	69.0	20.6	75	e.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.75	755.6	29.98	761.5	83	28.3	87	w.			4		0?					raining?	J. W. Smith.
Galway, Queen's College	29.91	759.7	29.94	760.5	55	12.8	81	s.			2		7			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	68.4	20.2	98	ne.			4		8					gloomy	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	29.83	757.7	30.04	763.0	53.9	12.2	81	se.			3		10 k					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.04	763.0	30.21	767.3	59.5	15.3	76	e.			1		0					blue sky	The Staff.
Guernsey	29.84	757.9	30.14	765.5	53.0	11.7	98	ese.			1		10					misty	A. Collenette, F. M. S
Kew, Observatory	30.18	766.6	30.22	767.6	57.7	14.3	70	ese.	12	5.4			2					misty	The Staff.
Leicester, Museum	29.96	761.0	30.22	767.6	60.2	15.7	68	se.			2							blue sky	J. C. Smith.
Malta, Mediterranean	30.02	762.5	30.10	764.5	68.2	20.1	60	ne.			2		4			0	0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.01	762.2	30.06	763.5	80.5	26.9	76	ne.			2		2					blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.67	753.6	30.19	766.8	55.4	13.0	84	sse.			2		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	53.8	12.1	90	se.			2		10					foggy	The Staff.
Plymouth	30.02	762.5	30.10	764.5	57.8	14.3	82	se.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	29.94	760.5	30.04	763.0	48.2	9.0	69						5					d. clouds	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.09	764.3	30.10	766.1	67.8	19.9	66	ene.			2		5					d. clouds	W. H. Lyne.
Sheffield	29.90	759.4	30.18	766.6	57.1	13.9	78	ssw.			1		10			0.01	0.3	overcast	W. F. Cooper.
Silloth Rectory	30.10	764.5	30.12	765.0	55.8	13.2	83	s.			1		8			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.18	766.6	55.6	13.1	69	sse.	10	4.5			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					58.3	14.6	71	nw.			0.6		4					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.03	762.7	30.10	764.5	57	13.9	81	se.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.89	759.2	29.92	760.0	55.4	13.0	89	sse.	36	16.1			10					overcast	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.71	754.6	30.10	764.5	67.6	19.8	55	nw.	6.2	2.7		8 c	0	w.		0	0	cloudy	Rev. Ph. Borrelle
Canadian.																			
Bathurst, N. B.	30.28	769.1	30.32	770.1	34.0	1.1		calm	0	0		10 ck	0	n.		0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.04	763.0	30.08	764.0	39	3.9	81	n.	12	5.4			10 n			0.053	1.4	light rain	H. J. Cundall, C. E.
Chatham, N. B*	30.14	765.5	30.20	767.1	31	— 0.6	85	n.	6	2.7		0	0			0	0	clear	G. A. Blair.
Cornwall, Ontario	29.96	761.0	30.16	766.1	38.4	3.6	94	ne.			1		10 s			0	0	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.	30.17	766.3	30.22	767.6				w.			1		10 ks			0	0	overcast	H. A. Johnson.
Edmonton, N. W. T *	26.96	684.8			29	— 1.7	77	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.22	767.6	30.24	768.1	29	— 1.7	74	ne.	2	0.9		5 cs	5 ks			0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.73	729.7	29.57	751.1	39	3.9	96	sw.	13	5.8			10 s		sw.	0	0	cloudy	James Stewart.
Fredericton, N. B.	30.14	765.5	30.21	767.3	30.5	— 0.8	95	nw.	4	1.8		0	1 s			0	0	blue sky	Prof. Thos. Harrison
Grand Manan, N. B.	30.10	764.5	30.16	766.1	40	4.4	82	ne.	10	4.5		8 k	0	ne.		0	0	fair	J. Chipman Seeley
Granton, Ontario	28.95	735.3	30.07	763.8	40.0	4.4	91	se.	2	0.9		3 cs	0			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.96	761.0	30.10	764.5	39	3.9	89	nw.	6	2.7		8 k	0	n.		0.026	0.7	cloudy	A. Allison.
Hamilton, Ontario	29.66	753.4	30.05	763.3	35.2	1.8	84	ne.			1	9 cs	0	n.		0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.84	757.9	30.19	766.8	32	0.0	90	n.	3	1.3		0	fg			0	0	foggy	A. P. Knight, M. A.
Little Glace Bay, N. S.																			C. H. Rigby.
London, Ontario	29.16	740.7	30.08	764.0	41.2	5.1	96	calm			0	2 c	6 ks	nw.		0	0	cloudy	E. B. Reed.
Medicine Hat, N. W. T	27.10	688.3	29.31	744.5	29	— 1.7	80	calm	0	0		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.56	700.0	29.51	749.5	33	0.6	92	se.	3	1.3			fg			0.02	0.5	dense fog	Rev. J. M. Wellwood.
Montreal, Quebec*	29.96	761.0	30.18	766.6	42	5.6	83	w.	2	0.9			10 s			0	0	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.94	760.5	30.18	766.6	26.5	— 3.1		ne.				0	5 s			0	0	foggy	A. McGill, M. A.
Parry Sound, Ontario*	29.39	746.5	30.10	764.5	38	3.3	89	e.	7	3.1		5 k	5 ks	se.	se.	0	0	fair	Rev. R. Mosley.
Peterboro, Ontario	29.38	746.2	30.14	765.5	38.7	3.7	80	e.			1	0	3 k			0	0	blue sky	Wm. O'Connor, M.A.
Port Arthur	29.07	738.4	29.78	756.4	44	6.7	100	se.	9	4.0			10 n			0.03	0.8	light rain	W. P. Cooke.
Port Dover, Ontario	29.30	745.7	30.07	763.8	43	6.1	100	ne.	2	0.9		5 k	5 n	se.		0.02	0.5	cloudy	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.05	763.3	44	6.7	93	e.	2	0.9			10 n		e.	Inap.	Inap.	cloudy	M. Payne.
Qu'Appelle, N. W. T	27.15	689.6	29.45	748.0	30	— 1.1	92	calm	0	0		2 cs	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.84	757.9	30.21	767.3	37	2.8	96	ne.	8	3.6			10 ks		sw.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.67	753.6	30.15	765.8	31	— 0.6	88	calm	0	0			fg			0	0	foggy	W. H. McIntyre.
St. Andrews, N. B.	30.11	764.8	30.16	766.1	35	1.7	94	n.	1	0.4		0	0			0	0	clear	
St. John, N. B	30.03	762.7	30.18	766.6	32.9	0.5	90	ne.	21	9.4		0	4 k		ne.	0	0	d. clouds	G. Hutchinson.
Saint John's, N. F	29.63	752.6	29.89	759.2	34	1.1	89	ne.			3		10 s			0	0	cloudy	J. Higgins.
St. Pierre, N. F			29.84	758.0	35.6	2.0		ne.			8								The Commandant.
Saugeen, Ontario*	29.32	744.7	30.06	763.5	37	2.8	79	se.	12	5.4		2 cs	2 n			0	0	fair	
Stratford, Ontario			30.00		40.0	4.4	81	se.	9.0	4.0		0	7 s			0	0	blue sky	O. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers
Canadian.—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	29.92	760.0	29.99	761.7	41	5.0	73	n.	7	3.1			10 ks		n.	0.03	0.8	cloudy	[illegible], C. E.
Toronto, Ontario*	29.72	754.9	30.11	764.8	43	6.1	83	e.	8	3.6		2 cs	2 ks	w.	w.	0	0	fair	Magnetic Observatory.
Woodstock, Ontario	29.03	737.1	30.12	765.0	39.5	4.2	92	ne.	4	1.8			10 s			0.02	0.5	overcast	Prof. N Wolverton, M.A.
Yarmouth, N. S.*	30.06	763.5	30.12	765.0	38	3.3	89	ne.	5	2.2		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Cape Colony.																			
Cape St. Francis Lt.House	30.00	762.0	30.03	762.7	62.0	16.7	83	sw.	17.5	7.8			10			0.030	0.8	rainy	I. Garfeit.
Cape Town	30.10	764.5			74.0	23.3	62					2 ck				0	0		
Springbok Fontein	27.87	707.9			74	23.3	49									0	0		J. T. Eustace
Chilian.																			
Coquimbo	30.01	762.3	30.09	764.3	58.3	14.6	90	s.			1		10					cloudy	Samuel Redolez.
Iquique	29.99	761.8	30.02	762.5	61.9	16.6	73	sw.			3							foggy	Rafael Moreno.
Niebla	29.54	750.3	29.65	753.0	50.7	10.4	77	n.			2	0	4		n.	0	0	cloudy	Federico Köhling.
Punta Caldera	29.95	760.8	30.04	763.0	60.1	15.6	77	sw.			2	7	sk	sw.	sw.			fair	Manuel Tobar.
Punta Corona	29.99	761.8	30.18	766.6				s.			2	0	0			0	0	clear	Francisco Alvarado.
Valparaiso	29.82	757.4	29.91	759.6	57.9	14.4	84	n.			1	4	7					fair	Paez-i-Ampuero.
Chinese (*Sub-series*).																			
Sung-shu-chwang	25.17	639.3																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.21	767.2	30.23	767.9	59.2	15.1	98	nw.	11.2	5.0			10 n			0.118	3.0	covered	M. Marc Dechevrens, S. J
Danish.																			
Copenhagen	30.32	770.0	30.36	771.2	50.0	10.0	76	nw.	9	4			1						Oversergent Fischer.
Fanoe	30.33	770.3	30.35	770.8	47.7	8.7	100	se.			2		10					dense fog	Overloerer Lauridsen.
Godthaab, Greenland	29.76	755.8	29.80	756.9	22.3	—5.4	78	ene.			4		0						S. Kleinschmidt.
Jacobshavn, Greenland	29.90	759.5	29.95	760.7	13.3	—10.4		e.			2		0						
Stykkisholm, Iceland	29.34	745.3	29.39	746.4	39.6	4.2	80	e.			6		10						A. O. Thorlacius.
Thorshavn	29.88	758.9	29.90	759.5	48.6	9.2	93	w.	18	8			10						Overloerer Bergh.
Vestervig	30.21	767.4	30.30	769.7	49.1	9.5	80	calm			0		0						Loerer Oestergaard.
Egyptian.																			
Cairo	29.84	758.0			78.3	25.7		n.	2.5	1.1			6 k			0	0		Albert Ismaiun.
French.																			
Agen, Normal School	29.49	749.0	30.13	765.2	65.8	18.8	69	sse.			2	ck				0	0		M. Labroue, Director.
Alençon, Normal School	29.58	751.2	30.13	765.2	57.9	14.4	95	se.			1				nw.	0	0		M. Nicot, Director.
Avignon, Normal School	30.14	765.5	30.22	767.5	65.8	18.8	64	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.62	752.4	30.17	766.3	61.2	16.2	69	sse.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.93	760.3	30.21	767.2	53.6	12	87	se.			1		10			0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.26	743.2	30.18	766.6	50.0	10	89	w			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.5	30.04	763.1	65.3	18.5	73	ese.			2		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.47	748.4	30.01	762.2	62.6	17	73	se.			1		ns		se	0	0		M. Mulet, Director.
Brest, Naval Observatory	29.82	757.5	30.07	763.7	63.3	17.4	88	ese.			2		8		ese.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.02	762.4	30.09	764.3	58.6	14.8	78	e.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.83	757.7	30.15	765.8	57.4	14.1	93	e.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.70	754.3	30.21	767.3	59.4	15.2	83	se.			1		0			0	0	clear	M. Noel, Director.
Clermont-Ferrand Obs'y	28.78	730.9	30.10	764.6	66.7	19.3	42	sse.			1		2			0	0		M. Allnard, Director.
Cluny, Normal School	29.36	745.8	30.22	767.7	61.9	16.6	73	s.			1				sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.38	746.2	30.24	768.1	51.8	11	86	s.			1		10			0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.67	702.9	30.10	767.1	58.6	14.8	61	se.			1		0			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.08	738.5	30.18	766.5	68.2	20.1	42	se.			2		3		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.47	748.4	30.24	768.0	54.7	12.6	88	s.			1		k		s.	0	0		M. Abiard, Directoor.
Guéret, Normal School	28.56	725.4	30.13	765.2	61.7	16.5	69	se.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.77	756.1	30.04	763.1	52.5	11.4	95	se.			2		5		se.	0	0	cloudy	M. Ollitrault, Director
Lescar, Normal School	29.46	748.2	30.00	762.1	70.7	21.5	51	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.00	761.9	30.10	764.5	66.6	19.2	72	ese.			1		5		se.	0	0	½ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.14	740.2	30.19	766.9	61.5	16.4	69	se			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.83	757.7	30.14	765.6	58.3	14.6	80	se.			1		5		s.	0	0	cloudy	M. Richard, Director.
Marseille, Observatory	29.95	760.6	30.21	767.4	70.3	21.3	56	se.			1-2		4		se.	0	0		M. Stephan, Director.
Montlouis	24.94	633.5	29.78	756.5	50.9	10.5	57	sw.	5.6	2.5			7		ne.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.06	763.6	30.17	766.3	65.1	18.4	85	w.			4		2	w.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.47	748.5	30.26	768.7	50.7	10.4	95	nw.			1		10			0	0	foggy	M. Hasse, Director.
Nantes, Observatory	29.94	760.4	30.10	764.5	63.5	17.5	78	ese.			1	c	4 k		sse.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.05	763.2	30.16	766.0	63.3	17.4	80	e.	9.4	4.2			4	s.	sse.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.0			33.8	1.0		sw.			1		5		sw.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.14	740.1	30.22	767.6	63.3	17.4	59	s.			1		1	s.	n.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.29	642.4			46.2	7.9	87	s.			2		2		ssw.	0	0		M. Allnard.
Rochefort, Naval Obs'y	30.04	763.0	30.07	763.8	64.0	17.8	76	se.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	758.9	30.09	764.3	63.3	17.4	89	se.			4		10			0	0	covered	M. Brodier, Director.
Rodez, Normal School	27.93	709.5	30.08	763.9	55.6	13.1	67	nw.			4		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.15	765.7	30.19	766.9	57.2	14	89	nnw.			1		10	nnw.		0	0	covered	M. Mouillot, Dir.
St Lô	29.99	761.8	30.13	765.4	57.7	14.3	86	se.			1		5		w.	0	0	cloudy	M. Delaplanche, Dir.
Saint Maur, Observatory	30.02	762.6	30.19	766.8	49.6	9.8	100	ne.			1		10			0	0		M. Renou, Director.
Toulouse, Observatory	29.40	746.8	30.13	765.2	60.6	15.9	88	sse.			8		8	sw.		0	0	very cloudy	M. Baillard, Director.
Tours	29.93	760.2	30.11	764.7	62.2	16.8	76	e.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.68	753.9	30.17	766.4	48.6	9.2	97						10			0	0	covered	Dr. A. Bergny, Director.
Sub-series.																			
St. Martin du Hinx	29.87	758.8	30.02	762.6	67.5	19.7	67	ne.	7.8	3.5		c	5 k			0	0		M. Cartier, Director.
German.																			
Ansbach	28.84	732.6	30.32	770.0	49.6	9.8	92	e.			2		10	e.		0	0		Prof. Jnedt.
Bamberg	29.45	748.0	30.30	769.7	53.2	11.8	80	calm			0		6 k		w.	0	0		Prof. Dr. Hoh.
Berlin	30.24	768.0	30.38	771.7	54.7	12.6	80	calm			0		10			0	0		Dr. Lensch.
Breslau	29.82	757.3	30.35	770.9	54.3	12.4	69	w.			2		3	sw.		0	0		Royal University Obs'y.
Carlsruhe	29.80	756.8	30.25	768.4	61.3	16.3	69	ne.			3		9	e.		0	0		Albert Senz.
Cassel	29.58	751.3	30.29	769.4	53.4	11.9	67	e.			2		10	se.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.91	759.8	30.28	769.1	58.3	14.6	65	calm			0		6			0	0		Physical Society.
Friedrichshafen	28.81	731.7	30.25	768.3	49.6	9.8	87	sw.			1		10	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.26	768.7	30.35	771.0	53.8	12.1	80	ese.			2		10			0	0		E. Freier.
Kiel	30.34	770.5	30.35	770.9	52.9	11.6	94	calm			0		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.92	759.9	30.34	770.7	52.9	11.6	88	se.			1		10			0	0	foggy	H. Leppig, Asst.
Magdeburg	30.16	766.0	30.35	770.9	55.2	12.9	80	nw.			1		10	wnw.		0	0		Weather Observatory.
Memel	30.23	767.9	30.28	769.1	51.1	10.6	89	nw.			3		10 ks						Issermann.
Munich	28.41	721.7	30.29	769.4	48.0	8.9	89	e.			2		10	ne.		0	0		Central Station.
Neufahrwasser	30.30	769.7	30.32	770.1	52.0	11.1	79	sw.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.67	753.0	30.20	767.0	57.0	13.9	79	nw.			1		10			0	0	foggy	Dicknether.
Stuttgart	29.32	744.8	30.22	767.7	53.6	12.0	85	n.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.33	770.4	30.36	771.1	50.2	10.1	76	nw.			1	c	8 s			0	0		Profs. Brandes & Reimer.
Greek.																			
Athens	29.72	754.8	30.10	764.4	69.8	21.0		ne.			0.5		7 k			0.949	24.1		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.93	760.1	29.98	761.4	89.9	32.2	25	sw.	20.0	8.9			0			0	0	blue sky	
Deesa	29.48	748.7	29.95	760.7	89.8	32.1	24	nne.	8.0	3.6			3	nne.		0	0	d. clouds	
Bombay	29.89	759.2	29.93	760.1	83.0	28.3	73	nw.	15.0	6.7			0			0	0	blue sky	
Poona, Yarrowda	28.10	713.6	29.96	760.9	79.1	26.2	35	ne.	8.0	3.6			0			0	0	blue sky	
Trichinopoly	29.60	751.8	29.88	759.0	76.7	24.8	79	n.	0.1	0.04			10			0.09	2.3	overcast	
Bellary	28.42	721.8	29.88	759.0	81.0	27.2	43	ne.	4.0	1.8			5			0	0	d. clouds	
Belgaum	27.37	695.2	29.91	759.8	75.6	24.2	49	ene.	3.0	1.3			2	s.	w.	0	0	d. clouds	
Lahore	29.23	742.4	29.98	761.5	75.9	24.4	41	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p.sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	29.05	738.0	29.97	761.2	72.8	22.7	46	calm	0	0			0			0	0	blue sky	
Agra	29.40	746.8	29.97	761.2	82.7	28.2	22	w.	4.0	1.8			0			0	0	blue sky	
Nagpur	28.91	734.2	29.96	761.0	76.5	24.7	42	calm	0	0			0			0	0	blue sky	
Jubbulpore	28.62	726.8	29.99	761.7	75.8	24.3	43	calm	0	0			1			0	0	blue sky	
Lucknow	29.59	751.5	29.97	761.1	81.2	27.3	37	calm	0	0			0			0	0	blue sky	
Allahabad	29.63	752.5	29.94	760.6	74.3	23.5	65	calm	0	0			1			0	0	blue sky	
Patna	29.70	755.9	29.95	760.6	77.9	25.5	58	calm	1.3	0.6			0			0	0	blue sky	
Hazaribagh	27.92	709.3	29.95	760.8	75.5	24.2	57	calm	2.7	1.2			8			0	0	d. clouds	
Cuttack	29.86	758.4	29.94	760.5	80.0	26.7	68	calm	0	0			0			0	0	blue sky	
Calcutta, Alipore	29.92	759.8	29.94	760.4	77.5	25.3	75	nnw.	1.0	0.4			5			0	0	d. clouds	
Dhubri	29.82	757.5	29.94	760.6	76.5	24.7	79	nne.	2.7	1.2			0			0	0	blue sky	
Chittagong	29.84	758.0	29.93	760.3	79.7	26.5	79	calm	0.8	0.4			8			0	0	d. clouds	
Sibsagar	29.63	752.6	29.97	761.3	75.4	24.1	80	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.55	725.3	30.00	762.1	80.0	27.0	19	n.	4.1	1.8			0			0	0	blue sky	
Zanzibar	29.94	760.5			80.7	27.0	71	nnw.	1.8	0.8			2	e.	ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.83	757.6	30.24	768.0	61.9	16.6	55	e.	4.9	2.2			0			0	0		Prof. Giovanni Olodig.
Milan	29.74	755.3	30.25	768.4	59.0	15.0	70	se.	3.1	1.4			3	se.		0	0		Prof. G.V.Schiapparelli
Padua	30.14	765.5	30.25	768.3	60.3	15.7	47	ne.	2.5	1.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.34	745.3	30.25	768.4	56.7	13.7	69	ne.	1.3	0.6			0			0	0		Prof. F. F. Denza.
Genoa	30.02	762.5	30.21	767.4	65.8	18.8	46	n.	1.8	0.8			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.33	719.5	30.25	768.3	55.2	12.9	70	n.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.19	766.9	30.24	768.1	58.6	14.8	66	nnw.	10.5	4.7			6			0	0		Prof. Luigi Guidi.
Florence	29.93	760.3	30.19	766.8	63.5	17.5	55	e.			2					0	0		Prof. Costantino Pittei
Leghorn	30.05	763.2	30.13	765.4	66.2	19.0	43	ene.	8.7	3.9			0			0	0		Prof. P. Monte.
Rome	29.97	761.1	30.14	765.5	66.2	19.0	46	n.	0	0			0			0	0		Prof. P. Tacchini.
Lecce	29.85	758.2	30.10	764.6	64.6	18.1	82	nnw.	9.4	4.2			7			0	0		Prof. C. de Giorgi.
Cosenza	29.23	742.5	30.12	765.1	59.7	15.4	61	wsw.	2.5	1.1			9	sw.		0.205	5.2		Prof. D. Conti.
Cagliari	29.95	760.6	30.13	765.4	66.2	19.0	69	calm			0		3			0	0		Prof. A. Pacinotti.
Palermo	29.86	758.4	30.11	764.7	66.2	19.0	65	ne.	3.1	1.4			3			0.635	0.9		Prof. G. Cacciatore.
Syracuse	30.02	762.5	30.06	763.6	66.0	19.2	63	nne.	7.4	3.3			10	ne.		0.165	4.2		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.61	752.1	30.13	765.3	65.7	18.7	61	ene.	1.3	0.6			4	e.		0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.10	764.5	30.13	765.4	54.7	12.6	95	e.			2		10 n;s		w.	0.905	23.0	raining	H. Hattori.
Awomori	30.01	762.2	30.05	763.3	56.1	13.4	90	ssw.	8.6	3.8			10 n			0.130	3.3	raining	K. Ogawa.
Hamamatsu	30.13	765.3	30.23	767.8	61.0	16.1	93	calm			0		10 n			0.878	22.3	raining	Sekigawa & Yamazaki.
Kagoshima	30.15	765.7	30.16	766.0	66.0	18.9	94	n.			3		10 s			0.193	4.9	Overcast	G. Miyanohaza.
Kanazawa	30.08	764.0	30.18	766.6	61.1	16.2	94	sw.	3.7	1.6			10 n			1.160	29.6	raining	S. Endo.
Kioto	30.00	762.0	30.17	766.4	59.2	15.1	99	nnw.	0.2	0.1			10 n			1.151	29.2	light rain	M. Tojima.
Kobi	30.13	765.4	30.16	765.9	64.0	17.8	96	e.	11.9	5.3			10 n			1.04	26.5	raining	K. Kusunose.
Miasaka	30.13	765.3	30.16	766.0	65.5	18.6	95	wsw.			1		10 n		e.	0.181	4.6	raining	K. Masusaki.
Miyako	30.04	763.0	30.15	765.8	58.3	14.6	81	wsw.	3.9	1.7			10 s			0.008	0.2	cloudy	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.94	760.5	30.14	765.5	64.1	17.8	98	n.	0.9	0.4			10 n			1.370	34.8	raining	S. Takehayasu.
Niigata	30.10	764.5	30.14	765.5	58.9	14.9	84	se.	8.2	3.7			10 s			0.370	9.4	overcast	Satoo & Tomikawa.
Nobiru	30.18	766.5	30.19	766.9	61.1	16.2	82	sw.	20.8	9.3			10n;ks			0.180	4.0	raining	Yoslino & Midsushina.
Numazu	30.20	767.1	30.24	768.0	57.1	13.9	91	calm			0		10 n			1.421	36.1	light rain	R. Kaneda.
Osaka	30.17	766.2	30.18	766.7	59.5	15.3	97	ne.	7.5	3.3			10 n			2.450	62.2	light rain	H. Omura.
Sakai	30.14	765.5	30.15	765.7	61.7	16.5	95	nw.			2		10 ks		w.	1.004	25.5	cloudy	Yamawchi&Sakamoto.
Shimonoseki	30.00	762.1	30.15	765.8	63.0	17.2	99	calm			0		10 n			0.799	20.3	raining	S. Sakaro.
Tokei Obs'y, Yeddo	30.17	766.3	30.25	768.3	53.4	11.9	99	nnw.	6.3	2.8			10 n			1.113	28.3	raining	The Staff.
Wakayama	30.10	764.5	30.15	765.8	61.7	16.5	94	ne;ene.	4.5	2.0			10 n			1.071	27.2	raining	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.90	759.4	30.09	764.3	73.9	23.3	80	ene.	15.0	6.7		2 kc	7n;ks		ene.	0.39	9.9	cloudy	The Staff.
MEXICAN.																			
Leon	24.30	617.2	30.01	762.2	54.1	12.3	87	n.	0.9	0.4		6 c	1 s			0	0	cloudy	Prof. M. Leal.
Mazatlan	29.63	752.5	29.88	759.0	76.5	24.7	91	nne.	0.9	0.4		1 cs	0	sw.		0	0		F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.25	768.3	30.25	768.3	58.1	14.5		ene.			4						0		
Groningen	30.26	768.6	30.32	770.0	52.5	11.4		s.			1					0	0		
Helder	30.28	769.2	30.28	769.2	53.1	11.7		ese.			1					0	0		
Hellevoetsluis	30.26	768.7	30.26	768.7	56.8	13.8	81	e.			2					0	0		
Utrecht	30.23	767.9	30.28	769.1	55.6	13.1	73	ese.			3		8			0	0	very cloudy	H. van der Brink
Sub-series.																			
Batavia, Java	29.89	759.1			73.0	22.8	97	s.	0	0			10			1.740	44.2		Lt.J.J.Roptman, R.D.N
NORWEGIAN.																			
Bergen	30.22	767.5	30.28	769.1	49.6	9.8	76	s.	13	6			4			0.472	12.0		
Brono	29.88	759.0	29.92	760.0	45.0	7.2	86	wsw.			6–7		10			0.496	12.6	raining	
Christiania	30.12	765.0	30.27	768.8	49.8	9.7	70	sw.	4	2			4			0.126	3.2		
Gjæsvær	29.56	750.8	29.58	751.4	38.8	3.8		wnw.			7		10					light rain	
Lodingen	29.76	755.9	29.84	757.9	39.0	3.9	80	nw.			2		9			0.098	2.5	rain & snow	
PORTUGUESE.																			
Angra, Azores					62.2	16.8	85	nnw.	4.9	2.2			3			0.827	21.0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.89	759.3	29.98	761.5	71.6	22.0	71	wsw.	8.7	3.9			8			0.020	0.5		Capt. D. A. de Ounha.
Lisbon, Observatory	29.50	750.9	29.89	759.2	65.8	18.8	84	sw.	11.9	5.3			5			0.105	4.2		The Staff.
Ponta Delgada, Azores	29.90	759.4	29.97	761.2	66.2	19.0	54	nne.	15.4	6.9			4		e.	0.504	12.8		
Saint Paul de Loando	29.72	755.0	29.93	760.1	75.0	23.9	97	w.	1.8	0.8			5			0	0		
San Salvador, Congo	28.11	714.0	29.93	760.3	80.2	26.8	59	wsw.			2		10			0	0		
Serra da Estrella	25.22	640.5	29.96	760.9	46.2	7.9	100	se.	14.3	6.4			10			1.953	49.6	raining	
RUSSIAN.																			
Akmolinski	28.76	730.5	29.85	758.2	42.3	5.7	54	sw.	22	10			10 n			0	0		Major K. Lasarew.
Archangel	29.57	751.0	29.59	751.5	33.4	0.8	96	calm	0	0			10			0	0		Capt. Sseliwerstow
Ashurada	30.45	773.5	30.36	771.1	67.3	19.6	63	nw.	7	3		4 cs	0			0	0	light clouds	
Astrakhan	30.51	774.9	30.43	773.0	53.4	11.9	47	n.	9	4		0	0			0	0		Capt. Wisganow.
Baku	30.40	773.6	30.41	772.4	58.6	14.8	76	nne.	18	8		4 ck	0			0	0		
Barnaul	29.83	757.6	30.36	771.1	27.7 —	2.4	71	s.	9	4			10			0	0		Meteorological Obs'y
Bielosersk	29.23	742.5	29.71	754.5	41.4	5.2	97	ssw.	11	5			10 s;n			0.126	3.2	light rain	
Dorpat	29.77	756.1	30.02	762.4	49.1	9.5	75	w.	16	7		6 ck	0			0.008	0.2		Observatory.
Ekaterinburg	28.67	728.1	29.65	753.1	33.1	0.6	90	wsw.	11	5			10			0	0		Meteorological Obs'y.
Elissawetgrad	30.01	762.2	30.47	773.8	57.7	14.3	62	w.	2	1		0	0			0	0		
Irkutsk	28.97	735.7	30.75	781.1	18.5 —	7.5	74	calm			0		2			0	0		
Kasalinsk					46.8	8.2	91	w.	13	6		0	0						
Kasan	29.80	757.0	30.08	764.1	35.6	2.0	66	sw.	4	2			10 n			0	0		Observatory.
Kem	29.51	749.5	29.50	750.8	34.0	1.1	90	calm	0	0			10 n			0.087	2.2	h'vy clouds	
Kertch	30.24	768.2	30.27	768.8	55.9	13.3	72	ne.	4	2		0	0			0	0		Lagorio & Sastyres.
Kieff	29.72	754.8	30.36	771.1	56.3	13.5	65	sw.	9	4		c	1 ks			0	0		Observatory.
Koslov	29.76	756.0	30.28	769.1	48.2	9.0	72	w.	9	4		4 cs	0			0	0		
Libau	30.20	767.0	30.22	767.6	50.4	10.2	86	wnw.	7	3			0			0	0		E. Quass.
Lugan	30.23	767.8	30.43	773.0	54.5	12.5	48	sw.	2	1			0			0	0		Meteorological Obs'y.
Moscow	29.63	752.7	30.12	765.1	45.7	7.6	65	wnw.	3.4	1.5		8 cs	0			0.004	0.1	light clouds	Meteorological Obs'y
Nikolaiev	30.38	771.6	30.45	773.4	59.0	15.0	67	e.	4	2		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mils. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	29.99	761.7	30.08	763.9	24.1	— 4.4	93	calm	0	0		0	0						Iwanow.
Pekin, China	30.06	763.5	30.20	767.1	49.5	9.7	76	calm	0	0			9 n			0	0		Physical Observatory.
Petro-Alexandrovsk	29.90	759.5	30.25	768.4	62.4	16.9	54	calm	0	0		0	0			0	0		
Petrozavodsk	29.37	746.1	29.57	751.1	43.3	6.3	84	wnw.	22	10		8 ck	0			0.031	0.8		Dr. Bergmann.
Pinsk	29.81	757.1	30.31	769.8	57.2	14.0	63	w.	7	3		1 c	0			0	0	light clouds	
Poti	30.20	767.0	30.23	767.2	68.7	20.4	91	e.	4	2		0	0			0	0		
St. Petersburg	29.79	756.6	29.81	757.1	46.4	8.0	83	w.	13	6		0	7 k			0.075	1.9		Central Physical Obs'y.
Samarkand	27.83	706.9	30.33	770.4	52.5	11 4	52	calm	0	0		0	0			0	0		
Semipalatinsk	29.70	754.3	30.38	771.7	32.5	0.3	60	se.	9	4			5			0	0		Major Lasarew
Sevastopol	30.12	765.1	30.54	770.5	63.1	17.3	65	nw.	11	5		0	0			0	0		
Staroi Bykhov	29.69	754.1	30.25	768.4	50.2	10.1	73	se.	9	4		10 cs	0			0	0	light clouds	
Tashkend Laboratory	28.60	726.3	30.25	768.4	61.9	16.6	33	calm	0	0		0	0			0	0		Torch, A. M
Tiflis	28.93	734.7	30.33	770.4	66.6	19.2	53	sse.	7	3		0	2 k			0	0		Physical Observatory.
Vernoe	27.65	702.4	30.22	767.6	42.3	5.7	58	calm	0	0		0	0			0	0		
Viatka	29.13	739.9	29.78	756.4	33.1	0.6	85	w.	7	3			9			0	0		
Warsaw	29.89	759.3	30.32	770.2	54.3	12.4	78	wsw.	7	3		3 cs	0			0	0	light clouds	Astronomical Obs'y.
Yeniseisk	30.28	769.0	30.59	777.0	16.5	— 8.6	80	calm	0	0			2			0.008	0.2		M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.01	762.2	30.11	764.8	69.4	20.8	79	se.	5.6	2.5		0	8			0.091	2.3		Antonio Molins.
Bilbao, Met. Obs'y	29.93	760.2	29 99	761.7	75.9	24.4	52	s.	3.6	1.6		3	4	nw.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.10	688.4	30.06	763.4	57.6	14.2	73	se.	2.5	1.1			9			0	0	almost cov'd	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.4	30.09	764.2	55.8	13.2	94	ne.	7.8	3.5			10			0.146	3.7	rainy	The Staff.
Murcia, Met. Obs'y	29.97	761.2	30.12	765.0	69.1	20.6	87	ssw.	3.1	1.4		5	5	e.		0.031	0.8	rainy	Olayo Diaz, Director.
Oviedo	29.15	740.5	29.91	759.8	57.6	14.2	84	s.	8.5	3.8		4 k	4 n	nw.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	28.95	735.3	29.82	757.4	66.9	19.4	69	se.	2.5	1.1			8			0	0	almost cov	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.92	760 0	29.96	761.6	78.0	25.6	86	e.	3.1	1.4		0	2 k		e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.52	749.9	29.58	751 3	73.2	22.9	99	nnw.	22.0	9.8			10 n			0.870	22.1	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	759.1	29.98	761.5	75.0	23.9	56	sse.	5.7	2.5		2	2	s.	s.	0.02	0.4		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W. I	29.89	759.1	29.98	761.4	78.8	26.0	92	se.	2.7	1.2		2 cs	0	se.		0	0	clear	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	29.75	755.7	29.79	756.7	31.6	— 0.2	96	n.			4		10			0	0		
Umea	29.85	758.1	29.90	759.4	42.4	5.8	81	nw.			2		1			0	0		
Hernosand	29.89	759.3	29.95	760.6	49.6	9.8	45	wnw.			6		0			0.118	3.0		
Stockholm	30.04	763 1	30.22	767.6	47.8	8.8	59	w.			2		2			0.024	0.6		
Wisby	30.12	765.1	30.18	766.6	48.2	9.0	78	wnw.			4		0			0	0		
Sub-series.																			
Upsala	30.08	763.9	30.16	766.1	48.0	8.9	63	wnw.	5.8	2.6			1	w.		0	0		H. H. Hildebrandesson
Swiss.																			
Geneva	28.83	732.2	30.27	768.9	48.4	9.1	89	w.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.22	767.5	66.0	18 9	69	ne.	19	8.5			7		ne.	0	0		The Observatory.
Valona			30.18?	766.6?	72.0	22.2		w.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.1	81.9	27.7	49	ne.			1		1 k		sse.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	27.01	686.0			61	16.1	72	calm			0	2 c	5 k	calm	se.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	30.13	765.3	30.21	767.3	43	6.1	83	s.	1	0.4			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.33	745.0	30.00	762.0	35	1.7	89	calm	0	0			10 s		s.	0	0	cloudy	Jas. J. Fitzgerald.
Apache Fort, Arizona	24.96	634.0	29.86	758.4	41.0	5.0	92	sw.	8	3.6			10 s		sw.	0.10	2.5	threatening	J. B. Turton.
Assiniboine, Ft., Montana	26.72	678.7	29.04	752.8	33	0.6	62	sw.	17	7.6		0	1 s		sw.	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.13	765.3	60.0	15.6	100	se.	6	2.7			fg.			0	0	dense fog	Edward A. Beals.
Atlantic City, New Jersey	30.16	766.1	30.17	766 3	53	11.7	94	calm	0	0			10 s; fg			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.17	766.3	60.8	16.0	88	calm	0	0		0	0			0	0	clear	Louis Duane.
Baltimore, Maryland	30.13	765.3	30.18	766.6	54.2	12.3	86	nw.	2	0.9			10 s		w.	0.01	0.3	cloudy	Geo. W. Felger.
Barnegat City, New Jersey	30.16	766.1	30.18	766 6	52.2	11.2	84	n.	2	0.9		10 cs	0			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	27.94	709.7	29.59	[illegible] 8	30.0	— 1.1	94	nw.	1	0.4		hz.	fg.			0	0	dense fog	A. Pritchard.
Benton, Fort, Montana	26.81	681.0	29.72	754.9	40	4.4	50	s.	8	3.6		0	0			0	0	clear	Thomas Morgan.
Bismarck, Dakota																			B. O. Lenoir.
Block Island, Rhode Island	30.16	766.1	30.18	766.6	47.3	8.5	79	n.	8	3.6		2 cs	0	n.		0	0	clear	J. T. Eiker.
Boise City, Idaho	27.16	689.9	30.02	762.5	34	1.1	92	ne.	3	1.3			10 s			0.73	18.5	cloudy	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.18	766.6	44.0	6.7	87	nw.	6	2.7		0	1 s; hz			0.03	0.8	clear	O. B. Cole.
Brownsville, Texas	29.72	754.9	29.78	756.4	77.0	25.0	85	s.	16	7.2		4 cs	0	w.		0	0	fair	John McGlone.
Buffalo, New York	29.33	745.0	30.09	764.3	44	6.7	80	ne.	5	2.2		10 cs	sk.	w.		0	0	dense smoke	Wm. Finn.
Buford, Fort, Dakota	27.46	697.5	29.56	750.8	29.3	— 1.5	88	e.	2	0.9		3 k	0			inap.	inap.	clear	A. Schneider.
Cairo, Illinois	29.46	748.3	29.86	758.4	63.0	17.2	93	s.	14	6.3			10 s		s.	0.08	2.0	threatening	W. H. Ray.
Canby, Fort, Washington Ter	29.53	750 0	29.73	755.1	50.0	10.0	100	s.	34	15 2			10 n			0.37	9.4	light rain	O. D. Stewart.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	56.0	13.3	86	se.	5	2.2		7 ck	3 s	w.		0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.17	766.3	53.0	11.7	90	n.	3	1.3			10 s			0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.42	747.3	30.11	764.8	47	8.3	86	nw.	4	1.8		0	fg.		nw.	0.03	0.8	clear	J. J. McLean.
Cedar Keys, Florida	30.08	764.6	30.10	764.5	73.5	23.1	87	e.	2	0.9		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	30.12	765.0	30.18	766.6	62.0	16.7	87	ne.	4	1.8		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.30	744.2	30.16	766.1	55.0	12.8	93	se.	2	0.9			10 s		s.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.09	764.3	56.0	13.3	90	ne.	3	1.3		2 cs	1 k			inap.	inap.	clear	B. L. Goulding.
Cheyenne, Wyoming	23.62	599.9	29.64	752.8	30.8	— 0.7	100	w.	4	1.8			fg.		se.	0.17	4.3	dense fog	E. McGovern.
Chicago, Illinois	29.06	738.1	29.78	756.4	50.0	10.0	93	se.	7	3.1			10 s			0	0	cloudy	Wm. Norrington.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	53	11.7	93	calm	0	0			10 ks; hz			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.30	744.2	29.96	761.0	57.3	14.1	90	se.	2	0.9			10 n		se.	0.18	4.6	light rain	L. Dunne.
Cleveland, Ohio	29.29	744.0	30.03	762.7	47.7	8.7	80	se.	6	2.7			10 s		s.	0.02	0.5	cloudy	J. B. Newlin.
Columbus, Ohio	29.14	740.1	30.00	762.0	51	10.6	93	e.	6	2.7			10 n			0.09	2.3	light rain	D. Cuthbertson
Concho, Fort, Texas	27.89	708.4	29.84	757.9	57.3	14.1	93	w.	6	2.7		0	1 s		sw.	0	0	clear	C. E. King.
Custer, Fort, M. T	26.45	671.8	29.69	754.1	27	— 2.8	67	nw.	2	0.9			10 s			0	0	cloudy	T. Gibson.
Davenport, Iowa	29.07	738.4	29.73	755.1	50.3	10.2	93	s.	4	1.8			10 n		s.	0.10	2.5	light rain	R. R. Martin.
Davis, Fort, Texas	25.06	636.5	29.91	759.7	48.0	8.9	48	sw.	8	3.6		0	0			0	0	clear	J. Williams.
Dayton, Washington Ty	28.08	713.2	29.87	758.7	40.0	4.4	70	s.	14	6.3			10 s		sw.	0.38	9.7	threatening	D. Moore.
Deadwood, Dakota	24.94	633.5	29.62	752 3	40	4.4	56	e.	1	0.4		3 ck	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	30.16	766.1	30.18	766.6	53	11.7	88	s.	2	0.9			10 s		s.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.33	618.0	29.59	751.6	30.0	— 1.1	76	s.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.70	729.0	29.62	752.3	49	9.4	93	s.	3	1.3			10 s		s.	0.04	1.0	cloudy	F. W. Conrad.
Detroit, Michigan	29.30	744.2	30.01	762.2	49.0	9.4	93	e.	4	1.8			10 s			0.02	0.5	cloudy	E. R. Brace.
Dodge City, Kansas	27.02	686.3	29.65	753.1	42	5.6	70	w.	9	4.0		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.01	736.8	29.73	755.1	49.3	9.6	93	se.	4	1.8			10 s			0.03	0.8	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.95	735.3	29.71	754.6	47	8.3	93	e.	3	1.3			10 s		e.	0.13	3.3	cloudy	N. B. Conger.
Eastport, Maine	30.10	764.5	30.17	766.3	38.0	3.3	82	n.	3	1.3		0	1 s			0	0	clear	D. C. Murpay.
Elliott, Fort, Texas	26.91	683.5	29.70	754.4	53	11.7	55	sw.	14	6.3		0	0			1.08	27.4	clear	J. C. Rickli.
El Paso, Texas	26.17	664.7	29.91	759.7	44.5	6.9	68	w.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.34	745.2	30.07	763 8	50	10.0	77	se.	1	0.4			10 s		sw.	0	0	cloudy	C. A. Shaw.
Escanaba, Michigan	29.15	740.4	29.82	757.4	46.0	7.8	83	e.	11	4.9			10 s		se.	0.08	2.0	cloudy	George Heathcote.
Galveston, Texas	29.80	756.9	29.84	757 9	77	25.0	85	s.	11	4.9		hz.	4 ks		sw.	0	0	fair	E. O'C. MacInerney
Grand Haven, Michigan	29.13	739.9	29.80	756.9	46.0	7.8	98	se.	12	5.4			10 s			0.01	0.3	cloudy	Wm. H. Fallon.

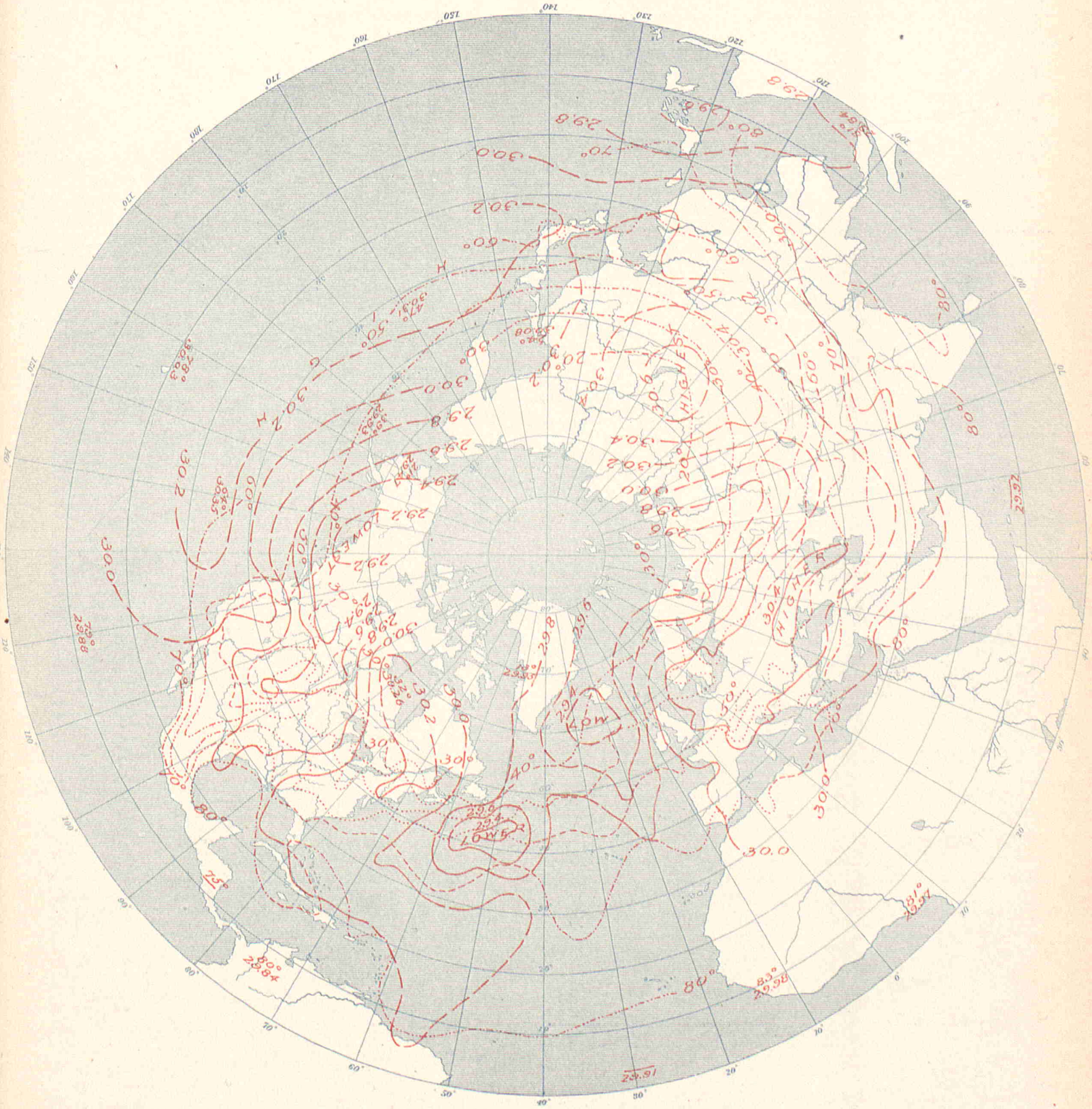
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.15	638.8	29.85	758.2	43.7	6.5	81	nw.	4	1.8	.....	0	2 ks	.....	nw.	0.22	5.6	clear	Chas. A. Read.
Hatteras, North Carolina	30.17	766.3	30.18	766.6	58.0	14.4	93	ne.	6	2.7	.....	.....	10 k	.....	e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.44	646.2	29.74	755.4	35	1.7	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	I. H. Jones.
Huron, Dakota	28.18	715.8	29.61	752.1	44.2	6.8	94	se.	10	4.5	.....	.....	10 s	.....	.....	0.08	2.0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.01	736.8	29 81	757.2	53.4	11.9	90	se.	4	1.8	.....	.....	10 n	.....	se.	0.52	13.2	light rain	C. F. R. Wappenhans.
Indianola, Texas	29.77	756.1	29.80	756 9	77.0	25.0	90	s.	11	4.9	.....	8 k	0	s.	.....	inap.	inap.	cloudy	I. A. Reed.
Jacksonville Florida	30.08	764.0	30.12	765.0	69.0	20.6	93	ne.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.09	738.9	29.76	755.9	52.0	11.1	93	se.	6	2.7	.....	.....	10 n	.....	se.	0.04	1.0	light rain	F. Z. Gosewisch.
Key West, Florida	29.98	761.5	30.00	762.0	79	26.1	88	ne.	16	7.2	.....	1 c	0	w.	.....	0	0	clear	A. W. Browne.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	58	14.4	78	se	7	3.1	.....	3 k	1 s	nw.	.....	0	0	fair	Wesley Blake.
Knoxville, Tennessee	29.05	737.9	30.09	764.3	51.8	11.0	98	ne.	3	1.3	.....	.....	9 s	.....	sw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.90	734.0	29.69	754.1	48	8.9	86	se.	3	1.3	.....	.....	10 n	.....	.....	0.03	0.8	light rain	S. C. Emery.
Leavenworth, Kansas	28.71	729.2	29.61	752.1	55	12.8	93	s.	10	4.5	.....	.....	10 s	.....	s	0.12	3.0	cloudy	T. S. Outram.
Lewiston, Idaho	29.01	736.8	29.86	758.4	37.0	2.8	89	se.	1	0.4	.....	0	0	.....	.....	0.10	2.5	clear	C. E. Butler.
Little Rock, Arkansas	29.48	748.8	29.80	756.9	69.0	20.6	93	s.	3	1.3	.....	.....	10 k	.....	s.	0.08	2.0	cloudy	W. U. Simons.
Los Angeles, California	29.63	752.6	30.03	762.7	46	7.8	83	e.	4	1.8	.....	0	0	.....	.....	0.12	3.0	clear	T. S. Collins.
Louisville, Kentucky	29.32	744.7	29.88	758.9	55.7	13.2	95	n.	8	3.6	.....	.....	10 n	.....	s.	0.93	23.6	light rain	L. M Dey.
Lynchburg, Virginia	29.41	747.0	30.10	764.5	53.0	11.7	80	calm	0	0	.....	0	9 s	.....	.....	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	29.32	744.7	29.99	761.7	41.8	5.4	73	se.	11	4.9	.....	0	8 s	.....	se.	0	0	cloudy	D. B. Nelson.
Macon, Fort, North Carolina	30.16	766.1	30.17	766.3	59.0	15.0	87	ne.	8	3.6	.....	3 cs	0	.....	.....	0	0	clear	William Daly.
Maginnis, Fort, Montana	25.16	639.1	29.70	754.4	33	0.6	71	w.	17	7.6	.....	0	0	.....	.....	0	0	clear	F. Burke.
Marquette, Michigan	29.12	739.6	29.86	758.4	44.5	6.9	83	se.	11	4.9	.....	.....	10 n	.....	se.	0.04	1.0	light rain	J. Gilligan.
Memphis, Tennessee	29.55	750.6	29.89	759.2	67	19.4	84	s.	5	2.2	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.00	736.6	29.76	755.9	50.0	10.0	89	s	10	4.5	.....	.....	10 s	.....	s.	0	0	cloudy	W. Lin-
Mobile, Alabama	29.99	761.7	30.03	762.7	63	17.2	93	se.	1	0.4	.....	0	5 k	.....	s.	0	0	fair	H. U. Jones.
Montgomery, Alabama	29.84	757.9	30.07	763.8	60	15.6	87	se.	5	2.2	.....	1 cs	fg.	.....	.....	0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.62	726.9	29.64	752.8	40	4.4	100	s.	4	1.8	.....	.....	10 s	.....	s.	0.28	7.1	cloudy	H. Bessant.
Mt. Washington, N. H	23.82	605.0	30.16	766 1	29.5	— 1.4	94	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	S. W. Beall.
Nashville, Tennessee	29.35	745.5	29.93	760.2	60.0	15.6	87	se.	7	3.1	.....	7 cs	0	sw.	.....	0.18	4.6	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.19	766.8	41	5.0	86	n.	3	1.3	.....	10ok;cs	sk.	nw.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.15	765.8	30.20	767.1	45.5	7.5	64	n.	1	0.4	.....	5 cs	0	w.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.96	761.0	72.0	22.2	97	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	M. Herman.
New York, New York	30.03	762.7	30.21	767.3	49.0	9.4	71	e.	5	2.2	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	H. J. Peurod.
Norfolk, Virginia	30.14	765.5	30.16	766.1	56.7	13.7	83	se.	2	0.9	.....	6 ck	fg.	w.	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	26.67	677.4	29.63	752.6	32.6	0 3	90	calm	0	0	.....	0	fg.	.....	.....	inap.	inap.	dense fog	E. F. Brady.
Olympia, Washington T'y	29.64	752.8	29.68	753.9	45.0	7.2	93	s.	20	8.9	.....	.....	10 n	.....	.....	0.60	15.2	light rain	J. Dascomb.
Omaha, Nebraska	28.40	721.3	29.60	751.8	51.0	10.6	96	e.	6	2.7	.....	.....	10 s	.....	se.	0.16	4.1	cloudy	A. Pollak
Oswego, New York	29.82	757.4	30.15	765.8	41.0	5.0	73	se.	6	2.7	.....	0	2 k	.....	w.	0	0	clear	J. G. Linsley
Palestine, Texas	29.27	743.4	29.83	757.7	73.0	22.8	00	s.	12	5.4	.....	0	6 ks	.....	s.	0.02	0.5	fair	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	65.8	18.8	97	e.	4	1.8	.....	0	2 ks	.....	e.	0	0	clear	M. McGauran.
Philadelphia, Pa	30.08	764.0	30.18	766.6	51.5	10.8	90	sw.	1	0.4	.....	.....	10s;fg	.....	.....	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.34	440.4	29.62	752.3	4	—15.6	83	sw.	34	15.2	.....	0	0	.....	.....	0.05	1.3	clear	H. Hall.
Pittsburg, Pennsylvania	29.23	742.4	30.05	763.3	50.0	10.0	90	e.	3	1.3	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	G. C. Schaeffer.
Popular River	.....	.....	.....	.....	27	— 2.8	30	w.	.....	.....	1	2 c	0	.....	.....	0	0	clear	
Port Huron, Michigan	29.29	714.0	29.98	761.5	43.3	6.3	93	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry
Portland, Maine	30.12	765.0	30.16	766.1	46.0	7.8	83	n.	5	2.2	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	W. W. Eichelberger.
Portland, Oregon	29.78	756.4	29.85	758.2	46.5	8.1	87	s.	18	8.0	.....	.....	10 n	.....	s.	0.28	7.1	light rain	M. L. Hearne.
Portsmouth, N. C	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	F. P. Chaffee.
Prescott, Arizona	24.67	626.6	29.83	757.7	37.0	2.8	87	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	N. D. Lane.
Provincetown, Mass	30.14	765.5	30.17	766.3	46	7.8	87	n.	2	0.9	.....	0	0	.....	.....	0.06	1.5	clear	C. N. Kitchel.
Red Bluff, California	29.78	756.4	30.14	765.5	47	8.3	93	n.	2	0.9	.....	0	6 ks	.....	s.	0	0	fair	J. R. Williams.
Rio Grande City, Texas	29.56	750 8	29.80	756.9	73.0	22.8	92	se.	3	1.3	.....	0	5 s	.....	s.	0	0	fair	Fred. Belford.
Rochester, N. Y	29.46	748.3	30.13	765 3	40	4.4	86	e	1	4.0	.....	9 k	hz.	w.	.....	0	0	cloudy	E. W. McCann.
Roseburg, Oregon	29.50	749.3	30.00	763.5	45.8	7.7	78	e.	2	0.9	.....	.....	10 n	.....	sw.	0.04	1.0	light rain	J. J. Nanry.
Sacramento, California	30.05	763.3	30.13	765 3	49.2	9.6	96	nw.	6	2.7	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	J. A. Barwick
St. Louis, Missouri	29.11	739.4	29.73	755.1	56.2	13.4	98	se.	12	5.4	.....	.....	10 n	.....	.....	0.24	6.1	light rain	J. H. Weber.
St. Michael, Fort, Alaska	29.44	747.8	29.47	748.5	21	— 6.1	84	w.	9	4.0	.....	0	2 s	.....	.....	0.06	1.5	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.79	731.3	29.66	753.4	46.0	7.8	100	se.	3	1.3	.....	.....	10 n	.....	se.	0.10	2.5	light rain	P. F Lyons.
St. Vincent, Minnesota	28.71	729.2	29.61	752.1	39	3.9	89	calm	0	0	.....	.....	10 s	.....	.....	0.07	1.8	cloudy	C. B Dilley
Salt Lake City, Utah	25.48	647.2	29.88	758.9	34	1.1	81	w.	13	5.8	.....	.....	10 ks	.....	sw.	0.14	3.6	threatening.	J. Craig.
San Diego, California	29.97	761.2	30.01	763.0	54.7	12.6	83	e.	4	1.8	.....	3 k	0	nw.	.....	0.49	12.4	clear	F. R. Day.
Sanford, Florida	30.02	762.5	30.07	763.8	70.5	21.4	93	ne.	2	0.9	.....	0	2 ks	.....	ne.	0	0	clear	J. B. Marbury.
Sandusky, Ohio	29.31	744.5	30.00	762.0	50	10.0	77	s.	8	3.6	.....	.....	10 s	.....	s.	0.02	0.5	threatening.	B. F. Hough.
Sandy Hook, New Jersey	30.17	766.3	30.20	767.1	54.0	12.2	80	ne.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	30.04	763.0	30.11	764.8	51.8	11.0	88	n.	12	5.4	.....	.....	9 s	.....	n.	0.05	1.3	cloudy	N. Gorom.
Savannah, Georgia	30.05	763.3	30.14	765 5	61.7	16.5	92	e	1	0.4	.....	0	18;fg	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	25.97	659.6	29.67	753.6	33	0.6	71	w.	23	10.3	.....	4 k	0	w.	.....	0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.54	750.3	29.78	756.4	71.5	21.9	92	s.	7	3.1	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W M. Matthews
Sitka, Alaska	29.05	737.9	29.12	739.6	36.1	2.3	79	e.	6	2.7	.....	0	4 s	.....	e.	0	0	fair	F. W. Fickett.
Smith, Fort, Arkansas	29.24	742.7	29.72	754.9	60.9	16.1	93	e.	6	2.7	.....	.....	10 s	.....	s.	0.03	0.8	cloudy	J. B. Campbell.
Smithville North Carolina	30.12	765 0	30.16	766.1	57.8	14.3	91	ne.	5	2.2	.....	3 c	0	w.	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.54	699.5	29.62	752.3	38	3.3	100	sw.	11	4.9	.....	.....	10 n	.....	.....	0.26	6.6	light rain	John F. Hemenway.
Springfield, Illinois	29.06	738.1	29.75	755 6	53	11.7	96	se.	6	2.7	.....	.....	10n;fg	.....	.....	0.17	4.3	thnd'r storm	T. B. Jennings.
Stockton, Fort, Texas	26.87	682.5	29.90	759.4	42.0	5.6	82	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.54	750 3	.....	.....	45.2	7.3	97	w.	24	10.7	.....	.....	10 n	.....	w.	0.61	15.5	light rain	R. Connor.
Thomas, Camp, Arizona	27.22	691.4	29.93	760.2	45	7.2	03	se.	.....	.....	1	0	1 ks	.....	.....	0.20	5.1	clear	R. C. Lord.
Toledo, Ohio	29.26	743.2	29.96	761.0	49.2	9.6	84	se.	5	2.2	.....	.....	10 s	.....	sw.	inap.	inap.	threatening.	A. Buell.
Unalaska, Alaska	29.90	759.4	29.93	760.2	39	3.9	54	sw.	8	3.6	.....	0	6 s	.....	sw.	0.10	2.5	fair	Samuel Applegate.
Verde, Fort, Arizona	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	L. B. Montgomery.
Vicksburg, Mississippi	29.69	754.1	29.95	760.7	68.8	20.4	92	se.	10	4.5	.....	0	0	.....	.....	0.08	2.0	clear	James Kenealy.
Washakie, Fort, Wyoming	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T. M. Ambler.
Washington, D. C	30.05	763 3	30.17	766.3	52.2	11.2	84	e.	1	0.4	.....	10 k	0	nw.	.....	0.01	0.3	cloudy	T. B. Harrison.
West Las Animas, Colorado	25.67	652.0	29.60	751.8	24.5	— 4.2	64	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Wilmington, N Carolina	30.12	765.0	30.18	766 6	58.0	14.4	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	Samuel A. Hanes.
Yankton, Dakota	28.29	718 6	29.62	752.3	43.8	6.6	100	n.	1	0.4	.....	.....	10 n	.....	.....	0.08	2.0	light rain	E. H. Thompson.
Yuma, Arizona	29.81	757.2	29.96	761.0	45.1	7.3	97	sw.	1	0.4	.....	0	0	.....	.....	0.05	1.3	clear	W. S. Delano
Sub-series.																			
Bluefields, Nicaragua	.....	.....	.....	.....	78	25.6	.....	nw.	.....	.....	2	0	8 ks	.....	ne.	0.03	0.8	cloudy	W. H. Jackson.
Bogota, U. S. C	22.00	558.9	.....	.....	53.2	11.8	82	calm	0	0	.....	.....	10 s	.....	w.	0.311	7.9	.....	Joaquin Gomez.
Kingston, Jamaica, W. I	.....	.....	29.93	760.2	74.6	23.7	91	calm	0	0	.....	9 cs	1 s	.....	e.	0.14	3.6	cloudy	Robert Johnstone
Paramaribo, S. A	30.03	762.7	30.03	762.7	80	26.7	86	e.	.....	.....	2	4 c	5 k	e.	.....	0	0	fair	Dr. C. J. Herum.
Puerto Berrio, U. S. C	29.28	743.7	29.84	757.9	80	26.7	85	s.	.....	.....	1	5 ck	5 ks	s.	s	0	0	cloudy	Francisco J. Cisnares.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	75	23.9	89	e.	.....	.....	1	.....	2 ks	.....	ne.	0	0	fair	Earl Flint.
York Factory, B. A	30.19	766.8	30.26	768.6	31.5	— 0.3	95	nw.	9	4.0	.....	4 k	2 s	n.	nw.	0	0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill	Character.	Direction from	
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 20′, E. 26° 17′	30.12	765.0	74	23.3	68	ne.			1		2	ne.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	29.98	761.5	71	21.7	73	wnw.			4		4	wnw.						d. clouds.
H. M. S. Flamingo, N. 38° 40′, W. 65° 40′	29.99	761.7	62	16.7	100	n.			6		3	nnw.				4	nnw.	squally.
H. M. S. Himalaya, N. 36° 26′, W. 51° 30′	29.80	756.9	67	19.4	95	w.			4		8					3	wnw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	29.99	761.7	76	24.4	95	nnw.			2		2							d. clouds.
H. M. S. Inflexible, N. 37° 00′, W. 16° 00′			66	18.9	89	nw.			4		8	ne.				3	nw.	showery.
H. M. S. Monarch, Smyrna, Turkey in Asia	30.08	764.0	73	22.8	67	ene.			2		8	wsw.						d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.97	761.2	81	27.2	83	sse.			1			calm						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.95	760.6	86.0	30.0	74	sse.			2		5					3	se.	d. clouds
U. S. Navy Yard, Portsmouth, N. H*	30.11	764.8	45	7.2	92	n.	2	0.9			10		nw.	0	0			cloudy.
U. S. S. Jamestown, N. 39° 00′, W. 72° 40′	30.15	765.8	55	12.8	87	nw.			2		8		w.			sm'h		cloudy.
U. S. S. Kearsarge, Algiers, Africa	30.19	766.8	70	21.1	75	nne.			1		8		calm					cloudy.
U. S. S. Lancaster, Algiers, Africa	30.16	766.1	73	22.8	90	ese.			1		5		calm			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I*	30.14	765.5	48	8.9	85	nne.			3		0					sm'h		clear.
U. S. S. Powhatan, Boston, Mass	30.17	766.3	44	6.7	92	n.			1		0							clear.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	67	19.4	55	ne.			1		0							clear.
U. S. S. Saratoga, Poughkeepsie, N. Y	30.23	767.8	47	8.3	100	nne.			1–2		10		nne.	0	0	sm'h		overcast.
U. S. S. Swatara, Port au Prince, Hayti, W. I	29.93	760.2	79	26.1	86	ese.			1		8			light	light	sm'h		cloudy.
U. S. S. Vandalia, New York N. Y	30.23	767.8	52	11.1	79	e.			1		10							cloudy.
S. S. British Crown, N. 39° 00′, W. 71° 20′†	30.15	765.8	61	16.1		n.			3		3		n.	0	0	sli't	n	fine.
S. S. British Prince, N. 51° 42′ W. 21° 27′*†	29.50	749.3	50	10.0		w.			6		6		w.	6 h'r	6 h'r	mod	wsw.	cloudy
S. S. British Princess, N. 49° 05′ W. 30° 51′†	29.77	756.1	49	9.4		w.			4		6?		w.	8 h'r	8 h'r	mod	sw.	clear?
S. S. Lord Gough, N. 40° 12′, W. 69° 18′	30.04	763.0	50	10.0		nnw.			3		5		n.	0	0	sm'h		fair.
S. S. Ohio, N. 44° 07′, W. 55° 46′†	29.61	752.1	44	6.7	?	ne.			7		10		ne.	12 h'r	12h'r	large	ne.	cloudy.
S. S. Scandinavian, N. 55° 26′, W. 16° 21′*	29.80	756.9	52.5	11.4		sse.			6		3		sse.	0	0	cross	var.	d. clouds.
S. S. Sardinian, N. 49° 20′, W. 66° 09′	30.18	766.6	34	1.1		ne.			3		10			0	0	sm'h		cloudy
S. S. Alvo, Kingston, Jamaica, W. I*	29.91	759.7	78	25.6		var.			2		6		calm	2 h'r	2 h'r	short	ese.	fine.
S. S. Andes, N. 38° 30′, W. 73° 00′*†	30.20	767.1	58	14.4		calm			0		10		sw.			sm'h		fine.
S. S. Ailsa, N. 12° 01′ W. 78° 43′			79	26.1	100	nne.			2		0			4 h'r	4 h'r	light	ne.	fine.
S. S. Avilla, San Juan, Porto Rico, W. I			82	27.8		calm			0		2			0	0	sm'h		
S. S. Devonia, N. 40° 20′, W. 70° 25′*†	30.10	764.5	52	11.1		nne.			2		3		ne.			short	ene.	clear.
S. S. Dorian, Boston, Mass	30.18	766.6																
S. S. Ethiopia, N. 55° 08′, W. 18° 00′			54	12.2	100	wsw.			6		10		w.	4 h'r	4 h'r	5	wsw.	raining.
S. S. Carroll, N. 43° 15′, W. 66° 20′*†	30.17	766.3	46	7.8	?	nne.			3		2		nne.	0	0	long	e.	clear.
S. S. Llandaff City, N. 40° 08′. W. 67° 35′			45	7.2		n.			5		7		ne.	0	0	high	ne.	dull.
S. S. Cephalonia, N. 42° 20′, W. 69° 37′	30.14	765.5	51	10.6	93	nw.			3		5		nw.	0	0	sm'h		d. clouds
S. S. Pavonia, N. 42° 12′, W. 50° 18′*	29.27	743.4	65	18.3	84	w.			4		7		sw.	7 h'r	7 h'r	cross		cloudy.
S. S. Scythia, N. 43° 00′, W. 55° 14′	29.59	751.6	53	11.7	100	n.			6		6		n.	5 h'r	5 h'r	h'vy	n.	raining.
S. S. Samaria, N. 49° 50′ W. 25° 10′*	29.72	754.9	52	11.1		wnw.			6		3		w.	5 h'r	5 h'r	h'vy	nw.	fair.
S. S. Canada, N. 44° 10′, W. 56° 27′*	29.63	752.6	43.7	6.5		nne.			6					0	0	h'vy	nne.	hazy.
S. S. France, N. 44° 27′, W. 52° 43′*†	29.67	753.6	51.8	11		nne.			7		10		nne.	rain	rain	h'vy	ne.	overcast.
S. S. Olinde Rodrignes, N. 10° 37′, W. 67° 00′			87	30.6		calm			0		0			1 h'r	1 h'r	mod.	ne.	clear.
S. S. Bohemia, N. 40° 45′, W. 67° 19′						n.			4–5		7			0	0	sm'h	nne.	cloudy.
S. S. Frisia, N. 49° 50′, W. 12° 48′	29.82	757.4	56	13.3		ssw.			4–5		4?		wsw.	0	0	long	w.	covered?
S. S. Gellert, N. 45° 37′, W. 47° 50′	29.49	749.0	48	8.9	85	ene.			5		7		nw.	3 h'r	3 h'r	r'gh	ene.	cloudy.
S. S. Lessing, N. 41° 52′, W. 56° 58′	29.55	750.6	59	15.0		nnw.			8		10		nnw.	4 h'r	4 h'r	cross	nnw	rainy.
S. S. Westphalia, New York, N. Y	30.18	766.6	51	10.6	79	e.			1		3		e.					fair.
S. S. Rhaetia, N. 48° 56′, W. 38° 42′	29.80	756.8	49	9.4	93	wnw.			5		7		wnw.	0	0	mod.	nw.	cloudy.
S. S. Nessmore, N. 51° 02′ W. 21° 18′	29.58	751.3	55	12.8	93	wnw.			6		4		w.	3 h'r	3 h'r	cross	s;nw	clear.
S. S. Virginian, N. 50° 40′, W. 21° 40′*			50	10.0		nw.			6				nw.	½ h'r	½ h'r	cross		cloudy.
S. S. Archimedes, N. 6° 59′, W. 28° 33′	29.92	760.0				e.			4		2		se.	0	0	light	e.	fine.
S. S. Hevelius, Liverpool, Eng	30.24	768.1	56	13.3		s.			4				s.	0	0			hazy.
S. S. Sirius, N. 23° 04′, W. 60° 40′	30.02	762.5				se.			1		1		calm	0	0	mod.	se.	clear.
S. S. Rio Grande, N. 28° 10′, W. 91° 09′†	29.93	760.2	84	28.9		sse.			5		5?		se.	0	0	mod.	sse.	clear.
S. S. Lampassas, New York, N. Y			59	15.0		e.			4		10		se.	0	0			overcast.
S. S. Chalmette, N. 30° 35′, W. 79° 45′†	30.13	765.3	76	24.4		ne.			3		2		ne.	½ h'r	½ h'r	sm'h		clear.
S. S. Alleghany, Baltimore, Md†	30.19	766.8	54	12.2		calm			0		10			0	0			overcast.
S. S. Archimede, N. 36° 56′, W. 19° 56′†	29.84	757.9	74	23.3		s.			4		6		s.	1 h'r	1 h'r	sm'h	ssw.	cloudy.
S. S. City of Washington, Vera Cruz, Mexico*†	29.80	756.9	85	29.4		s.			2		2		ene.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 22° —, W. 74° —			80	26.7		e.			4		9		ene.	18h'r	18 h'r	gentle	e.	cloudy.
S. S. Grecian, Liverpool, Eng	30.16	766.1	58	14.4	88	s.			4		10		s.	0	0			cloudy.
S. S. England, N. 49° 10′, W. 30° 26′	29.81	757.2				nw.			3		0			sq'lls	sq'lls	h'vy	n.	squally.
S. S. Erin, N. 40° 27′, W. 70° 20′			53	11.7		nnw.			3		0			0	0	sm'h		clear.
S. S. Holland, N. 41° 21′ W. 54° 56′	29.48	748.8	62	16.7		n.			6		5		n.	4 h'r	4 h'r	high	nw.	fair.
S. S. The Queen, N. 40° 55′, W. 67° 12′			49	9.4		nnw.			4		2		nnw.	0	0	sm'h		clear.
S. S. America, N. 49° 09′, W. 22° 09′*	29.55	750.6	54.0	12.2	74	nnw.			5		5		nw.	0	0	long	nw.	fair.
S. S. Donau, N. 48° 58′ W. 22° 10′						n.			6		6		n.	10 h'r	10 h'r	r'gh	n.	fair.
S. S. Elbe, N. 46° 32′, W. 46° 54′			43.7	6.5	85	ne.			3		10		ne.	0	0	mod.	ne.	covered.
S. S. Hermann, N. 50° 03′, W. 15° 40′	29.70	754.4	53.6	12.0	88	s.			6		3?		s.	4 h'r	4 h'r	high	w.	covered?
S. S. Orinoco, N. 40° 00′, W. 73° 30′†	30.20	767.0	58	14.4		e.			2		10		calm	0	0	light	e.	overcast.
S. S. Main, N. 49° 28′ W. 37° 13′	29.76	755.9	46.4	8.0		nw.			5		4		nnw.	10 h'r	10 hr	mod.	nnw.	fair.
S. S. Neckar, N. 40° 20, W. 69° 44′			51.0	10.6	79	n.			2–3		3		n	0	0	sm'h	n.	clear.
S. S. Ohio, N. 39° 00′, W. 66° 02′						nne.			5–6		6		nne.	1 h'r	1 h'r	mod	nne.	fair
S. S. Rhein, N. 49° 55′, W. 18° 31′	29.67	753.6				ssw.			6		8		sw.	4 h'r	4 h'r	hv'y	sw.	cloudy.
S. S. Weser, N. 42° 22′, W. 45° 51′	29.43	747.5	67.1	19.5		s.			7		10		s.	8 h'r	8 h'r	cross	s.	drizzling.
S. S. City of Augusta, N. 37° 10′, W. 74° 50′†	30.19	766.8				e.			3		10		ese.			sm'h		threatening.
S. S. Muriel, N. 30° 37′, W. 68° 50′	30.00	762.0	76	24.4		nnw.			3		0			0	0	mod.	n.	clear.
S. S. Rhynland, N. 47° 19′, W. 44° 39′	29.66	753.4	51	10.6		wsw.			5		4		sw.	4 h'r	4 h'r	mod.	n.	squally.
S. S. Pennland, off Portsmouth, Eng†	30.13	765.3	56	13.3	94	se.			3		8		se.	0	0	sm'h	sw.	cloudy.
S. S. Switzerland, N. 50° 30′ W. 28° 42′*†	29.77	756.1				w.			4		2		w.	7 h'r	7 h'r	long	wnw.	clear
S. S. Vaderland, N. 41° 36′, W. 59° 00′			54	12.2		nne.			6		10		ne.	8 h'r	8 h'r	high	ene.	raining.
S. S. Waesland, N. 40° 27′, W. 70° 20′			52	11.1		n.			3		0			0	0			clear.
S. S. P. Caland, N. 48° 05′, W. 41° 40′	29.75	755.6	48.0	8.9	78	ssw.			1		8		wsw.			3	n.	cloudy.
S. S. Schiedam, N. 41° 56′, W. 61° 30′	29.90	759.4	55.2	12.9	86	nnw.			6		7		nne.	6 h'r	6 h'r	h'vy	var.	squally.
S. S. Zaandam, Amsterdam, Holland	30.30	769.6	56.1	13.4	96	ne.			3		7		e.	0	0			fair.
S. S. Caracas, Curacoa, W. I*†	29.91	759.7	84	28.9	83	e.			3		2		e.	0	0	sm'h		clear.
S. S. W. A. Scholten, N. 49° 58′ W. 12° 13′	29.86	758.4	59.0	15.0	94	s.			4		8		s.	0	0			
S. S. Valencia, N. 37° 35′, W. 73° 13′*†	30.04	763.0	60	15.6	76	n.			2		5	sw.	ese.	0	0	long	ene.	fair.
S. S. State of Indiana, N. 42° 36′, W. 59° 05′*†	29.75	755.6	49	9.4		n.			6		8		ne.	4 h'r	4 h'r	r'gh	ese.	cloudy.
S. S. State of Alabama, N. 35° 49′, W 44° 27′*†	29.74	755.4	72	22.2		w.			5		10		w.	2 h'r	2 h'r	mod.	sw.	raining.
S. S. Thingvalla, N. 58° 03′, E. 7° 56′			50.9	10.5		nne.			1		1		nne.	0	0	sm'h	nne.	clear.
S. S. Romano, N. 48° 44′, W. 12° 08′			60	15.6		se.			3		3		se.	0	0	sm'h		clear.
S. S. Salerno, N. 40° 36′, W. 70° 42′†	30.18	766.6	52	11.1		nw.			2		2		n.	0.3	8.	sm'h		clear.
S. S. Dominion, N. 56° 50′ W. 19° 18′*†	29.44	747.8	53	11.7		wsw.			6		8		sw.			rg'h	sw.	cloudy.
S. S. Oregon, N. 49° 18′, W. 65° 15′	30.19	766.8	33	0.6		ne.			1		0					mod	ne.	clear.
S. S. Texas, N. 36° 05′, W. 25° 50′*†	30.07	763.8	70	21.1	90	ssw.			6		0			0	0	mod.	sw.	clear.
S. S. Olbers, N. 47° 50′, W. 36° 31′	29.92	760.0	53	11.7	97	var.			2		6		var.	0	0	mod.	var.	fine.
S. S. Daniel Steinmann, N. 46° 01′, W. 46° 37′			50	10.0		ene.			5		10			1 h'r	1 h'r	r'gh	ene.	raining.
S. S. Plantyn, N. 48° 05′, W. 39° 44′	29.80	756.9							6		5		nnw.	7 h'r	7 h'r	long	wsw.	
S. S. Britannic, N. 40° 35′ W. 69° 00′			49	9.4		n			3		2		ne.	0	0	long	ne.	d. clouds.
S. S. Celtic, N. 49° 11′, W. 38° 04′†	29.82	757.4	55	12.8		nw.			3		8		nw.	0	0	h'vy	n.	squally.
S. S. Iowa, N. 46° 00′, W. 49° 23′†	29.58	751.3	45	7.2		ne.			6		10		ne.	6 h'r	6 h'r	r'gh	ne.	cloudy.
S. S. Assyrian Monarch, English Channel						ese.			4		8		e.	0	0	sm'h		hazy.
Bk. Arda, N. 20° 14′, W. 65° 39′						e.			2		4		e.	0	0	mod	e.	clear

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.34	770.6	51	10.6	93	wnw.			2		8		wnw.	0	0			cloudy.
Bg. Abbie Clifford, Fort de France, Hayti†	29.94	760.5	81	27.2		e.			2		2			1 h'r	1 h'r			fine.
Schr. Arthur Burton, Charleston, S. C†	30.17	766.3				ne.			1		2		ne.	0	0	sm'h		clear.
S. S. Antonio Lopez, Barcelona, Spain*	30.17	766.3	67	19.4	82	calm			0		8			½h'r	½h'r			squally.
Bg. Alcira N. 10° 57′, W. 71° 45′	29.92	760.0	84	28.9		ene.			2		6		ene.	0	0			hazy.
Bgt. Achsah, N. 38° 09′, W. 62° 51′†	29.88	758.9	65	18.3		nnw.			3		5		nnw.	0	0	rg'h	nnw.	fair.
Schr. Adda Doane, Port Spain, Trinidad*†	29.94	760.5				ese.			1		2		se.	0	0	sm'h		clear.
Bg. Belle of the Bay, N. 30° 13′, W. 88° 30′						se.			5		5		se.	0	0	mod.	se.	fair
Schr. Clotilde, N. 22° 30′, W. 97° 28′†	29.85	758.2	84	28.9		se.			4		8		sse.	0	0	r'gh	sse.	cloudy.
Schr. C. R. Flint, N. 17° 12′, W. 73° 50′†	29.95	760.7	83	28.3		e.			4		3		ssw.	1 h'r	1 h'r	mod.	e.	clear.
S. Carondelet, N. 32° 00′, W. 44° 25′*†	30.06	763.5				ssw.			4		9		ssw.	5 h'r	5 h'r	long	n.	cloudy.
S. David Stewart, Chesapeake Bay†	30.20	767.1	66	18.9		se.			6		5		se.					
S. E. J. Spicer, New York, N. Y	30.22	767.6	51	10.6	86	ese.			2		10		sw.	0	0			cloudy.
Bk. E. D. Bigelow, N. 26° 54′, W. 89° 10′†	29.95	760.7	83	28.3		sse.			4		3		sse.	0	0	mod	sse.	fine.
U. S. Fish. Com. S.S. Fish Hawk, Norfolk, Va			65	18.3	94	se.			1		10		se.	0	0			cloudy.
Bk. Galeon, N. 30° 35′, W. 75° 00′†	30.15	765.8	75	23.9		ne.			4		3		nne.	0	0	sm'h	n.	blue sky.
Bk. Hattie G. McFarland, Barbadoes, W.I†	29.97	761.2	78	25.6		ese.			2		8		se.	4 h'r	4 h'r			
S. Hedwig, N. 37° 16′, W. 73° 16′			59.0	15.0	86	nnw.			1		8		var.	0	0	2	ene.	
Bk. Heinrich & Tonio, N. 43° 45′, W. 37° 30′†	29.89	759.2	59	15.0		sse.			3		10		s.	0	0	high	n.	overcast.
Schr. Isabel Alberto, N. 34° 38′, W. 75° 36′						nnw.			2		2		n	0	0	mod.	ne.	clear.
Schr. Jennie N. Huddell, N. 36° 30′, W. 75° 20′†	30.23	767.8	62	16.7	77	calm			0		5		ne.	0	0	light	ne.	fair.
Bg. John Wesley, N. 8°, 56′, W. 44° 06′			80	26.7		ene.			3		10		ese.	4 h'r	4 h'r	high	ne.	heavy rain.
Bk. John H. Pearson, N. 18° 51′, W. 38° 20′						e.			4				e.	0	0	long	nnw.	clear.
Schr. John Bracewell, Portsmouth, N. H†	30.14	765.5				nne.			1		9		ene.	0	0			cloudy
Bg. Josefa, N. 33° 08′, W. 71° 47′†	30.17	766.3				n			4		2		n.	0	0	sm'h	nw.	clear.
Bkt. John Batzley, N. 37° 00′, W. 49° 30′*†	29.63	752.6				nnw.			7		10		sw.	6 h'r	6 h'r	cross	var.	cloudy.
Bg. Lilian, off Chincoteague, Va†	30.19	766.8	57	13.9		se.			2		10			0	0	sm'h	ene.	cloudy.
Bg. L. & W. Armstrong, N. 29° 37′, W. 64° 58′*†	30.04	763.0				nnw.			4		1		nw.	0	0	sm'h	nw.	fine.
S. S. Madrid, N. 45° 02′, W. 8° 12′†	29.88	758.9	61	16.1	94	ese.			4		3		ese.	0	0	mod.	nnw.	fair.
S. S. Mendoza, N. 14° 39′, W. 52° 22′						se.			2				se.	7 h'r	7 h'r	sm'h	ne.	clear.
Bk. Matthias, N. 48° 18′, W. 16° 19′*†	29.72	754.9	62.0	16.7		s.			6		4		s.	0	0	3	ssw.	fair.
Schr. Norena, Humacao, Porto Rico						ne.			2		2		e	2 h'r	2 h'r			
Bk. National Eagle, N. 27° 28′, E. 0° 28′						calm			0				ese.	0	0	sm'h		clear.
Schr. Rollin Sanford, Key West, Fla†	30.01	762.2				ne.			5		2		ene.	0	0			fair.
Bg. Rising Sun, San Juan, Porto Rico†	29.98	761.5	82	27.8														
Bk. Rosalie, N. 0° 45′, W. 30° 21′*†	29.91	759.7				se.			3		0			0	0	light	sse.	clear.
Bk. Saga, N. 53° 08′, E. 3° 04′*†	30.19	766.8	59.5	15.3		var.			2		9		var.	0	0	sm'h		cloudy.
S. Salisbury, N. 36° 03′, E. 15° 02′	30.01	762.2	66.7	19.3	88	nw.			4		10 kn			½ h'r	½ h'r	mod.	ne.	cloudy.
Bgt. Sunlight, N. 25° 33′, W. 58° 42′ †	30.04	763.0				ssw.			1		6		sw.	0	0	h'vy	se.	fair.
Bk. Samuel B. Hale, N. 6° 58′, W. 26° 55′						e.			4				e.	0	0	short	nne.	hazy.
Bk. Sunbeam, Rotterdam, Holland †	30.24	768.1	58	14.4	88	ene.			3		10		ene.	0	0			overcast.
Bk. Scud, N. 16° 55′, W. 63° 48′*†	29.98	761.5	86	30.0		ene.			5		3		ene.	0	0	mod.	ne.	clear.
S. St. Francis, N. 22° 37′, W. 38° 25′			78	25.6		ene.			3		3		ene.	0	0	sm'h	ne.	fair.
Bk. St. Lawrence, N. 23° 07′, W. 63° 57′*†	30.05	763.3				ne.			1				nne.			long	nne.	fair.
Bk. Southern Belle, N. 25° 35′, W. 35° 50′†	29.91	759.7	67	19.4		nw.			4		2		n.	0	0	h'vy	n.	clear.
Bk. Tuck Sing, N. 32° 52′, W. 71° 32′*†	30.13	765.3				n.			3		2		nnw.	0	0	mod.	nne.	fine.
Schr. Walter L. Plummer, N. 20° 25′, W. 68° 16′*†	30.00	762.0				e.			2		8		se.			sm'h	ese.	threatening.
Bk. Pilgrim, N. 13° 24′, W. 46° 40′						ene			5		4		ene.	0	0	mod.	ene.	fair.
Bk. Achille F, N. 5° 45′, W. 47° —′†	29.93	760.2	83	28.3		se.			1		9		sw.	0	0	long	s.	
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.95	760.[illegible]	57	13.9	75	sse.			6		2					3	sse.	blue sky.
H. M. S. Boadicea, Angra Penguena, Namaqualand	29.98	761.5	67	19.4	89	s.			3		0							blue sky.
H. M. S. Sylvia, S. 35° 26′, W. 56° 08	30.02	762.5	56	13.3	69	s			4–6		2	calm				4	s.	blue sky.
U. S. S. Brooklyn, S. 34° 56′, E. 2° 25′ *	30.21	767.3	60	15.6	82	calm	0	0			10		calm	0	0	long	ese.	cloudy.
U. S. S. Nipsic, S. 35° 10′, W. 57° 05′*	30.02	762.5	56	13.3	?	sw.			4–5		2					sm'h		fair
S. S. Rosse, S. 16° 34′, W. 37° 25′ *	30.00	762.0	81	27.2		nne.			5		0							clear
S. S. Teniers, S. 13° 34′, W. 36° 55′	30.05	763.3	80	26.7	80	ne.			4	c	6 kn	nw.		0.08	2.0	3	ene.	misty.
Bk. Alpheus Marshall, S. 32° 30′, W. 17° 30′*†	30.05	763.3	60	15.6	76	ssw.			4		5		sw.	½ h'r	½ h'r	mod.	s.	fair.
S. Armenia, S. 56° 15′, W. 66° —′*	29.37	746.0	51	10.6	79	w.			6		6		w.	1 h'r	1 h'r	r'gh	w.	fair.
Bk. Bore, S. 19° 13′, W. 3° 02′ *†	30.55	776.0	70	21.1		e.			3		1		e.	0	0	sm'h	se.	clear.
Bk. Ceylon, S. 14° 48′, W. 35° 37′†	30.10	764.5	82	27.8	83	ne.			4		1			0	0	sm'h	ne.	fine.
S. Dynomene, S. 10° 30′, W. 33° 16′	30.02	762.5	79.8	26.6	87	e.			3		4			0	0	mod.	ese.	d clouds.
S. David Crockett, S. 0° 48′, W. 38° 43′*	29.90	759.4	81	27.2	78	ese.			3		3		ese.	0	0	sm'h	se.	d. clouds.
S. Frank N. Thayer, S. 26° 59′, E. 8° 43′*†	30.17	766.3	65	18.3	73	se.			2		9 ks		se.	0	0	mod.	sw.	d. clouds.
Bkt. Louise Adelaide, S. 27° 10′, W. 40° 40′†	29.81	757.2				w.			3		7		w.	15 h'r	15 h'r	r'gh	ne.	fair.
Bgt. Willie, Montevideo, Uruguay*†	30.08	764.0	60	15.6		s.			5		2		s.	4 h'r	4 h'r	short	s.	clear.
Bk. Childwall, S. 41° 53′, W. 1° 32′*	30.14	765.5	58	14.4		nne.			6		10		nne.	0	0	sm'h		fair.
District No. 3—North Pacific.																		
H. M. S. Audacious, Kobe Bay, Japan	30.14	765.5	65	18.3	94	ene.			3		10	ene.						drizzling.
H. M. S. Flying Fish, Shanghai, China	30.22	767.6	60	15.6	91	nw.			2		10					1	n.	drizzling.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.84	757.9	80.5	26.9	87	s.			1		5							d clouds.
H. P. M. S. Tamega, Macao, China	30.05	763.3	79.2	26.2	84	ne.			4		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan			54.5	12.5	97	calm			0		10		n.	1.06	26.9			raining.
U. S. S. Essex, Nagasaki, Japan	30.13	765.3	68	20.0	100	nne.			1		10							raining.
U. S. S. Hartford, Panama, Panama*	29.79	756.7	77	25.0	91	nw.			3		5			0	0			fair.
U. S. S. Juniata, Canton, China	30.15	765.8	73	22.8	90	n.			2		2		n.	0	0			clear.
U. S. S. Monocacy, N. 33° 46′, E. 126° 33′	30.22	767.6	63	17.2	78	ne.			3		5		ne.			sm'h		fair.
U. S. S. Pensacola, Sakate Bar, Japan			67	19.4	95	se.			1		10			hv'y	hv'y			rainy.
U. S. S. Ranger, N. 28° 35′, W. 117° 27′	30.05	763.3	62	16.7	66	nnw.			3–4		10			0	0			overcast.
U. S. S. Richmond, Kobe, Japan	30.17	766.3	64	17.8	94	ene.			3		10		ene.	1.1	28.			raining.
S. S. City of Chester, near Point Reyes, Cal†	30.12	765.0	53	11.7	86	ne.			2									clear.
S. S. Columbia, N. 40° 36′, W. 124° 32′†	30.13	765.3	52	11.1	87	se.			1		4		n.			mod	nw.	clear.
S. S. Willamette, N. 38° 47′, W. 123° 48′†	30.13	765.3	55	12.8	93	n.			5		0			0	0	mod.	nnw.	clear.
S. S. Ancon, Point Loma, Cal†	30.02	762.5	58	14.4	76	sw.			2		0			0	0	light	wsw.	clear.
S. S. Queen of the Pacific, Astoria, Oregon†	29.76	755.9	50	10.0	100	sse.			6		10		sse.	5 h'r	5 h'r			rainy.
S. S. Victoria, off Bodega Head, Cal†	30.06	763.5	52	11.1	79	n.			3		0					mod.	wnw.	fair.
S. S. City of Pekin, N. 43° 50′, E. 167° 51′†	30.31	769.9	47	8.3	70	n.			5		5		n.	0	0	light	n.	fair.
S. S. City of Sydney, N. 35° 00′, W. 129° 15′ *†	30.23	767.8	52	11.1	93	nw.			1	2 c		n.				lmp'y	n.	clear.
S. S. City of Rio de Janeiro, N. 35° 17′, W. 138° 35′†	30.35	770.9	64	17.8	83	wnw.			2		5		wnw.	0	0	mod.	nw.	fair.
S. S. Colima, Panama, Panama†	29.89	759.2	80	26.7	74	nnw.			2		4		nw.	0.20	5.1			clear.
S. S. San Blas, N. 29° 44′, W. 116° 44′†	30.02	762.5	59	15.0		nw.			5		3		nw.	0	0	mod.	nw.	clear.
S. S. San Juan, N. 14° 20′, W. 91° 57′			83	28.3		ese.			2		58		e.	0	0	light	sse.	fine.
S. S. Zealandia, Honolulu, Sandwich Islands	30.03	762.7	78	25.6	82	ese.			4		10			0	0			cloudy.
S. S. Alameda, Honolulu, Sandwich Islands†	29.99	761.7	74	23.3		se.			2		10		ese.	4 h'r	4 h'r			overcast.
S. Parker M. Whitmore, N. 11° 52′, W. 120° 35′ *†	29.88	758.9	79	26.1		calm			0		3		ene.	0	0	cross	var.	fair.
S. Sovereign of the Seas, N. 11° 54′, W. 119° 52′			78	25.6	91	calm			0		4			0	0	chop	nne.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.83	757.7	81.3	27.4	91	n.			2		0					sm'h		thund'r st'm
H. M. S. Mutine, Coquimbo, Chili	30.03	762.7	56	13.3		nw.			2		10							misty.
H. M. S. Nelson, Sydney, N.S. W	30.07	763.8	58	14.4	59	s.			2–5		10							raining.
U. S. S. Iroquois, Callao, Peru	30.02	762.5	61	16.1	82	sw.			1		10					sm'h		cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
District No. 4—South Pacific.—Continued.																		
U. S. S. Lackawanna, Valparaiso, Chili*	29.92	760 0	58	14.4	82	calm	.....	.....	0	.....	5	.....	s	.....	.....	.....	.....	fair.
U. S. S. Onward, Callao, Peru*†	30.10	764.5	59	15.0	88	sw.	.....	.....	1	.....	10	.....	ssw.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili*	29.97	761.2	56	13.3	94	calm	.....	.....	0	.....	2	.....	calm	.....	.....	sm'h	.....	fair.
S. S. Australia, Sydney, N. S. W	30.21	767 3	62	16.7	77	s.	.....	.....	5	.....	8?	.....	se	0	0	.....	.....	clear?
S. S. City of New York, Sydney, N. S. W †.....	29.75	755.6	58	14.4	82	wsw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. E. L. Pettingill, S. 58° 32′. W. 71° 53′*†.....	29.15	740 4	34	1.1	.....	w.	.....	.....	7	.....	8	.....	w.	rain	rain	h'vy	wsw.	cloudy.
S. E. B. Sutton, S. 31° 30′, W. 123° 30′ *†.....	30.14	765 5	68	20.0	95	ene.	.....	.....	6	.....	10	.....	ene.	10 h'r	10 h'r	hv'y	var.	raining.
S. J. W. Gildemeister, S. 31° 30′, E 155° 40′	29.78	756.4	66.2	19.0	63	sw.	.....	.....	5	.....	2	.....	sw.	.....	.....	5	n; sw.	d. clouds.
Bk. Chas. Stewart, S. 7° 00′, W. 81° 50′†.....	30.06	763.5	65	18.3	.....	sse.	.....	.....	6	.....	fg.	.....	se	.....	.....	long	sse.	overcast.
S. Storm King, S. 35° 47′, W. 119° 56′*†.....	30.45	773.4	.....	.....	.....	e.	.....	.....	6	.....	2	.....	var.	12 h'r	12 h'r	long	s.	
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, S. 0° 20′ E. 44° 40′.....	29.92	760.0	80	26.7	87	e.	.....	.....	1	.....	4	calm	.....	.....	.....	.....	.....	d. clouds.
H. M. S. London, Zanzibar, Zanzibar.....	29.93	760.2	79	26.1	91	calm	.....	.....	0	.....	2	sse.	.....	.....	.....	.....	sse.	blue sky.
H. M. S. Tourmaline, S. 9°, 00′ E. 44° 00′.....	29.97	761.2	81	27.2	83	ese.	.....	.....	2	.....	2	ese.	.....	.....	.....	4	ese.	blue sky
H. M. S. Woodlark, Bushire, Persia	30.15	765.8	79.5	26.4	74	wnw.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	misty.
Bk. Great Surgeon, Sunda Strait, Java*†	30.02	762.5	82	27.8	.....	s.	.....	.....	3	.....	10	.....	w.	2 h'r	2 h'r	sm'h	s.	cloudy.
Bk. Mohican, S. 41° 07′, E 53° 43′	29.58	751.3	56	13.3	.....	n.	.....	.....	7	.....	10	.....	nne.	0	0	r'gh	nnw.	cloudy.
S. S. Radnorshire, N. 10° 50′, E. 57° 00′*†.....	29.92	760.0	.....	.....	.....	ne.	.....	.....	4	.....	0	.....	.....	4 h'r	4 h'r	sm'h	.....	clear.
S. S. Strathleven, N. 4° 00′, E. 99° 35′	29.82	757.4	81.5	27.5	80	nw.	.....	.....	4	.....	9	.....	n.	1 h'r	1 h'r	3	nw.	overcast.
S. S. Galatia, N. 27° 53′, E. 33° 37′†	29.91	759.7	78	25.6	86	wnw.	.....	.....	4	.....	2	.....	wnw.	0	0	mod.	wnw.	fair.
H. M. S. Champion, N. 4° 40′, E. 99° 50′	29.87	758.7	82	27.8	87	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 29, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.1	70.9	21.6	79	e.			1		9			0	0	very cloudy	Roziere.
Algiers			30.08	764.0	70.5	21.4	68	n.			1		0			inap.	inap.	clear	Thève.
La Galle			30.10	764.6	70.9	21.6	81	e.			4		3			0	0	pretty fair	Fonfrède.
Tunis			30.17	766.2	68.7	20.4	63	ene.			3		2			0	0	fair	Delord.
Saida			30.11	764.9															Pérés.
Tebessa					64.4	18.0	62	w.			1		1			0	0	very fair	St. Martin.
Geriville					73.4	23.0	13	w.			3		4			inap.	inap.	cloudy	Forfert.
Laghouat			30.21	767.2	75.6	24.2	48	sw.			3		3			0	0	pretty fair	Abraham.
Biskra			30.20	767.1	77.0	25.0	48	se.			2		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.21	767.3	53.8	12.1	76	ssw.	14	6.3			10 k; n			0.100	2.5	threatening.	Charles Todd, F. R.A.S.
Melbourne, Victoria	29.86	758.4	29.95	760.7	50.8	10.4	81	w.	15	6.7			6			0.14	3.6	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.73	755.1	30.28	769.0	63.0	17.2	53	ne.			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.60	751.8	30.37	771.5	55.4	13.0	77	wnw.	11.9	5.3			1			0	0		Dr. Wierzbiski
Eperies	29.43	747.5	30.31	769.8	60.1	15.6	64	nw.			1		0			0	0		Julius Mikolik.
Gratz	29.05	737.8	30.30	769.6	58.3	14.6	68	s.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.85	732.8	30.28	769.0	61.5	16.4	54	se.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28 90	734.1	30.28	769.0	46.4	8.0	93	calm			0		10			0	0	cloudy	The Staff.
Lemberg	29.41	747.1	30.41	772.5	52.0	11.1	86	ne.			1		10			0	0		Dr. T. Stanecki.
Pola	30.05	763.3	30.16	766.1	63.3	17.4	69	wnw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.78	756.5	30.24	768.2	64.6	18.1	58	e.			2		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.00	762.1	30.28	769.2	57.6	14.2	74	w.			1		3			0	0		Karl Stancel.
Trieste	30.11	764.8	30.21	767.3	67.3	19.6	42	ne.			4		0			0	0		Royal Academy.
Vienna	29.58	751.4	30.30	769.5	60.4	15.8	67	se.			4		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.18	766.6	30.28	769.1	50.6	10.3	89	s.	14	6.3			6			0	0	d. clouds	W. Boswell.
Armagh, Observatory	30.01	762.2	30.25	768.3	56.9	13.8	87	s.	6	2.7			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.25	768.3	50.2	10.1	93	se.	19	8.5			7					d. clouds	John Hartnup.
Bolton, Sharples	29.72	754.9	30.26	768.6	53.3	11.8	88	s.	6	2.7			8					misty	Thomas Mackereth.
Bradford, Yorkshire	29.88	758 9	30.28	769.1	52.1	11.2	90	se.			1		10			0	0	overcast	McLandsborough & Preston.
Cardington	30.15	765.8	30.26	768.6	52.2	11.2	98	e.			0.2		10					foggy	John McLaren.
Chatham, School M. E.	30.05	763.3	30.23	767.8	53.1	11.7	98	se.			1		10					foggy	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	29.98	761.5	30.21	767.3	56.0	13.3	88	ene.			2		10					overcast	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	67.5	19.7	58	ne.			2		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.76	755.9	29.99	761.7	83	28.3	83	s.			3		3					raining	J. W. Smith.
Galway, Queen's College	30.11	764.8	30.14	765.5	55	12.8	87	sw.			1		8			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	69.2	20.7	97	e.			2		4					d. clouds	Sgt. F. Norris, A. H.C.
Glasgow, Observatory	30.06	763.5	30.26	768.6	52.0	11.1	84	ne.			2							foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.07	763.8	30.24	768.1	53.2	11.8	99	e			1		10					foggy	The Staff.
Guernsey	29.90	759.4	30.20	767.1	53.5	11.9	98	e.			1		10					foggy	A. Collenette, F. M. S
Kew, Observatory	30.21	767 3	30.25	768.3	52 9	11.6	98	e.	2	0.9								foggy	The Staff.
Leicester, Museum	29.99	761.7	30.25	768.3	54.0	12.2	95	se.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	68.0	20.0	68	ne.			3		6			0.08	2.0	d. clouds	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.06	763.5	80.0	26.7	87	e.			1		5			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.75	755.6	30.27	768.8	51.4	10.8	100	nne.			1		10					foggy	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.02	762.5	30.25	768.3	53.0	11.7	98	ne.			2		10					misty	The Staff.
Plymouth	30.11	764.8	30.19	766.8	58.0	14.4	85	ene.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.13	765.3	30.23	767.8	48.8	9.3	89						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.09	764.3	30.16	766.1	65.0	18.3	69	ne.			2		9					d. clouds	W. H. Lyne.
Sheffield	29.90	759.4	30.18	766.6	52.3	11.3	96	e.			1		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.23	767.8	30.26	768.6	51.9	11.1	86	n.			1		3			0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.29	769.4	52.6	11.4	90	nne.	1	0.4			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					53.5	11.9	98				0		10					foggy	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.17	766.3	30.24	768.1	60	15.6	82	e.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.16	766.1	30.18	766.6	60.5	15.8	76	se.	13	5.8			7					d. clouds	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.70	754.4	30.10	764.5	68.0	20.0	59	ne.	6.2	2.8		0	2 n		ne.	0	0	clear	Rev. Ph. Borrelle.
Canadian.																			
Bathurst, N. B.	30.21	767.3	30.24	768.1	34.0	1.1		s.	2	0.9		10 cs	0			0	0	overcast	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.20	767.1	30.24	768.1	37	2.8	65	n.	4	1.8			10 s		se.	0.017	0.4	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.20	767.1	30.27	768.8	29	— 1.7	88	sw.	2	0.9		8 ck	2 k	sw.	sw.	0	0	fair	G. A. Blair.
Cornwall, Ontario	29.41	747.0	29.60	751.8	45.9	7.7	95	e.			1		10 s			0.208	5.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B.																			H. A. Johnson.
Edmonton, N. W. T*	27.02	686.3			27	— 2.8	53	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	30.08	764 0	30.10	764.5	35	1.7	92	se.	8	3.6		5 cs	5 ks	ne.	ne.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.53	724.6	29.36	745.7	39	3.9	100	s.	15	6.7			10 s		s	0.30	7.6	cloudy	James Stewart.
Fredericton, N. B.	30.18	766.6	30.24	768.1	31.8	— 0.1	87	e.	3	1.3			10 s			0	0	overcast	Prof. Thos. Harrison
Grand Manan, N. B.	30.17	766.3	30.22	767.6	40	4.4	65	se.	11	4.9			10 ks		ne.	0	0	cloudy	J. Chipman Seeley
Granton, Ontario	28.41	721 6	29.48	748.8	56.0	13.3	100	s.	2	0.9			10 n			0.15	3.8	raining	Jas. Grant.
Halifax, N. S*	30.12	765.0	30.25	768.3	35	1.7	79	n.	7	3.1		2 ck	0			0	0	fair	A. Allison.
Hamilton, Ontario	29.08	738.6	29.46	748.3	48.7	9.3	87	ne.			1	10 cs	0	e.		0.05	1.3	overcast	Geo. Dickson, B. A.
Kingston, Ontario*	29.27	743.4	29.60	751.8	54	12.2	86	s.	20	8.9			10 n		s.	inap.	inap.	cloudy	A. P. Knight, M. A.
Little Glace Bay, N. S.	30.19	766 8	30.23	767.8	38.5	3.6	86	ne.			3		10 n			0	0		C. H. Rigby.
London, Ontario	28.62	726.9	29.50	749.3	56.0	13.3	98	calm			0		10 n			0.14	3.6	overcast	E. B. Reed.
Medicine Hat, N. W. T.	27.04	686.8	29.34	745 2	32	0.0	88	w.	3	1.3		0	0			0	0	clear	John Ewart.
Minnedosa, N. W. T	27.37	695.2	29.33	745.0	29	— 1.7	92	w.	3	1.3			10 s		w.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.49	749.0	29.70	754.4	47	8.3	93	s.	10	7.2			10 s			0.30	7.6	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.36	745.7	29.58	751.3	43.1	6.2	94	e.					10 s			0.240	6.1	raining	A. McGill, M. A.
Parry Sound, Ontario*	28 79	731.3	29.47	748.5	50	10.0	100	calm	0	0			fg			0.20	5.1	dense fog	Rev. R. Mosley.
Peterboro, Ontario	28.79	731.3	29.54	750.3	38.7	3.7	84	sw			1		10 n			0.20	5.1	raining	Wm. O'Connor, M.A.
Port Arthur	28.80	731.5	29.50	749.3	40	4.4	92	nw.	2	0 9			fg.			0.19	4.8	dense fog	W. P. Cooke.
Port Dover, Ontario	28.80	731.5	29.48	748.8	53	11.7	100	sw.	9	4.0			10 n			0.05	1.3	light rain	G. Morgan.
Port Stanley, Ontario	28.87	733.3	29.50	749.3	55	12.8	96	calm	0	0			fg.			0.27	6.9	light rain	M. Payne.
Qu Appelle, N. W. T	27 07	687.6	29.36	745.7	29	— 1.7	100	sw.	14	6.3		2 cs	5 s	sw.	sw.	0	0	cloudy	Leslie Gordon.
Quebec, Quebec*	29.56	750.8	29.92	760.0	38	3.3	100	ne.	12	5.4			10 n		e.	0.15	3.8	heavy rain	Capt. Asne, R. N.
Rockliffe, Ontario*	29.05	737.9	29.51	749.5	43	6.1	96	se.	20	8.9			10 s		se.	0.29	7.4	light rain	W. H. McIntyre.
St. Andrews, N. B	30.14	765.5	30.19	766.8	40	4.4	82	se.	6	2.7			10 n			0	0	cloudy	
St. John, N. B	30.10	764.5	30.25	768.3	33.8	1.0	75	e.	1	0.4		0	7 ks			0.839	21.3	d. clouds	G. Hutchinson.
Saint John's, N. F.	29.75	755.6	30.01	762.2	33	0.6	100	ne.			1	0	2 ks			0	0	clear	J. Higgins.
St. Pierre, N. F.			30.08	764.0	33.8	1.0		n.			7								The Commandant.
Saugeen, Ontario*	28.76	730.5	29.46	748.3	50	10.0	100	sw.	1	0.4			fg.			0.10	2.5	dense fog	
Stratford, Ontario	28.10	713.7	29.34	745 2	54.9	12.7	97	sw.	7.5	3.4			10 s			0.025	0.6	drizzling	O. J. Macgregor, M. A

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CANADIAN.—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	30.17	766.3	30.23	767.8	35	1.7	75	s.	1	0.4			10 s			0	0	cloudy	[illegible], C. E.
Toronto, Ontario*	29.16	740.7	29.53	750.0	54	12.2	96	s.	7	3.1			10 s			0.03	0.8	light rain	Magnetic Observatory.
Woodstock, Ontario	28.48	723.4	29.51	749.5	57.0	13.9	96	s.	17	7.6			10 s			0.05	1.3	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	30.15	765 8	30.22	767.6	35	1.7	89	e.	9	4.0			10 k		w.	0	0	cloudy	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.04	763.0	30.07	763.8	62.0	16.7	91	sw.	12.9	5.8		0	9 n			0.200	5.1	raining	I. Garfelt.
Cape Town	30.02	762.5			84.8	29.3	35	ese.				0	0			0	0		
Springbok Fontein	27.86	707.6			81	27.2	36									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.93	760.2	30.01	762.2	55.8	13.2	90	e.			1	10						cloudy	Samuel Redolez.
Iquique	30.02	762.4	30.04	763.1	62.6	17.0	78	sw.			3							cloudy	Rafael Moreno.
Niebla	29.57	751.0	29.57	753.7	48.2	9.0	89	e.			1	1	2 n	s.	w.	0.803	20.4		Federico Köhling.
Punta Caldera	29.91	759.8	30.00	762.0	58.6	14.8	76	ne.			1	8 c	c	ne.	ne.			cloudy	Manuel Tobar.
Punta Corona	29.80	756.8	29.98	761.6				n.			5	10				0	0	cloudy	Francisco Alvarado.
Valparaiso	29.95	760 8	30.04	763.0	59.0	15.0	83	n.			1	10	0					cloudy	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.56	649.3																	A. Gueluy.
Zi-Ka-Wei, near Shanghai	30.12	765.0	30.15	765.7	64.8	18.2	93	ne.	2.7	1.2			10			0	0	covered	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.44	773.2	30.49	774.4	47.1	8.4	77	ese.	13	6			10						Oversergent Fischer.
Fanoe	30.42	772.6	30.44	773.1	46.4	8.0	82	ese.			4		10						Overloerer Lauridsen.
Godthaab, Greenland	29.48	748.7	29.52	749 8	20.8	—6.2	74	ne.			4		3						S. Kleinschmidt.
Jacobshavn, Greenland	29.72	755.0	29.77	756.2	12.2	—11.0		e.			2		3						
Stykkisholm, Iceland	28.98	736 2	29.03	737.3	42.1	5.6	86	s.			9		10					raining	A. O. Thorlacius.
Thorshavn	29.99	761.7	30.01	762.3	48.7	9.3	74	sw.	25	11			4						Overloerer Bergh.
Vestervig	30.33	770 4	30.42	772.7	42.4	5.8	96	e.			2		10					hazy	Loerer Oesterbot.
EGYPTIAN.																			
Cairo	29.91	759.7			77.4	25.2		ne.	0.7	0.3			2 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.53	750.0	30.17	766.2	65.1	18.4	78	s.			1	ck		se.		0	0		M. Labroue, Director.
Alençon, Normal School	29.57	751.0	30.12	765.0	52.2	11.2	90	ne.			1				sw.	0	0		M. Nicot, Director.
Avignon, Normal School	30.13	765.2	30.21	767.2	65.8	18.8	61	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.65	753.2	30.21	767.4	59.9	15.5	66	sse.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.98	761.5	30.25	768.3	52.5	11.4	85	se.			1		10			0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.28	743.7	30.20	767.1	48.2	9	89	ene.			1		1		sw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.84	758.0	30.10	764.6	64.4	18.0	77	e.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.57	751.1	30.11	764 9	62.6	17	79	s.			2		1 s		s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.93	760.3	30.18	766.5	67.6	19.8	81	calm			0		0			0	0		M. de Kermarée, Dir.
Caen, Normal School	30.08	763.9	30.15	765.8	52.3	11.3	95	s.			1					0	0	foggy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.91	759.7	30.19	766.8	54.5	12.5	86	s.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.74	755 4	30.26	768.7	53.2	11.8	78	s.			1		k			0	0		M. Noel, Director.
Clermont-Ferrand Obs'y	28.80	731.5	30.13	765.2	66.2	19.0	51	sw.			1		1 k			0	0		M. Allnard, Director.
Cluny, Normal School	29.37	746.1	30.24	768 0	56.3	13.5	88	e.			1					0.098	2.5		M. de Villemontée, Dir.
Commercy, Normal School	29.41	747.0	30.28	769.1	48.6	9.2	88	s.			1		10			0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.66	702.5	30.17	766.2	60.4	15.8	52	se.			1		0			0	0		M. Jarach, Director.
Grésque, du Rhone	29.07	738 3	30.17	766.3	68.2	20.1	57	s.			1		3		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.47	748 4	30.24	768.0	54.7	12.6	88	e.			1		k		n.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.58	725.9	30.15	765.7	60.8	16	75	se.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.86	758.4	30.13	765.4	57.2	14	95	se.			2		10		se.	0	0	covered	M. Ollitrault, Director
Lescar, Normal School	29.50	749.2	30.06	763.4	66.2	19.0	70	e.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.05	763.3	30.15	765.9	64.0	17.8	78	ese.			1		2	se.		0	0	¼ covered	Lt. T. Carre, Director
Lyon, St. Genis-Laval	29.15	740.5	30.22	767.5	57.7	14.3	78	ne.			1		0			0	0	misty	M. André, Director.
Mans, Normal School	29.88	759.0	30.20	767.0	51.8	11	91	ese.			1		10			0	0	covered	M. Richard, Director
Marseille, Observatory	29.91	759.7	30.18	766.5	70.5	21.4	57	sse.			1		3		se.	0	0		M. Stephan, Director.
Montlouis	24.93	633.3	29.78	756.3	46.4	8.0	86	ne.	3.8	1.7			9		e.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.04	762.9	30.14	765.6	66.6	19.2	88	e.			4		2	wnw.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.49	749.1	30.30	769.7	44.6	7.0	91	nnw.			1		10			0.012	0.3	foggy	M. Hasse, Director.
Nantes, Observatory	30.01	762 3	30.17	766.4	59.7	15.4	80	ene.			1		1 kn			0	0		M. Larocque, Director.
Perpignan, Observatory	30.05	763.2	30.16	766.1	61.5	16.4	89	e.	3.8	1.7			10		s.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.32	541.4			34.2	1.2		sw.			1		8		sw.	0	0	very cloudy	M. Vaussenat, Director.
Privas, Normal School	29.14	740.1	30.20	767.0	63.3	17.4	72	n.			1		1	e.	n.	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.31	642.8			47.8	8.8	87	sse.			1		2 k			0	0		M. Allnard.
Rochefort, Naval Obs'y	30.08	764.0	30.11	764.8	64.0	17.8	76	calm			0		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.86	758.4	30.07	763.8	62.1	16.7	90	se.			1		2			0	0	slightly cl'dy	M. Brodier, Director.
Rodez, Normal School	27.97	710 4	30.10	764.4	58.1	14.5	73	nw.			2		1		nw.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.16	766.1	30.21	767.3	56.8	13.8	84	se.			1		2	e.		0	0	slightly cl'dy	M. Mouillot, Dir.
St Lô	30.04	762.9	30.18	766 6	53.2	11.8	94	n.			1		1		w.	0	0	clear	M. Delaplanche, Dir.
Saint Maur, Observatory	30.07	763.8	30.24	768.0	52.1	11.1	91	ene.			1		10		e.	0.016	0.4		M. Renou, Director.
Toulouse, Observatory	29.39	746.6	30.12	765.0	66.2	19.0	77	sse.			6		5	se.		0	0	cloudy	M. Baillaud, Director.
Tours	29.99	761.7	30.17	766.2	61.2	16.2	74	ene.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.72	755.0	30.22	767.5	49.6	9.8	95	se.			1					0	0		Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	29.95	760.8	30.10	764.6	65.5	18.6	78	s.	2.0	0 9			9 k		e.	0	0		M. Cartier, Director.
GERMAN.																			
Ansbach	28.83	732.3	30.32	770.1	46.4	8.0	93	calm			0		10			0	0		Prof. Juedt.
Bamberg	29.43	747 6	30.28	769.2	46.8	8.2	88	calm			0		10 ks			0	0		Prof. Dr. Hoh.
Berlin	30.24	768.1	30.39	771.8	50.7	10.4	88	e.			1		10			0	0		Dr. Lensch.
Breslau	29.85	758.2	30.39	771.9	58.5	14.7	70	e.			4		2			0	0		Royal University Obs'y.
Carlsruhe	29.83	757.7	30.30	769.6	51.6	10.9	78	ne.			1		10	ne.		0	0		Albert Senz.
Cassel	29.58	751.4	30.30	769.5	50.4	10.2	79	n.			1		10			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.92	759.9	30.29	769 4	51.3	10.7	71	calm			0		10			0	0		Physical Society.
Friedrichshafen	28.84	732.6	30.28	769.1	51.8	11.0	82	sw.			2		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	30.30	769.7	30.39	772.0	50.7	10.4	85	ene.			3		10			0	0		E. Prester.
Kiel	30.40	772.2	30.42	772 6	50.2	10.1	82	e.			1		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.89	759.3	30.32	770.2	52.5	11.4	88	ne.			2		10			0.008	0.2		H. Leppig, Asst.
Magdeburg	30.15	765.7	30.34	770.7	50.9	10.5	90	ene.			1		10			0	0		Weather Observatory.
Memel	30.54	775.6	30.58	776.8	46.4	8.0	83	ene.			1		0					clear	Issermann.
Munich	28.43	722 1	30.31	769.9	44.1	6.7	88	calm			0		10			0.008	0.2		Central Station.
Neufahrwasser	30.53	775.5	30.55	775.9	44.4	6.9	86	se.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.74	755 4	30.27	768.9	51.8	11.0	65	nnw.			1		10			0	0		Dicknether.
Stuttgart	29.32	744.6	30.22	767.7	50.0	10.0	76	e.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.40	772.2	30.43	772.9	48.4	9.1	84	e.			2		3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.69	754.1	30.07	763.7	67.8	19.9		ne.			1.0		5 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.90	759.3	29.95	760.6	83.7	28.7	61	wsw.	20.0	8.9			0			0	0	blue sky	
Deesa	29.44	747.8	29.91	759.7	87.8	31.0	11	nne.	10.0	4.5			0			0	0	blue sky	
Bombay	29.84	758.0	29.88	758.9	81.9	27.7	69	nnw.	20.0	8.9			0			0	0	blue sky	
Poona, Yarrowda	28.04	712.3	29.90	759.5	78.2	25.7	39	ne.	12.0	5.4			0			0	0	blue sky	
Trichinopoly	29.56	750.8	29.84	757.9	80.9	27.2	72	e.	0.3	0.1			10			0	0	overcast	
Bellary	28.26	717.8	29.72	754.9	80.2	26.8	56	nne.	6.0	2.7			9			0	0	gloomy	
Belgaum	27.33	694.2	29.87	758.7	76.8	24.9	53	n.	3.0	1.3			3	w.	e.	0	0	d. clouds	
Lahore	29.19	741.4	29.94	760.5	76.9	24.9	40	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather	Observers.
INDIAN.—Continued.																			
Roorkee	29.02	737.0	29.92	760.1	74.8	23.8	37	calm	0	0			0			0	0	blue sky	
Agra	29.41	746.9	29.97	761.3	80.5	26.9	29	nw.	2.0	0.9			0			0	0	blue sky	
Nagpur	28.85	732.8	29.90	759.4	76.9	24.9	47	calm	1.0	0.4			0			0	0	blue sky	
Jubbulpore	28.57	725.6	29.94	760.5	75.4	24.1	42	calm	0.9	0.4			0			0	0	blue sky	
Lucknow	29.54	750.2	29.91	759.8	81.2	27.3	31	calm	0	0			0			0	0	blue sky	
Allahabad	29.60	751.8	29.92	759.8	73.8	23.2	62	calm	0	0			0			0	0	blue sky	
Patna	29.72	755.0	29.91	759.7	76.7	24.8	58	calm	1.3	0.6			4	ne.	ne.	0	0	d. clouds	
Hazaribagh	27.89	708.4	29.92	759.8	75.4	24.1	43	wnw.	2.8	1.2			0			0	0	blue sky	
Cuttack	29.82	757.5	29.91	759.6	79.5	26.4	64	nne	2.0	0.9			2			0	0	blue sky	
Calcutta, Alipore	29.88	759.0	29.90	759.5	77.3	25.2	67	nnw.	1.0	0.4			0			0	0	blue sky	
Dhubri	29.79	756.8	29.91	759.8	75.6	24.2	75	calm	0.5	0.2			0			0	0	blue sky	
Chittagong	29.81	757.3	29.90	759.6	77.7	25.4	79	nw.	1.5	0.7			0			0	0	blue sky	
Sibsagar	29.60	751.9	29.94	760.6	75.2	24.0	79	se.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.51	724.0	29.95	760.8	80.2	26.8	19	nne.	4.0	1.8			0			0	0	blue sky	
Zanzibar	29.92	760.0			81.5	27.5	76	nnw.	2.9	1.3			8		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.80	756.9	30.21	767.3	66.4	19.1	45	ne.	2.5	1.1			0			0	0		Prof. Giovanni Clodig.
Milan	29.74	755.4	30.26	768.5	59.7	15.4	63	nw.	3.8	1.7			0			0	0		Prof. Dott. Lorenzoni.
Padua	30.10	764.6	30.21	767.4	64.0	17.8	50	ne.	2.5	1.1			0			0	0		Prof. F. F. Denza.
Moncalieri	29.37	745.9	30.28	769.0	56.3	13.5	73	ne.	0.7	0.3			9	ne.		0	0		Prof. G. M. Garibaldi.
Genoa	29.99	761.8	30.19	766.7	59.9	15.5	61	n.	10.5	4.7			0			0	0		Prof. D. C. Bruno.
Mondovi	28.36	720.4	30.28	769.2	54.5	12.5	67	nne.			2		10			0	0		Prof. Luigi Guidi.
Pesaro	30.17	766.4	30.22	767.6	60.1	15.6	71	nw.	16.1	7.2			8	ene.		0	0		Prof. Costantino Pittet
Florence	29.89	759.3	30.15	765.8	65.3	18.5	48	ne.			6		3	ene.		0	0		Prof. P. Monte.
Leghorn	30.03	762.7	30.11	764.9	66.9	19.4	44	ne.	6.3	2.8			4	ne.		0	0		Prof. P. Tacchini.
Rome	29.03	760.3	30.11	764.7	68.4	20.2	45	w.	1.8	0.8			1			0	0		Prof. C. de Giorgi.
Lecce	29.84	758.0	30.10	764.4	65.1	18.4	79	nnw.	9.8	4.4			8	n.		0	0		Prof. D. Conti.
Cosenza	29.22	742.2	30.11	764.8	62.2	16.8	62	ssw.	2.5	1.1			9	w.		0.339	8.6		Prof. A. Pacinotti.
Cagliari	29.91	759.8	30.10	764.6	67.1	19.5	54	s.			2		1			0	0		Prof. G. Caccianore.
Palermo	29.84	758.0	30.09	764.3	67.8	19.9	55	ne.	1.8	0.8			1			0	0		Sig. Vincenzo Giuliano
Syracuse	30.00	761.9	30.04	763.0	67.5	19.7	66	nne.	13.6	6.1			9	ne.		0.354	9.0		
Sub-series.																			
Naples, S. R.	29.58	751.4	30.10	764.4	66.6	19.2	61	e.	4.3	1.9			1			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	30.23	767.7	30.26	768.6	47.0	8.3	99	calm			0	0	0			0	0	clear	H. Hattori.
Awomori	30.24	768.1	30.28	769.1	44.7	7.1	87	s.	2.1	0.9		0	0			0	0	clear	K. Ogawa.
Hamamatsu	30.04	763.0	30.14	765.5	60.8	16.0	97	calm			0	1 ck	2 s			0.779	19.8	fair	Sekigawa & Yamazaki.
Kagoshima	30.12	765.1	30.13	765.4	68.0	20.0	91	calm			0		10 n			0.035	0.9	light rain	G. Miyanohaza.
Kanazawa	30.10	764.5	30.20	767.1	56.6	13.7	98	e	0.7	0.3		0	9ks;s			0.017	0.4	overcast	S. Endo.
Kioto	30.00	762.1	30.18	766.5	54.6	12.6	96	nnw.	0.9	0.4		0	1 s			0	0	clear	M. Tojima.
Kochi	30.13	765.3	30.15	765.8	65.5	18.6	93	w.	2.4	1.1		0	7 ck			0.34	8.6	cloudy	K. Kusunose.
Miasaka	30.13	765.3	30.10	766.0	66.3	19.1	93	nne.			1		10 n		w.	0.295	7.5	raining	K. Masusaki
Miyako	30.16	766.0	30.27	768.8	48.8	9.3	92	wsw.	6.2	2.8		1 ck	0			0	0	clear	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.92	759.0	30.12	765.0	64.7	18.2	84	e.	0.6	0.3		0	2 s			0.020	0.5	clear	S. Takehayashi.
Niigata	30.19	766.8	30.23	767.8	58.4	14.7	80	ne.	0.8	0.4		0	3 ks		n.	0	0	fair	Satoo & Tomikawa.
Nobiru	30.21	767.4	30.23	767.8	54.3	12.4	92	ne.	6.6	2.9		0	3 s			0	0	fair	Yoshino & Midzushina.
Numazu	30.12	765.0	30.15	765.9	59.9	15.5	89	se			2	0	9 ks			0.567	14.4	cloudy	R. Kaneda.
Osaka	30.15	765.8	30.17	766.2	58.6	14.8	88	n.	3.6	1.6		0	0			0	0	clear	H. Omura.
Sakai	30.19	766.9	30.20	767.1	63.8	17.7	68	nne.			2		10 ks		ne.	0	0	cloudy	Yamawchi&Sakamoto.
Shimonoseki	30.03	762.8	30.18	766.5	63.0	17.2	80	calm			0	0	3 s			0	0	fair	S. Sakaro.
Tokei Obs'y, Yeddo	30.11	764.8	30.19	766.7	59.1	15.1	95	nnw.	6.8	3.0			10ks;s		nw.	0.081	2.1	cloudy	The Staff.
Wakayama	30.11	764.7	30.16	766.0	63.2	17.3	80	calm	0	0		5 ck	5 ck		ne.	0	0	cloudy	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	72.2	22.3	87	ne.	15.5	6.9			5ks;n		e.	0.24	6.1	cloudy	The Staff.
MEXICAN.																			
Leon	24.29	617.0	29.94	760.5	58.8	14.9	84	ssw.	0.9	0.4		7 c	3ck;s		se	0	0	overcast	Prof. M. Leal.
Mazatlan	29.63	752.7	29.89	759.2	76.0	24.4	86	nne.	0.9	0.4		2 c	0			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.28	769.1	30.28	769.1	56.3	13.5		e.			4					0	0		
Groningen	30.29	769.4	30.35	770.8	49.1	9.5		ese.			1					0	0		
Helder	30.32	770.0	30.32	770.0	52.2	11.2		ese.			2					0	0		
Hellevoetsluis	30.28	769.2	30.28	769.2	53.4	11.9	79	e.			1					0	0		
Utrecht	30.26	768.6	30.31	769.8	54.9	12.7	76	e.			2		2			0	0	lightly cld'y	H. van der Brink
Sub-series.																			
Batavia, Java	29.84	757.8			79.9	26.6	83	n.	0	0			7			0	0		Lt. J. J. Roptman, R D.N
NORWEGIAN.																			
Bergen	30.34	770.6	30.40	772.2	49.6	9.8	62	s.	36	7			10			0	0		
Brono	30.26	768.6	30.30	769.6	47.3	8.5	69	sse.			6		10			0.256	6.5	foggy	
Christiania	30.35	771.0	30.51	775.0	33.4	0.8	96	nne.	2	1			10			0	0	rain & snow	
Gjæsvær	30.10	764.5	30.12	765.1	34.2	1.2		n.			0		10						
Lodingen	30.24	768.2	30.29	769.4	39.9	4.4	77	wsw.			2		5			0.507	14.4		
PORTUGUESE.																			
Angra, Azores					63.1	17.3	63	ssw.	4.9	2.2			5			0	0		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo
Funchal, Madeira	29.96	761.0	30.05	763.2	70.7	21.5	64	se.	4.3	1.9			1			0.079	2.0		Capt. D. A. de Gunha.
Lisbon, Observatory	29.69	754.2	30.02	762.6	64.9	18.3	78	ene.	4.3	1.9			4			0	0		The Staff.
Ponta Delgada, Azores	30.07	763.8	30.14	765.6	67.0	19.8	57	sw.	3.1	1.4			4			0	0		
Saint Paul de Loando	29.72	754.8	29.92	759.9	77.5	25.3	88	w.	1.8	0.8			4			0	0		
San Salvador, Congo	28.11	713.9	29.94	760.5	77.2	25.1	66	wsw.			2		7			0	0		
Serra da Estrella	25.33	643.3	30.08	764.1	46.8	8.2	100	e.	9.4	4.2			10			0.575	14.6	foggy	
RUSSIAN.																			
Akmolinski	28.87	733.2	29.98	761.4	35.6	2.0	61	w.	11	5			10 n			0	0		Major K. Lasarew.
Archangel	30.05	763.2	30.07	763.7	34.2	1.2	82	wnw.	9	4			10			0	0		Capt. Sseliwerstow
Ashurada	30.37	771.5	30.28	769.1	68.4	20.2	65	n.	11	5		cs	3 k			0	0	light clouds	
Astrakhan	30.32	770.2	30.25	768.3	56.1	13.4	58	sw.	11	5		0	7 s			0	0	light clouds	Capt. Wisganow.
Baku	30.32	770.2	30.28	769.0	62.6	17.0	74	ssw.	9	4		0	5 ks			0	0		
Barnaul	29.50	749.4	30.02	762.5	38.1	3.4	56	sw.	22	10			10			0	0		Meteorological Obs'y
Bielosersk	29.68	753.8	30.17	766.2	34.3	1.3	68	nw.	13	6		0	7 ks			0.031	0.8		
Dorpat	30.21	767.4	30.47	773.8	45.3	7.4	74	wnw.	7	3			9 k			0	0		Observatory.
Ekaterinburg	28.41	721.7	29.39	746.6	32.4	0.2	92	sw.	9	4			10			0.256	6.5	snowing	Meteorological Obs'y.
Elissawetgrad	29.92	760.0	30.38	771.6	52.9	11.6	70	nnw.	9	4			10 ks			0	0		
Irkutsk	28.80	731.5	30.57	776.4	21.4	— 5.9	76	se.			1		0			0	0		
Kasalinsk					47.5	8.6	71	sw.	4	2		cs	6 n						
Kasan	29.39	746.5	29.67	753.5	38.7	3.7	77	wnw.	13	6		0	7			0	0		Observatory.
Kem	30.13	765.2	30.18	766.5	31.3	— 0.4	89	w.	9	4		0	1 ks			0	0	h'vy clouds	
Kertch	30.44	773.2	30.47	773.8	56.1	13.4	73	n.	4	2		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.73	755.2	30.38	771.7	50.9	10.5	61	nnw.	13	6		c	1 ks			0	0		Observatory.
Koslov	29.61	752.2	30.13	765.3	41.9	5.5	72	wnw.	13	6			10 s			0	0		
Liban	30.54	775.8	30.57	776.4	48.0	8.9	91	ssw.	2	1			0			0	0		E. Quasas.
Lugan	29.93	760.3	30.13	765.4	58.3	14.6	53	w.	22	10			6			c	0		Meteorological Obs'y.
Moscow	29.71	754.5	30.20	767.0	42.1	5.6	55	ne.	8.9	4.0		0	6 ks			0	0		Meteorological Obs'y
Nikolaiev	30.26	768.7	30.34	770.5	59.4	15.2	63	calm	0	0		0	0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaievsk-on-the-Amoor	30.23	767.8	30.32	770.0	31.6	— 0.2	79	calm	0	0			9 k						Iwanow.
Pekin, China	30.05	763.2	30.19	766.8	47.3	8.5	89	calm	0	0			10 n			0.110	2.8		Physical Observatory.
Petro-Alexandrovsk	30.02	762.5	30.38	771.6	56.5	13.6	40	calm	0	0		0	0			0	0		
Petrozavodsk	30.00	762.0	30.21	767.2	34.5	1.4	85	nw.	11	5		0	8 ks			0.031	0.8		Dr. Bergmann.
Pinsk	30.00	761.9	30.50	774.8	50.2	10.1	68	ne.	9	4		0	0			0	0		
Poti	30.16	766.0	30.19	766.8	70.2	21.2	81	calm	0	0		0	0			0	0		
St. Petersburg	30.30	769.6	30.32	770.2	42.4	5.8	70	nw.	9	4		0	0			0	0		Central Physical Obs'y.
Samarkand	27.85	707.5	30.33	770.4	57.7	14.3	38	calm	0	0		0	0			0	0		
Semipalatinsk	29.45	748.0	30.13	765.2	38.7	3.7	51	s.	18	8			8			0	0		Major Lasarew
Sevastopol	30.04	762.9	30.25	768.3	66.0	18.9	56	n.	7	3		0	0			0	0		
Staroi Bykhov	29.87	758.7	30.44	773.2	47.1	8.4	55	n.	9	4		2 s	0			0	0	light clouds	
Tashkend Laboratory	28.65	727.8	30.33	770.4	57.7	14.3	47	calm	0	0		0	3 k			0	0	light clouds	Torch, A. M
Tiflis	28.83	732.2	30.24	768.1	61.3	16.3	67	se.	9	4		0	1 ks			0.122	3.1		Physical Observatory.
Vernoe	27.70	703.5	30.23	767.9	49.1	9.5	45	calm	0	0		0	0			0	0		
Viatka	29.02	737.0	29.67	753.5	30.9	— 0.6	96	wnw.	9	4			10			0.091	2.3		
Warsaw	30.06	763.6	30.50	774.6	51.1	10.6	72	ne.	7	3			10 n			0	0	heavy cl'ds.	Astronomical Obs'y.
Yeniseisk	29.71	754.7	30.01	762.3	29.3	— 1.5	80	ssw.	4	2			10			0.004	0.1	snowing	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.01	762.2	30.11	764.7	66.2	19.0	83	e.	8.5	3.8			9			0.071	1.8	misty	Antonio Molins.
Bilbao, Met. Obs'y	30.05	763.3	30.11	764.8	73.4	23.0	56	s.	3.1	1.4		4	3	s.		0.016	0.4	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.15	689.6	30.11	764.7	56.7	13.7	77	n.	4.9	2.2			9			0	0	almost covd.	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.08	764.0	62.1	16.7	76	s.	2.7	1.2			10			0.524	13.3	covered	The Staff.
Murcia, Met. Obs'y	29.93	760.2	30.08	763.9	69.8	21.0	72	sw.	2.5	1.1		3	6	se.		0	0	almost covd.	Olayo Diaz, Director.
Oviedo	29.26	743.3	30.02	762.6	58.1	14.5	86	s.	4.7	2.1		4 n	10 n	w.	n.	0	0	cloudy	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.12	739.7	30.00	761.9	68.2	20.1	69	ne.	4.9	2.2			7			0.094	2.4	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.91	759.7	29.97	761.3	77.0	25.0	87	e.	2.0	0.9		4 ck	3 sk	se.	sse.	0.06	1.4	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.84	758.0	29.90	759.4	78.8	26.0	87	se.	5.5	2.5		3 c	2 ks			0.315	8.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.8	30.05	763.3	71.4	21.9	71	s	7.0	3.1			10		s.	0.05?	1.3?		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.88	758.9	29.97	761.2	80.6	27.0	88	calm	0	0		3 k	5 kn	se.	se.	0	0	cloudy	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.34	770.7	30.38	771.7	33.4	0.8	89	nw.			2		0			0	0		
Umea	30.39	771.8	30.44	773.1	41.4	5.2	75	calm			0		1			0	0		
Hernosand	30.39	771.9	30.44	773.2	50.7	10.4	63	calm			0		0			0	0		
Stockholm	30.31	769.9	30.49	774.4	46.4	8.0	67	ssw			2		0			0	0		
Wisby	30.43	773.0	30.49	774.5	46.8	8.2	89	ssw.			2		0			0	0		
Sub-series.																			
Upsala	30.41	772.4	30.50	774.6	44.2	6.8	79	sw.	5.6	2.5			1	nw.		0.016	0.4		H.H. Hildebrandsson
Swiss.																			
Geneva	28.84	732.5	30.28	769.2	48.0	8.9	85	n.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.22	767.5	63.5	17.5	74	ne.	19	8.5			10		ne.	0	0		The Observatory.
Valona			30.19?	766.7?	72.0	22.2		w.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.5	73.4	23.0	80	ne.			2		10 n		ssw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.95	684.5			56	13.3	74	calm			0	3 c	5 n	s.	e.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.78	756.4	29.86	758.4	54	12.2	80	s.	12	5.4			10 s		s.	0.06	1.5	cloudy	J. O. Barnes.
Alpena, Michigan	28.81	731.8	29.48	748.8	47	8.3	100	w.	1	0.4			fg.			0.39	9.9	dense fog	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.17	639.3	30.07	763.8	24.5	— 4.2	68	e.	3	1.3		0	0			0.03	0.8	clear	J. B. Turton.
Assinnaboine, Ft., Montana	26.78	680.2	29.70	754.4	34	1.1	65	sw.	20	8.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.73	729.7	29.92	760.0	65.0	18.3	90	sw.	10	4.5		2 c	sk.	w.		0	0	clear	Edward A. Beale.
Atlantic City, New Jersey	29.91	759.7	29.92	760.0	59	15.0	94	s.	11	4.9			10 n			0.14	3.6	light rain	Jas. M. Watson.
Augusta, Georgia	29.80	756.9	29.99	761.7	67	19.4	93	se.	2	0.9			10s; fg		se.	0	0	cloudy	Louis Duane.
Baltimore, Maryland	29.84	757.9	29.89	759.2	60.2	15.7	92	se.	2	0.9			10n; fg		s	0.09	2.3	light rain	Geo. W. Felger.
Barnegat City, New Jersey	29.91	759.7	29.93	760.2	59.0	15.0	93	s.	31	13.9			10 n		s.	0.03	0.8	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.02	711.7	29.64	752.8	30.0	2.2	72	w.	2	0.9		hz.	4 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	26.95	684.5	29.86	758.4	39	3.9	65	sw.	16	7.2		2 cs	7 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota	27.65	702.3	29.53	750.0	41	5.0	70	w.	12	5.4			10 s			0	0	cloudy	B. O. Lenoir.
Block Island, Rhode Island	29.99	761.7	30.02	762.5	54.0	12.2	86	se.	18	8.0			10 s		se.	0	0	cloudy	J. T. Elker
Boise City, Idaho	27.29	693.2	30.15	765.8	40	4.4	92	nw.	1	0.4			10 s			0.03	0.8	cloudy	B. E. Light.
Boston, Massachusetts	29.88	758.9	30.04	763.0	46.0	7.8	100	se.	12	5.4			10 n		se.	0.04	1.0	light rain	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.90	759.4	75.8	24.3	90	calm	0	0		10 ck	0			0	0	cloudy	John McGlone.
Buffalo, New York	28.84	732.5	29.60	751.8	58	14.4	88	se.	12	5.4			10 n		w.	0.02	0.5	light rain	Wm. Finn.
Buford, Fort, Dakota	27.44	697.0	29.54	750.3	37.4	3.0	82	w.	15	6.7		0	0			0	0	clear	A. Schneider.
Cairo, Illinois	29.22	742.2	29.62	752.3	64.1	17.8	93	sw	10	4.5		2 ck	5 s	sw.	sw.	0.20	5.1	fair	W. H. Ray.
Canby, Fort, Washington Ter	29.89	759.2	30.09	764.3	51.0	10.6	89	w.	11	4.9			10 s		w.	0.14	3.6	cloudy	O. D. Stewart.
Cape Henry, Virginia	29.92	760.0	29.94	760.5	64.0	17.8	90	s.	10	4.5		3 ck	4 ks	s.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	59.0	15.0	93	s.	23	10.3			10 s			0	0	cloudy	Wm. Bolton.
Cape Mendocino, California	29.55	750.6	30.24	768.1	53	11.7	93	calm	0	0			fg.			0	0	light fog	J. J. McLean.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	78.0	25.6	88	se.	9	4.0		0	0			0	0	clear	G. W. Davis.
Charleston, S. Carolina	29.92	760.0	29.98	761.5	69.0	20.6	90	sw.	5	2.2		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.94	760.5	64.0	17.8	96	s.	9	4.0			10 s		s.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	28.93	734.8	29.76	755.9	69.0	20.6	87	s.	15	6.7			10 ks		sw.	0.03	0.8	threatening	B. L. Goulding.
Cheyenne, Wyoming	23.90	607.0	29.92	760.0	33.2	0.7	65	nw.	16	7.2		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	28.73	729.7	29.44	747.8	53.5	11.9	96	e.	3	1.3			10 s			0.03	0.8	cloudy	Wm. Norrington.
Chincoteague, Virginia	29.91	759.7	29.93	760.2	62	16.7	93	se.	8	3.6			10 ks		nw.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	28.88	733.5	29.54	750.3	63.0	17.2	92	sw.	5	2.2			10 s		sw.	3.06	77.7	cloudy	L. Dunne.
Cleveland, Ohio	28.73	729.7	29.47	748.5	58.7	14.8	91	s.	6	2.7			10 n		s.	1.00	25.4	light rain	J. B. Newlin.
Columbus, Ohio	28.65	727.7	29.51	749.5	60	15.6	100	se.	8	3.6			10 s		sw.	1.66	42.2	threatening	D. Cuthbertson.
Concho, Fort, Texas	28.16	715.3	30.10	764.5	46.7	8.2	50	nw.				0	0			0	0	clear	C. E. King.
Custer, Fort, M. T.	26.59	675.4	29.83	757.7	41	5.0	59	nw.	16	7.2			10 s			0	0	cloudy	T. Gibson.
Davenport, Iowa	28.78	731.0	29.44	747.8	50.2	10.1	93	ne.	11	4.9			10s; fg			0.36	9.1	cloudy	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	30.14	765.5	47.0	8.3	42	nw.	12	5.4		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	30.07	763.8	46.9	8.3	71	sw.	11	4.9			10 s			0.03	0.8	cloudy	D. Moore.
Deadwood, Dakota	25.14	638.5	29.82	757.4	38	3.3	92	se.	8	3.6			10 k		w.	0.02	0.5	cloudy	F. Des Willson.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	60	15.6	90	s.	18	8.0			10 s		s.	0	0	cloudy	F. W. Mixer.
Denver, Colorado	24.65	626.1	29.91	759.7	43.5	6.4	34	nw.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.66	728.0	29.58	751.3	49	9.4	93	n.	4	1.8			10 s		n.	0.04	1.0	cloudy	F. W. Conrad.
Detroit, Michigan	28.73	729.7	29.44	747.8	60.0	15.6	93	e.	4	1.8			10 n			0.44	11.2	light rain	E. R. Brace.
Dodge City, Kansas	27.30	693.4	29.93	760.2	37	2.8	64	w.	9	4.0		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	28.76	730.5	29.48	748.8	49.7	9.8	95	n.	2	0.9			10 s			0.26	6.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.77	730.7	29.53	750.0	47	8.3	86	s.	3	1.3			10 s			0.03	0.8	cloudy	N. B. Conger.
Eastport, Maine	30.14	765.5	30.21	767.3	41.0	5.0	73	se.	11	4.9			10 s		se.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.19	690.6	29.98	761.5	40	4.4	73	nw	8	3.6		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.48	672.6	30.22	767.6	34.7	1.5	89	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.83	732.3	29.56	750.8	59	15.0	93	n.	4	1.8			10 n			0.42	10.7	light rain	C. A. Shaw.
Escanaba, Michigan	28.82	732.0	29.49	749.0	44.5	6.9	93	n.	2	0.9		0	9 s			0.46	11.7	cloudy	George Heathcote.
Galveston, Texas	29.85	758.2	29.89	759.2	77.1	25.1	90	w.	8	3.6		3 cs	5 ks		nw.	0.05	1.3	cloudy	E. O'C. Macinerney
Grand Haven, Michigan	28.74	730.0	29.41	747.0	50.0	10.0	96	ne.	4	1.8			10 s			0.11	2.8	cloudy	Wm. H. Fallon.

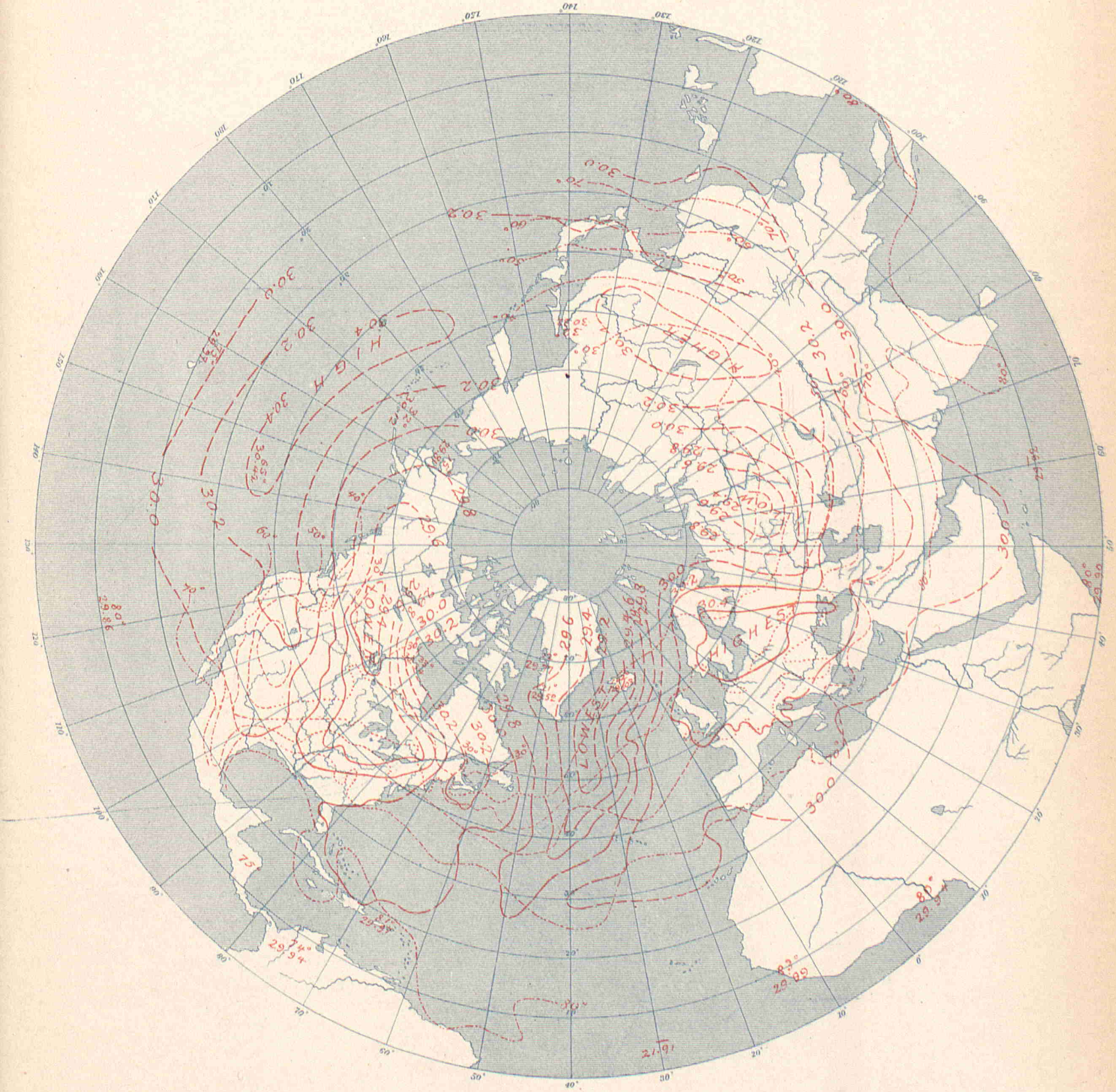
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Velocity.		Force.	Clouds. Amount and kind. Upper.	Lower.	Direction. Upper.	Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
United States.—Cont'd.																			
Grant, Fort Arizona	25.34	643.6	30.04	763.0	36.8	2.7	71	e.	6	2.7		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.01	762.2	30.02	762.5	67.7	19.8	100	se.	7	3.1			9 s		se.	0.26	6.6	cloudy	R. M. Crawford.
Helena, Montana	25.57	649.5	29.87	758.7	41	5.0	82	sw.	12	5.4			10 n			blank	blank	light rain	J. H. Jones.
Huron, Dakota	28.19	716.0	29.62	752.3	34.2	1.2	84	w.	2	0.9		5 k	0	w.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	28.65	727.7	29.45	748.0	60.6	15.9	92	s.	5	2.2			10 s		s.	1.90	48.3	cloudy	C. F. R. Wappenhans.
Indianola, Texas	29.91	759.7	29.94	760.5	74.0	23.3	85	nw.	31	13.9		4 ck	3 ks	w.	n.	inap.	inap.	fair	I. A. Reed.
Jacksonville Florida	29.96	761 0	30.00	762.0	73.5	23.1	94	s.	11	4.9		0	0			0	0	clear	J. W. Smith.
Keokuk, Iowa	28.83	732.3	29.50	749.3	51.0	10.6	93	w.	8	3.6			fg.			0.30	7.6	dense fog	F. Z. Gosewisch.
Key West, Florida	29.94	760.5	29.96	761.0	80	26.7	88	e	10	4.5		2 cs	4 ks	w.	e.	0.09	2.3	fair	A. W. Browne.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	65.5	18.6	93	se.	9	4.0			10s;fg			0	0	cloudy	Wesley Blake.
Knoxville, Tennessee	28.72	729.5	29.76	755.9	72.8	22.7	65	sw.	23	10.3			10 s		sw.	0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.72	729.5	29.51	749.5	47.8	8.8	74	n.	4	1.8			10 s			0.08	2.0	cloudy	S. C. Emery.
Leavenworth, Kansas	28.78	731.0	29.68	753.9	48	8.9	93	nw.	5	2.2		0	0			0.01	0.3	clear	T. S. Outram.
Lewiston, Idaho	29.15	740.4	30.00	762.0	52.0	11.1	47	sw.	9	4.0		0	0			0.07	1.8	clear	C. E. Butler.
Little Rock, Arkansas	29.31	744.5	29.63	752.6	68.0	20.0	90	sw.	8	3.6		0	0			0.44	11.2	clear	W. U. Simons.
Los Angeles, California	29.74	755.4	30.14	765.5	55	12.8	69	ne.	6	2.7		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	28.96	735.6	29.53	750.0	64.7	18.2	95	s.	7	3.1			10 s		sw.	2.50	63.5	cloudy	L. M Dey.
Lynchburg, Virginia	29.15	740.4	29.84	757.9	63.0	17.2	84	s.	5	2.2			10 s		sw.	0	0	cloudy	Jno. Healy.
Mackinaw City, Michigan	28.83	732.3	29.50	749.3	47.9	8.8	93	nw.	4	1.8		0	9 s		nw.	0.43	10.9	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.01	762.2	30.02	762.5	67.0	19.4	93	se.	7	3.1		6 cs	1 s	sw.		0	0	fair	William Daly.
Maginnis, Fort, Montana	25.28	642.1	29.82	757.4	35	1.7	82	e.	28	12.5		0	8 s		calm	0	0	cloudy	F. Burke.
Marquette, Michigan	28.77	730.7	29.51	749.5	45.0	7.2	83	calm		0			10 s		nw.	0.08	2.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.29	744.0	29.63	752.6	68	20.0	100	sw.	8	3.6			10 s			0.48	12.2	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	28.70	729.0	29.46	748.3	49.0	9.4	100	ne.	8	3.6			10 n		ne.	0.06	1.5	light rain	W. Line
Mobile, Alabama	29.86	758.4	29.90	759.4	75.6	24.2	88	s.	7	3.1		5 k	4 k	s.	s.	inap.	inap.	cloudy	H. U. Jones.
Montgomery, Alabama	29.64	752.8	29.87	758.7	72.5	22.5	87	s.	8	3.6		4 cs	3 s		s.	0	0	fair	Geo. E. Franklin.
Moorhead, Minnesota	28.54	724.9	29.56	750.8	44	6.7	100	calm	0	0			10 s			0	0	cloudy	H. Bessant.
Mt. Washington, N. H	23 66	601.0	30.00	762.0	25.0	— 3.9	100	s.	60	26.8			10n;fg		s.	0.31	7.9	sleeting	S. W. Beall.
Nashville, Tennessee	29.07	738.4	29.65	753.1	65.0	18.3	93	s.	5	2.2			10 ks		sw.	1.58	40.1	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.85	758.2	29.97	761.2	53.9	12 2	96	s.	9	4.0			10 n		s.	0.04	1.0	light rain	J. H. Sherman.
New London, Connecticut	29.98	761.5	30.02	762.5	53.5	11.9	96	s	17	7 6			10 s		s.	0	0	threatening	J. G. Lynch.
New Orleans, Louisiana	29.82	757.4	29.86	758.4	76.0	24.4	94	sw.	8	3.6		4 c	2 ks	w.	sw.	0.01	0.3	fair	M. Herman.
New York, New York	29.74	755.4	29.92	760.0	56.0	13.3	100	s.	4	1.8			10 n			0.14	3.6	light rain	H. J. Penrod.
Norfolk, Virginia	29.95	760.7	29.98	761 5	62.0	16.7	91	s.	12	5.4		2 cs	5 s	nw.	nw.	0	0	fair	Wm. Davis.
North Platte, Nebraska	26.84	681.7	29.80	756 9	33.6	0.9	77	w.	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.02	762.5	30.06	763.5	47.0	8.3	93	calm	0	0			10 n			0.30	7.6	light rain	J. Dascomb
Omaha, Nebraska	28.47	723.1	29.67	753.6	42.0	5.6	84	w.	6	2.7		0	0			inap.	inap.	clear	A. Pollak
Oswego, New York	29.32	744.7	29.65	753.1	59.0	15.0	75	s.	11	4.9			10 s		w.	0.01	0.3	cloudy	J. G. Linsley
Palestine, Texas	29.38	746.2	29.94	760.5	57.0	13.9	40	w.	12	5.4		3 cs	0			0.01	0.3	clear	L. M. Pindell.
Pensacola, Florida	29.88	758.9	29.91	759.7	75.3	24.1	92	s	11	4.9		5 c	1 s		s.	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa	29.78	756.4	29.88	758.9	60	15.6	93	s	8	3.6			10 n		s.	0.13	3.3	light rain	T. F. Townsend.
Pike's Peak, Colorado	17.65	448.3	29.93	760.2	10	—12.2	87	nw.	42	18.8		0	0			0.01	0.3	clear	H. Hall.
Pittsburg, Pennsylvania	28.83	732.3	29.65	753.1	61.0	16.1	96	s.	4	1.8			10 n		s.	0.87	22.1	heavy rain	G. C Schaeffer.
Poplar River					34	1.1	60	w.			4	0	0			0	0	clear	
Port Huron, Michigan	28.72	729.5	29.41	747.0	56.8	13.8	100	s.	12	5.4			10 n			0.18	4.6	light rain	M. H. Perry
Portland, Maine	30.02	762.5	30.07	763.8	51	10.6	86	s.	6	2.7			10 n		s.	0.10	2.5	light rain	W. W. Eichelberger.
Portland, Oregon	30.06	763.5	30.13	765.3	50.2	10.1	93	s	6	2.7			10 s		s.	0.15	3.8	cloudy	M. L. Hearne.
Portsmouth, N. C																			F. P. Chaffee.
Prescott, Arizona	24.94	633.5	30.10	764.5	25.3	— 3.7	74	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass	30.05	763.3	30.08	764 0	49.5	9.7	93	s.	16	7.2			10 n		s.	0.01	0.3	light rain	C. N. Kitchel.
Red Bluff, California	29.97	760.0	30.28	769.1	43	6.1	100	n.	4	1.8		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	71.0	21.7	93	n.	1	0.4		3 ck	0	w.		0	0	clear	Fred. Belford.
Rochester, N. Y	28.96	735.6	29.63	752.6	59	15.0	81	s.	14	6 3			10k;ha		w.	0	0	threatening	E. W. McCann.
Roseburg, Oregon	29.65	753.1	30.21	767.3	50.6	10.3	90	se.	2	0.9		0	9 s		sw.	0.03	0.8	threatening	J. J. Nanry.
Sacramento, California	30.20	767.1	30.28	769.1	46.0	7.8	95	se.	2	0.9		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	28.90	734.0	29.52	749.8	60.5	15.8	81	w.	19	8.5			9k;s		w.	0.47	11.9	cloudy	J. H. Weber.
St. Michael, Fort, Alaska	20.77	756.1	29.81	757.2	14.5	— 9.7	81	w.	12	5.4		0	3 s			0.07	1.8	clear	Fred. H. Clarke.
St. Paul, Minnesota	28.66	728.0	29.53	750.0	46.5	8.1	93	calm	0	0			10 s		s.	0.02	0.5	cloudy	P. F Lyons.
St. Vincent, Minnesota	28 50	723.9	29.40	746.7	39	3.9	94	s.	5	2.2			10 s			inap.	inap.	cloudy	C. B Dilley.
Salt Lake City, Utah	25.82	655.8	30.22	767.6	36	2.2	58	se.	2	0.9		0	0			inap.	inap.	clear	J. Craig.
San Diego, California	30.02	762.5	30.10	764.5	51.0	10.6	86	n.	2	0.9		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.96	761.0	30.02	762.5	71.0	21.7	90	ne.	1	0.4		0	fg.			0	0	dense fog	J. B. Marbury.
Sandusky, Ohio	28.75	730 2	29.44	747.8	59	15.0	93	sw.	14	6.3			10 s		sw.	1.75	44.4	cloudy	B. F. Hough.
Sandy Hook, New Jersey	29.90	759.4	29.93	760.2	58.0	14.4	93	s.	24	10.7			10 n			0.11	2.8	light rain	B. A. Blundon.
San Francisco, California	30.18	766.6	30.25	768.3	52.5	11.4	90	n.	7	3.1		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	29.90	759.4	29.99	761.7	70.2	21.2	93	s.	4	1.8		2 cs	fg.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.11	663.2	29.81	757.2	36	2.2	82	w.	8	3.6		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.57	751.1	29.81	757.2	61.6	10.4	55	w	9	4.0		0	0			0.03	0.8	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W M. Matthews
Sitka, Alaska	29.53	750.0	29.60	751.8	34.5	1.4	75	se.	14	6.3			10 ks		se.	0.43	10.9	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.23	742.4	29.71	754.6	54.5	12.5	74	nw.	8	3.6		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.96	761.0	30.00	762.0	66.5	19.2	91	s.	8	3.6		3 c	3 ks		sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.87	707.9	29.95	760.7	41	5.0	76	w.	10	4.5		0	0			0.04	1.0	clear	John F. Hemenway.
Springfield, Illinois	28.78	731.0	29.48	748.8	54.5	12.5	86	s.	10	4.5		0	3 s		sw.	0.65	16.5	clear	T. B. Jennings.
Stockton, Fort, Texas	27.15	689.6	30.18	766.6	36.0	2.2	58	sw.	6	2.7		0	0			0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	29.91	759.7			45.0	7.2	92	sw.	7	3.1			10 n			0.15	3.8	light rain	R. Connor.
Thomas, Camp, Arizona	27.49	698.2	30.20	767.1	31	— 0.6	71	calm			0	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	28.73	729.7	29.43	747.5	59	15.0	93	s.	7	3.1			10 s		sw.	0.97	24.6	threatening	A. Buell.
Unalaska, Alaska	30.10	764.5	30.12	765.0	32	0.0	88	sw.	6	2.7		0	0			0.07	1.8	clear	Samuel Applegate
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.51	749.5	29.77	756.1	73.3	22.9	87	s.	10	4.5			10 s		s.	1.04	26.4	cloudy	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C	29.74	755.4	29.86	758.4	60.9	16.1	89	s.	8	3.6			10 s		sw.	0.29	7.4	cloudy	T. B. Harrison.
West Las Animas, Colorado	26.00	660.4	29.93	760.2	33.5	0.8	38	w.	7	3.1		0	0			0	0	clear	F. H. Brandenbourg.
Wilmington, N Carolina	29.94	760.5	30.00	762.0	66.0	18.9	90	se.	3	1.3		7 c	0			0	0	fair	Samuel A. Haney
Yankton, Dakota	28.32	719.3	29.65	753.1	38.1	3.4	87	nw.	11	4.9		0	0			inap.	inap.	clear	E. H. Thompson.
Yuma, Arizona	29.98	761.5	30.12	765.0	50.0	10.0	86	ne.	1	0.4		0	0			0	0	clear	W. S. Delano
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			1	0	8 ks		n.	0.15	3.8	cloudy	W. H. Jackson.
Bogota, U. S. C	22.03	559.6			54.0	12.2	77	calm	0	0			10 s		sw.	0.748	19.0		Joaquin Gomez.
Kingston, Jamaica, W. I			29.96	761.0	79.2	26.2	87	se.	7	3.1		5 cs	5 s		e.	0	0	cloudy	Robert Johnstone
Paramaribo, S. A	30.04	763.0	30.04	763.0	79	26.1	82	se.			2	3 c	0			0	0	clear	Dr. C. J. Herms.
Puerto Berrio, U. S. C	29.38	746.2	29.94	760.5	74	23.3	94	n.			1	8 ck	2 ks	calm	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A					75	23.9	89	nw.			1		2 ks		ne.	0.60	15.2	fair	Earl Flint.
York Factory, B. A	30.28	769.1	30.34	770.6	32.5	0.3	94	ne.	9	4.0		4 k	3 s	ne.	ne.	0	0	cloudy	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 25', E. 26° 54'	30.08	764.0	77	25.0	65	wsw.			2		1	wsw.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.07	763.8	68.5	20.3	74	nnw.			3		7	nnw.						d. clouds.
H. M. S. Flamingo, N. 35° 58', W. 65° 10'.	30.16	766.1	68	20.0	90	n.			2		1	n.				2	nnw.	blue sky.
H. M. S Himalaya, N. 35° 00', W 56° 10'	29.93	760.2	69	20.6	61	nnw.			5		5	sse.				3	nnw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.02	762.5	74	23.3	81	nnw.			2		2	nnw.						d. clouds.
H. M. S. Monarch, Symrna, Turkey in Asia	30.07	763.8	72	22.2	67	w.			2		3	se.						d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.94	760.5	80	26.7	82	sse.			1			calm						d. clouds.
H. P. M. S. Douro, St. Thomas, W.I	29.92	759.9	83.3	28.5	79	s.			6		5					6	se.	d. clouds.
U. S. Navy Yard, Portsmouth, N.H.*	30.02	762.5	46	7.8	100	se.	14	6.3			10		se.	0.10	2.5			rainy.
U. S. S. Jamestown, N. 40° 12', W. 71° 45'	30.03	762.7	60	15.6	88	s.			5		10		s.			sm'h		cloudy.
U. S. S. Kearsarge, Algiers, Africa	30.07	763.8	72	22.2	76	ne.			1		5?							clear ?
U. S. S. Lancaster, Algiers, Africa	30.02	762.5	72	22.2	76	calm			0		2		calm			sm'h		fair.
U. S. S. New Hampshire, Newport, R. I.*	29.98	761.5	53	11.7	93	sse.			4		10					sm'h		cloudy.
U. S. S. Powhatan, Boston, Mass.	30.03	762.7	47	8.3	100	ese.			4		10							rainy.
U. S. S. Quinnebaug, Leghorn, Italy	30.21	767.3	66	18.9	64	ne.			2		2		ne.					fair
U. S. S. Saratoga, Poughkeepsie, N. Y.	29.92	760.0	56	13.3	94	sse.			2-3		10		se.	light	light	sm'h	se.	rainy.
U. S. S. Swatara, Port au Prince, Hayti, W.I.	29.99	761.7	78	25.6	86	ene.			1		2		ene.	light	light	sm'h		fair.
U. S. S. Vandalia, New York, N. Y	29.95	760.7	56	13.3	100	s.			3		10							raining.
S. S. British Crown, N. 40° 09', W. 65° 58' †	30.16	766.1	58	14.4		e.			4		3		e.	0	0	long	ene.	clear.
S. S. British Prince, N. 51° 27' W. 27° 40'*†	29.54	750.3	56	13.3		se.			8		10		se.	1 h'r	1 h'r	h'vy	sse.	light rain.
S. S. British Princess, N. 50° 17' W. 23° 09' †	30.01	762.3	52	11.1		ssw.			6		10		ssw.	4 h'r	4 h'r	r'gh	sw.	overcast.
S. S. Lord Gough, N. 38° 50', W. 74° 30'	29.88	758.9	58	14.4		se.			4		10		se.	0	0	sm'h		cloudy.
S. S. Ohio, N 42° 13', W. 62° 51'†	30.21	767.3	48	8.9	85	ne.			3		10		ne	0	0	sm'h	ne.	cloudy.
S. S. Prussian, Glasgow, Scotland			56	13.3		nne.			2		10		w.	0	0			foggy.
S. S. Scandinavian, N. 55° 05', W. 16° 40' *	30.14	765.5	50	10.0		ssw.			5		2		nnw.	2 h'r	2 h'r	cross	var.	d. clouds.
S. S. Sardinian, N. 50° 07' W. 59° 00'	30.19	766.8	28	— 2.2		nne.			4		0			0	0	sm'h		clear.
S. S. Alvo, Aux Cayes, Hayti, W. I.*	29.98	761.5	80	26.7		calm			0		6		calm	1 h'r	1 h'r			fine.
S. S. Andes, N. 35° 50', W. 70° 56'			68	20.0		s.			2		10							cloudy.
S. S. Ailsa, N. 16° 05', W. 77° 14'			78	25.6	100	n.			4		0			0	0	mod.	ne.	fine.
S. S. Avilla, San Juan, Porto Rico, W.I.			81	27.2		se.			2		3		e.	rain	rain	sm'h		
S. S. Devonia, N. 41° 24', W. 64° 40'*†	30.15	765.8	49	9.4		ne.			1		3		ne.			h'vy	ene.	clear.
S. S. Dorian, Boston, Mass.	30.04	763.0																
S. S. Ethiopia, N. 54° 08', W. 23° 30' †	29.74	755.4	52	11.1	100	s.			6		10		sw.	4 h'r	4 h'r	6	sw.	overcast.
S. S. Llandaff City, N. 40° 37', W. 63° 48'†	30.16	766.1	48	8.9		ne.			2		4		se.	0	0	long	ene.	fair.
S. S. Gallia, N. 51° 12', W. 16° 54'	30.17	766.3	57	13.9	75	e.			5		5		ne.	0	0	mod	w.	fair.
S. S. Pavonia, N. 44° 16', W. 45° 04'*	29.61	752.1	48	8.9	85	n.			7		6		n.	1 h'r	1 h'r	r'gh	n.	
S. S. Scythia, N. 41° 29', W. 62° 39'	30.21	767.3	56	13.3	87	n.			1		8		calm	2 h'r	2 h'r	mod.	e.	
S. S. Samaria, N. 50° 39', W. 19° 10' *	30.12	765.0	55	12.8		e.			4		5?		s.	0	0	long	nw.	cloudy.?
S. S. Canada, N. 45° 18', W. 53° 07'*	30.03	762.8	37.4	3		ne.			4		8		ne.	0	0	h'vy	ne	cloudy
S. S. France, N. 42° 49', W. 59° 44'			46.4	8		ne.			2		6		ne.	0	0	sm'h	ne.	fair.
S. S. Olinde Rodrignes, N. 10° 37' W. 67° 00' * †	29.88	758.9	89	31.7		calm			0		0			0	0	sm'h		clear.
S. S. Wisconsin. N 51° 16', W. 16° 10' *	30.16	766.1	56	13.3		ese.			5		0			2 h'r	2 h'r	long	w.	clear.
S. S. Bohemia, N. 46° 30', W 73° 17'*†	29.96	761.0				ssw.			1-5		10					sm'h	sw.	rainy.
S. S. Frisia, N. 50° 06' W. 20° 16'	30.08	764.0	55	12.8		s.			4		5		s.	2 h'r	2 h'r	long	nw.	fair.
S. S. Gellert, N. 43° 25', W. 56° 50'			51	10.6	79	nnw.			5		10		s.	8 h'r	8 h'r	r'gh	nne.	covered.
S. S. Lessing, N. 45° 15' W. 52° 40'	29.99	761.7	49	9.4		nnw.			6		10		nnw.	3 h'r	3 h'r	h'vy	n.	cloudy.
S. S. Westphalia, New York, N. Y	29.95	760.7	56	13.3	100	s.			3-4		6		s.	4 h'r	4 h'r			raining.
S. S. Rhaetia, N. 47° 24' W. 43° 12'	29.56	750.9	41	5.0	91	wnw.			6-7		8		wnw.	8 h'r	8 h'r	long	wnw.	squally.
S. S. Nessmore, N. 50° 56', W. 27° 20'	29.53	750.0	56	13.3	94	se.			9		10		se.	0	0	high	sse.	cloudy.
S. S. Bulgarian, N. 42° 35', W. 65° 42' *	30.23	767.8				e.			2		10		e.	0	0	light	e.	cloudy.
S. S. Virginian, N. 50° 12' W. 27° 29'*	29.57	751.1	54	12.2		sse.			9				sse.	4 h'r	4 h'r	hv'y	sse.	cloudy.
S. S. Archimedes, N. 3° 27'. W. 29° 49'	29.91	759.7				se.			4		2		se.	85 minutes		mod.	se.	fine.
S. S. Hevelius, N. 50° —', W. 8° —'†	30.24	768.1	60	15.6		sse.			4				ssw.	0	0	high	w.	hazy
S. S. Sirius, N. 26° 07', W. 63° 35'	30.04	763.0				n.			2		2		n.	0	0	mod	n.	clear.
S. S. Rio Grande, N. 26° 20' W. 86° 34' †	29.98	761.5	84	28.9		se.			3		2?		se.	12 h'r	12 h'r	mod.	e.	overcast.?
S. S. Lampassas, N. 36° 00', W. 75° 10'*†	30.00	762.0	70	21.1		s.			7		7		s.	1 h'r	1 h'r	h'vy	sse.	cloudy.
S. S. Chalmette, N. 34° 13', W. 75° 35'†	29.97	761.2	76	24.4		ssw.			6		8		ssw.	1 h'r	1 h'r	r'gh	ssw.	cloudy.
S. S. New York, N. 28° 00', W. 87° 45'			80	26.7		ssw.			5		5		se.	0	0	mod.	sse.	fair.
S. S. Alleghany, Baltimore, Md. †	29.89	759.2	61	16.1		se.			2		8		s.	light	light			rainy.
S. S. Archimede, N. 36° 40', W. 14° 09'†	29.94	760.5	70	21.1		nne.			3		3		ne.	0	0	mod.	nnw.	clear.
S. S. City of Washington, Vera Cruz, Mexico*†	29.85	758.2	85	29.4		var.			2		5		ene.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 25° 48', W. 76° 39'			81	27.2		ese.			5		4		ese.	2 h'r	2 h'r	mod.	e.	fine.
S. S. Grecian, Liverpool, Eng	30.24	768.1	52	11.1	100	s.			4		5?		s.	0	0			cloudy?
S. S. England, N. 50° 23', W. 23° 28'	29.93	760.2				s.			6		10		s.	sq'lls	sq'lls	high	e.	squally.
S. S. Erin, New York, N. Y			54	12.2		se.			5		10		se.	5 h'r	5 h'r			raining.
S. S. Holland, N. 42° 03', W. 50° 57'	29.97	761.2	43	6.1		nne.			6		7		nne.	4 h'r	4 h'r	high	ne.	
S. S. The Queen, N. 40° 32', W. 73° 45'			55	12.8		sse.			5		10		sse.	1 h'r	1 h'r	mod.	sse.	rainy.
S. S. America, N 49° 34', W. 14° 00' *	30.12	765.0	57.0	13.9	81	ne.			4		8		ne.	0	0	long	nw.	cloudy.
S. S. Donau, N. 49° 13', W. 14° 13'	30.21	767.3				se.			2		5		se.	0	0	sm'h	se.	fair.
S. S. Elbe, N. 49° 02', W. 39° 22'	29.22	742.3	49.1	9.5	93	n.			5		6		ne.	7 h'r	7 h'r	high	var.	fair.
S. S. Hermann, N. 50° 03', W. 23° 00'	29.93	760.2	55.4	13.0	77	s.			7		10		s.	0	0	high	s.	covered.
S. S. Orinoco, New York, N. Y †	29.98	761.5	62	16.7		s.			5		10		s.	4 h'r	4 h'r			raining.
S. S. Main, N. 47° 58', W. 45° 03'	29.51	749.5	37.4	3.0		nnw.			6		6		nnw.	6 h'r	6 h'r	h'vy	nnw.	hailing.
S. S. Neckar, N. 41° 25', W. 63° 36'	30.22	767.6	50.0	10.0	65	ne.			3		4		ene.	0	0	sm'h	ene.	fair.
S. S. Ohio, N. 40° 11', W. 61° 17'	30.02	762.5				ne.			3		10		ene.	1 h'r	1 h'r	h'vy	ne.	cloudy.
S. S. Rhein, N. 49° 15', W. 25° 46'						s.			7		9		s.	3 h'r	3 h'r	h'vy	s.	raining.
S. S. Weser, N. 41° 17', W. 40° 31'	29.39	746.5	60.8	16.0		nw.			6		10		nw.	2 h'r	2 h'r	long	sw.	cloudy.
S. S. City of Augusta, N. 33° 08', W. 75° 12'						ese.			4		10		se.	0	0	sm'h		cloudy.
S. S. Muriel, N. 27° 20', W. 67° 15'	30.06	763.5	77	25.0		n.			3		0			0	0	mod.	n.	clear.
S. S. Rhynland, N. 45° 02', W. 51° 55'	30.00	762.0	56	13.3		nne.			7		8		n.	6 h'r	6 h'r	high	ne.	cloudy.
S. S. Pennland, N. 49° 54', W. 10° 04'†	30.09	764.3	55	12.8	87	s.			1		10		sw.	0	0	str'ng	s.	cloudy.
S. S. Switzerland, N. 50° 24', W. 21° 31'*†	30.07	763.8				sse.			3		5		sse.	4 h'r	4 h'r	high	nw.	fair.
S. S. Vaderland, N. 42° 15', W. 54° 10'	30.15	765.8	46	7.8		ne.			6		6		ne.	5 h'r	5 h'r	high	ne.	raining.
S. S. Waesland, N. 41° 18', W. 64° 40'			52	11.1		ene.			2		5		w.	0	0	long	ene.	fair.
S. S. P. Caland, N. 46° 10', W. 48° 12'	29.72	754.9	40.3	4.6	79	nnw.			7		6		nw.			6	nnw.	squally.
S. S. Schiedam, N. 42° 58', W. 57° 23'	30.13	765.3	51.4	10.8	86	nne.			4		8		ene.	2 h'r	2 h'r	long	ene.	cloudy.
S. S. Zaandam, Amsterdam, Holland	30.33	770.4	54.0	12.2	90	ne.			2		5		ne.	0	0			fair.
S. S. Caracas, Curacoa, W.I*†	29.91	759.7	83.5	28.6	89	e.			4		2		e.	0	0	sm'h		clear.
S. S. W. A. Scholten. N. 49° 47', W. 5° 50'	30.27	768.8	57.2	14.0	89	s.			4		8		ese.					
S. S. Valencia, N. 33° 46', W. 72° 02'*†	30.02	762.5	71	21.7	71	s.			2		4		sw.	0	0	gentle	ene.	fair.
S. S. State of Georgia, N. 55° 10', W. 13° 56'			53	11.7		s.			2		3		w.	0	0	h'vy	w.	hazy.
S. S. State of Indiana, N. 44° 00' W 54° 31' * †	30.15	765.8	42	5.0		n.			5		9		ne.	0	0	r'gh	ne.	cloudy.
S. S. State of Alabama, N. 34° 19', W. 47° 46'*†	29.64	752.8	68	20.0		nnw.			6		9		nw.	8 h'r	8 h'r	r'gh	nw.	cloudy.
S. S. Thingvalla. Christiana, Norway			45.5	7.5		calm			0		10			4 h'r	4 h'r			foggy.
S. S. Romano, off Scilly Islands, Eng			58	14.4		ese.			2		10			0	0	light	w.	foggy.
S. S. Salerno, New York, N. Y†	29.92	760.0	56	13.3		s.			4		10		se.	1.5	38.			raining.
S. S. Dominion, N 56° 10', W. 24° 16'*†	29.86	758.4	48	8.9		sw.			6		10		sw.			r'gh	sw.	cloudy.
S. S. Oregon, Quebec, Quebec	29.94	760.5	39	3.9		ese.			2		10		ese.			mod.	ne.	raining.
S. S. Quebec, Liverpool, Eng	30.24	768.1	52	11.1		se.			2		8		se.	0	0			cloudy.
S. S. Texas, N. 34° 40', W. 30° 43' *†	29.98	761.5	70	21.1	90	s.			6		1		sw.	0	0	h'vy	se.	clear.
S. S. Olbers, N. 49° 23', W. 30° 09'	29.26	743.2				s.			9		10		s.	12 h'r	12 h'r	high	var.	raining.
S. S. Daniel Steinmann, N. 46° 28', W. 42° 56'†	29.58	751.3	44	6.7		wnw.			6		9		nnw.	8 h'r	8 h'r	h'vy	n.	cloudy
S. S. Plantyn, N. 46° 39', W. 45° 04'	29.56	750.8							7		6		nw.	4 h'r	4 h'r	h'vy	nnw.	
S. S. Britannic, N. 41° 00', W. 61° 40'†	30.14	765.5	54	12.2		n.			3		6		e.	0	0	long	e.	d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
S. S. Celtic, N. 47° 18′ W. 45° 49′†	29.59	751.6	48	8.9		nnw.			6		5		nw.	8 h'r	8 h'r	hv'y	n.	cloudy.
S. S. Iowa, N. 44° 02′, W. 56° 42′†	30.15	765.8	43	6.1		n.			4		8		n.	4 h'r	4 h'r	mod.	ne.	cloudy.
Bk. Arda, N. 20° 08′, W. 67° 38′						e.			2		4		e.	0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.53	775.4	45	7.2	92	se.			2		5		se.	0	0			fair.
Bg. Abbie Clifford, Fort de France, Martinique, W.I†	29.96	761.0	81	27.2		e.			1		2			0	0			fine.
Schr. Arthur Burton, N. 32° 55′. W. 78° 50′						s.			1		2		s.	0	0	chop	s.	clear.
Schr. Abbie H. Gheen, N. 39° 30′, W. 73° 40′ †.	30.00	762.0	60	15.6		se.			7									stormy.
S. S. Antonio Lopez, Barcelona, Spain *	30.13	765.3	65	18.3	89	ene			4		10			1 h'r	1 h'r			cloudy.
Bg. Alcira, Maracaybo, Venezuela	29.92	760.0	85	29.4		e.			1		3		ene.	0	0			clear.
Bgt. Achsah, N. 36° 00′, W. 62° 19′ †	30.02	762.5	67	19.4		n.			5		8		n.	1 h'r	1 h'r	long	n.	cloudy.
Schr. Adda Doane, N. 11° 40′, W. 61° 00′*†	29.96	761.0				ese.			2		3		se	0	0	sm'h		clear.
Bg. Belle of the Bay, N. 31° 17′, W. 88° 35′†	29.85	758.2				ssw.			5		5		sw.	0	0			threatening.
Schr. Clotilde, N. 22° 54′, W. 97° 10′ †	29.88	758.9	84	28.9		se.			3		5		se.	0	0	h'vy	ese.	fair.
Schr. C. R. Flint, N. 17° 12′, W. 76° 32′†	30.02	762.5	82	27.8		ene.			4		5		ese.	2 h'r	2 h'r	mod.	e.	fair.
S. Carondelet, N. 30° 00′, W. 40° 00′ *†	30.03	762.7				ssw.			6		1		ssw.	½ h'r	½ h'r	mod.	var.	clear.
S. David Stewart, Chesapeake Bay			60	15.6		ssw.			5		4		sse.					
S. David Crockett, N. 19° 46′, W. 41° 07′			82.5	28.1	77	ese.			3		2		ese.	0	0	sm'h	se.	blue sky.
S. E. J. Spicer, New York, N. Y.	29.90	759.4	57	13.9	100	sse.			4		10		sse.	7 h'r	7 h'r			raining.
U. S. Fish Com. S. S Fish Hawk, Norfolk, Va †	30.04	763.0	66	18.9	94	s.			2		9		calm	0	0			cloudy.
Bk. Galeon, N. 31° 59′, W. 77° 02′ †	30.08	764.0	76	24.4		ssw.			5		2		ssw.	0	0		e.	blue sky.
Bk. Hattie G. McFarland, Barbadoes, W. I †	29.99	761.7	78	25.6		ese.			2		6		se.	10 h'r	10 h'r			
S. Hedwig, N 38° 28′ W. 74° 07′			64.2	17.9	93	sse.			5		8		var.	0	0	1	s.	hazy.
Bk. Heinrich & Tonio, N. 43° 34′, W. 39° 00′	29.35	745.5	67.5	19.7		wsw.			5		10		w.	5 h'r	5 h'r	high	sw.	squally.
Schr. Isabel Alberto, N. 36° 27′, W. 74° 51′						sse.			2		10		s.	light	light	mod.	ene.	cloudy.
Schr. Jennie N. Huddell, off Cape Henlopen, Del †	29.97	745.5	63	17.2	94	ssw.			3		10		nw.	0	0	short	s.	cloudy.
Bg. John Wesley, N. 10° 50′, W. 46° 08′			82	27.8		ese.			5		10		se.	5 h'r	5 h'r	cross	var.	squally.
Bk. John H. Pearson, N. 18° 47′, W. 40° 00′						ese.			4				se.	0	0	long	nnw.	clear.
Schr. John Bracewell, Portsmouth, N. H						sse.			5		10		s.	6 h'r	6 h'r			rainy.
Bg. Josefa, N. 32° 26′, W. 72° 18′						calm			0		6?		s.	0	0	sm'h	nw.	clear?
Bkt. John Balzley, N. 36° 07′, W. 46° 54′*†	29.74	755.4				n.			9		9		nne.	rain	rain	h'vy	nnw.	raining.
Bg. Lillian, off Manasquan, N J †	29.92	760.0	57	13.9		sse.			5		10					sm'h	sse.	raining.
Bg. L. & W. Armstrong, N. 27° 55′, W. 63° 01′*†	30.04	763.0				nnw.			4		1		nnw.	0	0	sm'h	nnw.	fine.
S. S. Madrid, N. 48° 00′, W. 6° 04′			58	14.4	100	ese.			3		fg.			0	0	mod.	nnw.	fair.
S. S. Mendoza, N. 15° 58′, W. 53° 39′						ene.			1				ene.	0	0	sm'h	se.	clear.
B. Matthias, N. 48° 48′, W. 14° 30′ *†	30.13	765.3	58	14.4		sse.			1		10					4	var.	foggy.
Schr. Norena, Humacao, Porto Rico						nne.			1		2		ene.	1 h'r	1 h'r			showery.
Bk. National Eagle, N. 37° 32′, W. 0° 47′						e.			4		8		e.	0	0	sm'h		cloudy.
S Rudolph, N. 50° 47′, E. 0° 51′ *	30.24	768.1	48.5	9.2		ene.			3		10		ene.	0	0	sm'h	ene.	foggy.
Schr. Rollin Sanford, Key West, Fla †	29.96	761.0				ene.			3		10		e.					raining.
Bg. Rising Sun, San Juan, Porto Rico†	29.97	761.2	83	28.3									ese.	0	0	mod.	ene.	foggy.
Bk. Saga, N. 51° 11′, E. 1° 50′*†	30.16	766.1	58	14.4		var.			2–4		7			0	0	long	nne.	fair.
S. Salisbury, N. 36° 04′, E. 17° 05′	29.95	760.6	69.6	20.9	87	nne.			4	5 ck	0		nne.					
Bgt. Sunlight, N. 23° 54′, W. 57° 35′ †	29.96	761.0				nne.			5		9		ne.	2 h'r	2 h'r	mod.	se.	cloudy.
Bk. Samuel B. Hale, N. 6° 21′, W. 27° 00′						ese.			3				ese.			long	s.	showery.
Bk. Sunbeam, Rotterdam, Holland †	30.24	768.1	56	13.3	88	ene.			3		5		ene.	0	0			fair.
Bk. Scud, off San Juan, Porto Rico *†	30.02	762.5	86	30.0		ene.			5		2		ene.	0	0	sm'h		fine.
S. St. Francis, N. 21° 14′, W. 38° 00′			80	26.7		se.			2		2		s.	0	0	sm'h	ene.	fair.
Bk. St. Lawrence, N. 24° 04′, W. 65° 15′						nne.			1				nne.			long	nne.	clear.
Bk. Southern Belle, N. 24° 20′, W. 38° 20′†	29.93	760.2	70	21.1		n.			4		2			0	0	h'vy	n.	clear.
Bk. Tuck Sing, N. 31° 48′, W. 71° 39′						calm			0		0			0	0	light	nne.	clear.
Schr. Walter L. Plummer, N. 20° 01′, W. 70° 36′ *†	30.04	763.0				ene.			2		1		e.			sm'h	e.	clear.
Bk. Pilgrim, N. 15° 10′, W. 49° 00′*†	30.00	762.0				e.			3		3		e.	0	0	mod.	ene.	clear.
Bk. Achille F, N. 6° —′, W. 46° 45′ †	29.93	760.2	78	25.6		sw.			3		3		sw.	rain	rain	long	ssw.	fine.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	30.00	762.0	59.2	15.1	86	sse.			2		2	sw.				3	sse.	blue sky.
H. M. S. Boadicea, Angra Pequena, Namqualand	29.92	760.0	62	16.7	100	s.			3		5	se.				2	s.	d. clouds.
H. M. S. Sylvia, S. 37° 02′, W. 56° 17′	30.08	764.0	53	11.7	65	s.			3		2	calm				2	s.	blue sky.
U. S. S. Brooklyn, S. 35° 05′, E. 2° 33′ *	30.07	763.8	62	16.7	83	nnw.	4	1.8	4		8		calm	0	0	sm'h		fair.
U. S. S. Nipsic, S. 35° 10′, W. 57° 05′*.	30.06	763.5	60	15.6	88	wsw.			2		2		sw.			sm'h		fair.
S. S. Rosse, S. 40° 12′, W. 39° 26′ *	29.97	761.2	80	26.7		ssw.			5		8		ssw.	1⅛h'r	1⅛h'r			overcast
S. S. Teniers, S. 10° 00′, W. 35° 50′	30.00	762.0	81.1	27.3	80	ne.			4	c	3 k			0	0	3	ene.	blue sky.
Bk Alpheus Marshall, S. 33° 52′, W. 16° 58′*†	30.03	762.7	58	14.4	82	sw.			3		9		sw.	⅛h'r	⅛h'r	mod.	sw.	fair.
S. Armenia, S. 55° 10′ W. 61° 00′ *	29.26	743.2	50	10.0	79	nnw.			5		10			0	0	r'gh	nnw.	overcast.
Bk. Bore, S. 17° 32′, W. 4° 03′*†	30.53	775.4	70	21.1		ese.			3		5		e.	0	0	sm'h	se.	fair.
Bk. Ceylon, S. 17° 02′. W. 35° 42′†	30.09	764.3	81	27.2	87	n.			4		3		nnw.	0	0	mod.	nne.	clear.
S. Dynomene, S. 13° 00′, W. 32° 10′	30.01	762.2	79	26.1	91	ene.			3		5			0	0	mod.	ene.	d. clouds.
S. Frank N. Thayer, S. 26° 12′, E. 7° 54′*†	30.13	765.3	71	21.7	62	se.			1		10 ks		se.	0	0	mod.	s.	d. clouds
Bkt. Louise Adelaide, S. 25° 15′, W. 38° 18′†	29.99	761.7				wsw.			3		3		wsw.	0	0	r'gh	nne.	fair.
Bk. Rosalie, S. 1° 26′, W. 31° 25′*†	29.92	760.0				se.			5		4		se.	½ h'r	½ h'r	mod.	se.	fair.
Bgt. Willie, Montevideo, Uruguay *†	30.01	762.2	60	15.6		s.			4		1		s.	0	0	short	s.	clear.
Bk. Childwall, S. 43° 01′, E. 2° 07′ *	30.00	762.0	59	15.0		ne.			3		8		nne.	0	0	sm'h		foggy.
District No. 3—North Pacific.																		
H. M. S. Audacious, Kobe Bay, Japan	30.11	764.8	65	18.3	94	calm			0		0							blue sky.
H. M. S. Champion, N. 5° 06′, E. 100° 00′	29.86	758.4	80	26.7	91	nne.			3		10	ne.				2	ne.	overcast.
H. M. S. Flying Fish, Shanghai, China	30.11	764.8	66.8	19.3	89	ne.			1		10							misty.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.85	758.2	78.7	25.9	91	nw.			1		6							misty.
H. P. M. S. Tamega, Macao, China	30.01	762.2	78.8	26.0	80	ne.			3		0			0	0			blue sky.
U. S. Naval Hospital, Yokohama, Japan			60	15.6	97	nnw.			1		8		w.	0.93	23.6			clearing.
U. S. S. Essex, Nagasaki, Japan	30.10	764.5	69	20.6	85	n.			1		5							fair.
U. S. S. Hartford, Panama, Panama*	29.84	757.9	78	25.6	91	nw.			2		5			0	0			fair.
U. S. S. Juniata, Canton, China	30.01	762.2	78	25.6	90	s.			1		2			0	0			fair.
U. S. S. Monocacy, N. 33° 36′, E. 125° 40′	30.17	766.3	69	20.6	75	ene.			2		5		calm			sm'h		fair.
U. S. S. Pensacola, N. 33° 45′, E. 131° 53′			68	20.0	90	n.			1		2			light	light			fair.
U. S. S. Ranger, N. 26° 34′, W. 115° 15′	30.06	763.5	65	18.3	78	ne.			4		0			0	0			clear.
U. S. S. Richmond, Kobe, Japan	30.16	766.1	67	19.4	74	nne.			1		0			3.6	91.			clear.
S. S. City of Chester, San Francisco, Cal. †	30.25	768.3	53	11.7	86	ne.			2									clear.
S. S. Columbia, N. 45° 35′, W. 124° 12′†	30.14	765.5	54	12.2	87	w.			4		10		w.			h'vy	w	cloudy.
S. S. Ancon, Pt. Fermin, Cal.†	30.10	764.5	57	13.9	87	sw.			2		0			0	0	sm.h		clear.
S. S. Queen of the Pacific, N. 42° 18′, W. 124° 51′†	30.23	767.8	53	11.7	94	s.			5		10			6 h'r	6 h'r	light	var.	rain & fog.
S. S. Victoria, San Francisco, Cal.			53	11.7	79	calm			0		5							fair.
S. S. City of Pekin, N. 45° 07′, E. 173° 35′†	30.42	772.7	46	7.8	77	nne.			2		8		e	0	0	mod.	e.	cloudy.
S. S. City of Sydney, N. 37° 20′, W. 124° 00′*†	30.16	766.1	62	16.7	83	nnw.			2		0					mod.	ne.	clear.
S.S. City of Rio de Janeiro, N. 35° 06′, W. 143° 45′†	30.42	772.7	65	18.3	89	n.			2		2		nnw.	0	0	light	nw.	clear.
S. S. Colima, Panama, Panama†	29.97	761.2	78	25.6	86	calm			0–1		9		calm	0.40	10.2			cloudy.
S. S. San Blas, N. 32° 43′, W. 118° 23′ †	30.12	765.0	59	15.0		calm			0		0			0	0	sm'h	nw.	clear.
S. S. San Juan, N. 13° 54′, W. 90° 48′			77	25.0		n.			3		0			0	0	light	s.	fine.
S. S. Zealandia, N. 17° 21′, W 159° 48′			70	21.1	85	w.			4		8			2 h'r	2 h'r	h'vy	w.	squally.
S. S. Alameda, Honolulu, Sandwich Islands †	29.97	761.2	75	23.9		nne.			3		5		ne.	0	0			fair.
S. Parker M. Whitmore, N. 11° 00′, W. 120° 30′*†	29.86	758.4	80	26.7		e.			2		5		e.	3 h'r	3 h'r	cross	var.	squally.
S. Sovereign of the Seas, N. 12° 50′, W. 120° 32′			80	26.7	96	ne.			5		5?		var.	2 h'r	2 h'r	r'gh	nne.	overcast.?

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.84	757.9	81.3	27.4	91	ene.	.....	.....	3	.....	4	.....	.....	.....	.....	sm'h	.....	squally.
H. M. S. Mutine, Coquimbo, Chili	30.11	764.8	59	15.0	.....	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	misty.
H. M. S. Nelson, Sydney, N. S. W	30.20	767.1	58	14.4	58	w.	.....	.....	1	.....	8	.....	.....	.....	.....	.....	.....	showery.
U. S. S. Iroquois, Callao, Peru	30.04	763.0	60	15.6	94	se.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.04	763.0	58	14.4	76	calm	.....	.....	0	.....	10	.....	nw.	.....	.....	.....	.....	overcast.
U. S. S. Onward, Callao, Peru *†	30.10	764.5	60	15.6	88	calm	.....	.....	0	.....	10	.....	.....	.....	.....	mod.	w.	misty.
U. S. S. Wachusetts, Valparaiso, Chili*	30.13	765.3	58	14.4	82	calm	.....	.....	0	.....	10	.....	calm	.....	.....	sm'h	.....	overcast.
S. S. Australia, Sydney, N. S. W	30.09	764.3	67	19.4	94	s.	.....	.....	3	.....	2†	.....	s.	0	0	.....	.....	cloudy.?
S. S. City of New York, Sydney, N. S. W.†	29.83	757.7	60	15.6	76	sw.	.....	.....	1	.....	2	.....	sw.	0	0	.....	.....	fair.
Bk. E. L. Pettingill, S. 59° 12′, W. 71° 40′*†	28.90	734.0	34	1.1	.....	w.	.....	.....	8	.....	3	.....	wsw.	0	0	h'vy	wnw.	clear.
S. E. B. Sutton, S. 33° 30′, W. 123° 00′ *†	30.20	767.1	66	18.9	100	ne.	.....	.....	4	.....	9	.....	ne.	12 h'r	12 h'r	h'vy	var.	overcast.
S. J. W. Gildemeister, S. 29° 40′, E 157° 40′	30.01	762.2	62.6	17	80	sw.	.....	.....	3	.....	0	.....	.....	.....	.....	3	sw.	blue sky.
Bk. Chas. Stewart, S. 8° 30′, W. 83° 50′†	30.11	764.8	65	18.3	.....	sse.	.....	.....	6	.....	fg.	.....	se.	.....	.	long	sse.	overcast
S. Storm King, S. 37° 19′, W. 117° 55′*†	30.36	771.1	.....	.....	.....	ne.	.....	.....	4	.....	7	.....	ne;w.	4 h'r	4 h'r	long	s.	cloudy
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, N. 1° 15′, E. 46° 30′	29.90	759.4	80	26.7	82	calm	.....	.....	0	.....	3	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.92	760.0	80	26.7	96	n.	.....	.....	2	.....	2	sse.	.....	.....	.....	2	nnw.	showery.
H. M. S. Tourmaline, S. 9° 20′ E. 45° 00′	29.96	761.0	80	26.7	87	se.	.....	.....	2	.....	2	se.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Woodlark, Bushir, Persia	30.13	765.3	79.5	26.4	78	w.	.....	.....	2	.....	2	w.	.....	.....	.....	.....	.....	misty.
Bk. Great Surgeon, Anjer Roads, Java*†	29.90	759.4	84	28.9	.....	w.	.....	.....	5	.....	2	.....	w.	0	0	sm'h	w.	clear.
Bk. Mohican, S. 42° 31′, E. 58° 35′	29.93	760.2	50	10.0	.....	sw.	.....	.....	8	.....	10	.....	wsw.	12 h'r	12 h'r	r'gh	wnw.	cloudy.
S. S. Radnorshire, N. 10° 00′, E. 60° 25′*†	29.92	760.0	.....	.....	.....	ne.	.....	.....	4	.....	8	.....	ne.	2 h'r	2 h'r	sm'h	.....	cloudy.
S. S. Strathleven, N. 5° 41′, E. 95° 50′	29.85	758.2	80.0	26.7	87	ene.	.....	.....	0	.....	3	.....	.....	mod.	mod.	.....	.....	blue sky.
S. S. Galatia, Little Bitter Lake, Egypt†	30.01	762.2	75	23.9	77	nw.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 30, 1883.

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.03	762.8	71.6	22.0	87	e.			1		10			0.118	3.0	covered	Roziere.
Algiers			30.05	763.3	70.2	21.2	68	ne.			2		0			0	0	clear	Thève.
La Calle			30.08	763.9	69.1	20.6	76	ene.			5		2			0	0	fair	Fonfrède.
Tunis			30.16	766.0	68.4	20.2	61	ene.			3		3			0	0	pretty fair	Delord.
Saida			30.08	764.0															Pérès.
Tebessa					62.6	17.0	90	nw.			2		4			0	0	cloudy	St. Martin.
Geriville					71.6	22.0	17	nw.			2		4			0	0	cloudy	Forfert.
Laghouat			30.20	767.1	75.9	24.4	47	ne.			1		0			0	0	clear	Abraham.
Biskra			30.22	767.5	77.4	25.2	52	se.			1		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.31	769.9	54.0	12.2	68	s.	11	4.9			10 k			0.055	1.4	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.02	762.5	30.11	764.8	53.4	11.9	72	sw.	6	2.7			9			0.20	5.1	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.87	758.8	30.43	772.8	61.5	16.4	42	ne.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.71	754.6	30.50	774.6	49.1	9.5	80	ese.	3.8	1.7			10			0	0		Dr. Wierzbiski
Eperies	29.56	750.7	30.45	773.3	55.4	13.0	71	calm			0	1 cs				0	0		Julius Mikolik.
Gratz	29.17	740.9	30.43	772.9	57.9	14.4	70	nw.			1		1			0	0		Andreas Rospini.
Hermannstadt	29.02	737.0	30.48	774.1	54.5	12.5	57	se.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.97	735.9	30.34	770.7	48.0	8.9	95	calm			0		10			0	0	cloudy	The Staff.
Lemberg	29.56	750.8	30.57	776.5	49.8	9.9	55	se.			3		1			0	0		Dr. T. Stanecki.
Pola	30.15	765.8	30.26	768.6	64.8	18.2	64	ne.			4		4			0	0		I. R. Hydrographic Office.
Szathmar	29.97	761.1	30.43	773.0	59.7	15.4	57	se.			4		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.15	765.9	30.44	773.1	55.4	13.0	75	s.			1		6			0	0		Karl Stancel.
Trieste	30.19	766.8	30.29	769.3	65.8	18.8	44	ne.			5		3			0	0		Royal Academy.
Vienna	29.73	755.2	30.47	773.8	50.2	10.1	96	se.			1		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.32	770.1	30.42	772.7	49.7	9.8	87	s.	14	6.3			6			0	0	misty	W. Boswell.
Armagh, Observatory	30.16	766.1	30.40	772.1	54.0	12.2	79	sse.	9	4.0			10					misty	S. Call.
Bidston, Liverpool Obs'y			30.45	773.4	47.2	8.4	90	se.	21	9.4			9					overcast	John Hartnup.
Bolton, Sharples	29.91	759.7	30.46	773.7	49.5	9.7	89	s.	6	2.7								misty	Thomas Mackereth.
Bradford, Yorkshire	30.09	764.3	30.48	774.2	47.1	8.4	90	se.			1		10			0	0	overcast	McLandsborough & Preston.
Cardington	30.34	770.6	30.46	773.7	50.0	10.0	93	n.			0.5		8					foggy	John McLaren.
Chatham, School M. E.	30.28	769.1	30.46	773.7	53.0	11.7	93	calm			0		10					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.16	766.1	30.39	771.9	55.9	13.3	81	ese.			3		10					overcast	The Staff.
Fort Napier, Natal	27.73	704.3	29.95	760.7	68.0	20.0	70	se.			1		10					overcast	C. Stares, A.H.C.
Freetown, Sierra Leone	29.77	756.1	30.00	762.0	84	28.9	83	n.			6		5					d. clouds	J. W. Smith.
Galway, Queen's College	30.26	768.6	30.30	769.6	54	12.2	87	s.			1		4			0	0	d. clouds	Wm. Ryan.
Gibraltar, Mediterranean	30.00	762.0	30.06	763.5	64.8	18.2	89	e.			4		9					gloomy	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	30.22	767.6	30.42	772.7	53.2	11.8	80	sse.			2							foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.27	768.8	30.44	773.2	53.8	12.1	87	ene.			1		10					overcast	The Staff.
Guernsey	30.03	762.7	30.33	770.4	57.3	14.1	83	e.			1		5					foggy	A. Collenette, F. M. S
Kew, Observatory	30.42	772.7	30.45	773.4	52.3	11.3	86	nne.	5	2.2			10					misty	The Staff.
Leicester, Museum	30.21	767.3	30.47	773.9	52.1	11.2	86	ne.			1		8					overcast	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.11	764.8	69.2	20.7	69	ne.			2		3			0.18	4.6	blue sky	Corpl. Keene, A. H. C.
Nassau, Bahamas	30.01	762.2	30.05	763.3	81.0	27.2	83	s.			2		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.95	760.7	30.17	773.9	48.6	9.2	95	ene.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.23	767.8	30.46	773.7	48.3	9.1	96	ne.			3		10					misty	The Staff.
Plymouth	30.32	770.1	30.39	771.9	54.3	12.4	90	ene.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.21	767.3	30.31	769.9	51	10.6	93						10					misty	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.18	766.6	30.25	768.3	60.2	15.7	82	ne.			2		10					showery	W. H. Lyne.
Sheffield	30.20	767.1	30.48	774.2	50.0	10.0	89	calm			0		10			blank	blank	overcast	W. F. Cooper.
Silloth Rectory	30.41	772.4	30.44	773.2	54.0	12.2	85	se.			1		3			0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.47	773.9	51.9	11.1	79	ne.	5	2.2								misty	Rev. S. J. Perry.
Strathfield Turgiss					53.1	11.7	92	e.			0.5		10					overcast	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.35	770.9	30.42	772.7	58	14.4	88	e.			4		9					gloomy	W. Newcombe.
Valencia, Observatory	30.31	769.9	30.34	770.6	54.9	12.7	92	sse.	26	11.6			10					misty	The Met'g'l Office.
Sub-series.																			
Goro, Episcopal Seminary	29.77	756.1	30.16	766.1	66.9	19.4	70	ne.	0.6	0.3		0	2 k		ne.	0.08	2.0	drizzling	Rev. Ph. Borrelle.
Canadian.																			
Bathurst, N. B	29.00	736.6	29.04	737.6	40.0	4.4		calm	0	0			10 n			0.89	22.6	raining	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.09	738.9	29.14	740.1	52	11.1	97	se.	16	7.2			10 n			0.920	23.4	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.01	736.8	29.07	738.4	39	3.9	100	e.	1	0.4			fg.			0.93	23.6	dense fog	G. A. Blair.
Cornwall, Ontario	29.08	738.6	29.27	743.4	46.6	8.1	92	w.			4	0	9 s			0.208	5.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.00	736.6	29.05	737.9				e.			2		10 s			0.05	1.3	d. clouds	H. A. Johnson.
Edmonton, N. W. T*	27.19	690.6			13	—10.6	62	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	28.95	735.3	28.97	735.8	37	2.8	85	ne.	8	3.6			10 n			0.14	3.6	light rain	J. McWilliams.
Fort Garry, Manitoba*	28.62	726.9	29.47	748.5	33	0.6	96	nw.	13	5.8			10 ks		nw.	0	0	cloudy	James Stewart.
Fredericton, N. B	28.97	735.8	29.03	737.3	40.1	4.5	91	w.	2	0.9			fg.			1.060	26.9	snowing	Prof. Thos. Harrison
Grand Manan, N. B	28.99	736.3	29.04	737.6	55	12.8	90	sw.	27	12.1			fg			1.33	33.8	light rain	J. Chipman Seeley
Granton, Ontario	28.45	722.6	29.54	750.3	44.0	6.7	92	w.	9	4.0			10 n			0.47	11.9	overcast	Jas. Grant.
Halifax, N. S*	29.11	739.4	29.24	742.7	58	14.4	100	s.	20	8.9			10 n		s.	2.700	70.1	heavy rain	A. Allison.
Hamilton, Ontario	29.08	738.6	29.46	748.3	46.9	8.3	87	sw.			3	4 k	0	sw.		0.08	2.0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.07	738.4	29.40	746.7	47	8.3	80	sw.	9	4.0			10 k		W.	0.22	5.6	cloudy	A. P. Knight, M. A
Little Glace Bay, N. S	29.18	741.2	29.20	741.7	55.0	12.8	97	se.			8	0	0			0	0		C. H. Rigby.
London, Ontario	28.67	728.2	29.57	751.1	44.7	7.1	92	w.			2		10 n			0.25	6.3	overcast	E. B. Reed.
Medicine Hat, N. W. T	27.63	701.8	30.03	762.7	23	— 5.0	92	sw	10	4.5		0	0			0.08	2.0	clear	John Ewart.
Minnedosa, N. W. T	27.59	700.8	29.54	750.3	32	0.0	74	nw.	35	15.6			10 s		nw.	0	0	cloudy	Rev. J. M. Wellwood.
Montreal, Quebec*	29.01	736.8	29.21	741.9	47	8.3	83	nw.	22	9.8			10 s			0.47	11.9	cloudy	C. H. McLeod, C. E.
Ottawa, Ontario	29.07	738.1	29.28	743.7	44.1	6.7	84	w.				3 cs	0			0.530	13.5	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	28.67	728.2	29.35	745.5	45	7.2	100	s.	12	5.4			10 n		sw.	1.00	25.4	cloudy	Rev. R. Mosley.
Peterboro, Ontario	28.66	728.0	29.38	746.2	45.7	7.6	75	sw.			1	0	8 k			0.15	3.8	d. clouds	Wm. O'Connor, M.A.
Port Arthur	28.60	726.4	29.31	744.5	38	3.3	100	sw.	5	2.2		5 ck	5 s	W.	W.	0	0	clearing	W. P. Cooke.
Port Dover, Ontario	28.86	733.0	29.55	750.6	46	7.8	100	w.	15	6.7			10 n			0.12	3.0	light rain	G. Morgan
Port Stanley, Ontario	28.93	734.8	29.57	751.1	47	8.3	77	w.	24	10.7		0	5 k		W.	0.05	1.3	fair	M. Payne.
Qu'Appelle, N. W. T	27.51	699.5	29.90	759.4	25	— 3.9	96	nw.	15	6.7		5 ck	0	nw.		0	0	fair	Leslie Gordon.
Quebec, Quebec*	28.93	727.2	28.98	736.1	41	5.0	100	calm	0	0			10 n		sw.	0.84	21.3	light rain	Capt. Asne, R. N.
Rockliffe, Ontario*	28.85	732.8	29.30	744.2	43	6.1	93	nw.	12	5.4			10 s		nw.	1.12	28.4	cloudy	W. H. McIntyre.
St. Andrews, N. B	28.97	735.8	29.02	737.1	52	11.1	93	sw.	5	2.2			fg			0.42	10.7	foggy	
St. John, N. B	29.01	736.8	29.15	740.4	51.0	10.6	100	s.	30	13.4			10 n			0.548	13.9	raining	G. Hutchinson.
Saint John's, N. F	29.91	759.7	30.17	766.3	28	— 2.2	100	ne.			1		10 s			0.05	1.3	cloudy	J. Higgins.
St. Pierre, N. F			29.77	756.0	42.8	6.0		s.			7					1.661	42.2		The Commandant.
Saugeen, Ontario*	28.70	729.0	29.41	747.0	46	7.8	83	w.	36	16.1			10 s			0.79	20.1	light rain	
Stratford, Ontario	28.27	718.0	29.54	750.5	44.0	6.7	92	w.	13.5	6.0			10 s			0.586	14.9	d. clouds	C. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper 0–10	Clouds. Amount and kind. Lower 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill	WEATHER.	OBSERVERS
CANADIAN.—Continued.																			
S. W. Point, Anticosti																1.02	25.9	light rain	Miss Grace Pope.
Sydney, C. B.	29.39	746.5	29.45	748.0	49	9.4	93	se.	20	8.9			10 n						[illegible], C. E.
Toronto, Ontario*	29.12	739.6	29.50	749.3	47	8.3	80	sw.	9	4.0			10 ks		w.	0.13	3.3	cloudy	Magnetic Observatory.
Woodstock, Ontario	28.50	723.9	29.56	750.8	44.5	6.9	90	sw.	22	9.8			10 s			0.16	4.1	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.08	738.6	29.14	740.1	57	13.9	96	sw.	19	8.5		fg	fg			2.13	54.1	heavy rain	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt.House	30.12	765.0	30.15	765.8	63.0	17.2	94	e.	18.9	8.4		0	0?			0	0	cloudy?	I. Garfelt.
Cape Town	29.84	757.9			76.5	24.7	46	ne.				3 ck	0			0	0		
Springbok Fontein	27.86	707.6			75	23.9	52									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	30.01	762.3	30.09	764.3	57.6	14.2	89	ne.			3	10						cloudy	Samuel Redolez.
Iquique	29.99	761.8	30.02	762.5	61.3	16.3	71	sw.			3							cloudy	Rafael Moreno.
Niebla	29.56	750.7	29.66	753.4	46.4	8.0	86	e.			4	0	7		n.			drizzling	Federico Köhling.
Punta Caldera	29.97	761.2	30.06	763.4	58.3	14.6	82	nw.			1	7 c	c	nw.	nw.			cloudy	Manuel Tobar.
Punta Corona	29.88	759.0	30.07	763.8				w.			3	4 k	0	sw.		0.520	13.2		Francisco Alvarado.
Valparaiso	29.87	758.8	29.96	761.0	56.5	13.6	82	s.			1	1	4					clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.44	646.1																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.21	767.3	30.23	767.9	54.1	12.3	53	nw.	21.3	9.5		8 ck		sw.		0.020	0.5	very cloudy	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.49	774.4	30.54	775.6	48.7	9.3	88	se.	11	5			10						Oversergent Fischer.
Fanoe	30.50	774.6	30.52	775.1	48.0	8.9	89	e.			2		3						Overloerer Lauridsen.
Godthaab, Greenland	29.41	747.1	29.46	748.2	15.3	−9.3	87	e.			2		3						S. Kleinschmidt.
Jacobshavn, Greenland	29.67	753.6	29.72	754.8	9.7	−12.4		e.			4		6						
Stykkisholm, Iceland	29.15	740.3	29.19	741.4	44.6	7.0	78	se.			7		10					raining	A. O. Thorlacius.
Thorshavn	30.07	763.7	30.09	764.3	52.2	11.2	97	ssw.	27	12			10						Overloerer Bergh.
Vestervig	30.45	773.4	30.54	775.7	45.9	7.7	89	calm			0		10						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.92	760.0			77.4	25.2		n.	1.6	0.7		2 ck				0	0		Albert Ismaiun.
FRENCH.																			
Agen, Normal School	29.66	753.3	30.30	769.6	65.1	18.4	71	se.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.85	758.2	30.40	772.2	51.8	11	90	e.			1				w.	0	0		M. Nicot, Director.
Avignon, Normal School	30.19	766.8	30.27	768.8	65.5	18.6	62	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.79	756.6	30.35	771.0	48.9	9.4	85	se.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.15	765.8	30.43	772.9	48.6	9.2	84	se.			1		10			0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.40	746.7	30.29	769.3	46.0	7.8	80	ne.			1		10		sw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.98	761.4	30.24	768.0	63.1	17.3	62	e.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.54	750.2	30.09	764.2	57.2	14	78	n.			1				n.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.11	764.8	30.35	771.0	54.3	12.4	93	ne.			1		10			0	0	misty	M. de Kermarée, Dir.
Caen, Normal School	30.25	768.3	30.32	770.2	52.5	11.4	86	s.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'	29.93	760.1	30.25	768.3	46.8	8.2	91	n.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.85	758.1	30.37	771.4	48.6	9.2	76	ese.			1		10			0	0	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.91	734.2	30.25	768.4	62.2	16.8	53	nw.			1		0			0	0		M. Allnard, Director.
Cluny, Normal School	29.51	749.6	30.34	770.7	47.3	8.5	97	e.			1					0.04	1.		M. de Villemontée, Dir.
Commercy, Normal School	29.49	749.1	30.37	771.5	48.2	9	84	e.			1		10			0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.71	703.8	30.22	767.6	60.4	15.8	52	sw.			1		1 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.10	739.1	30.21	767.3	66.6	19.2	49	nw.			1		2		nw.	0	0		M. Kint, Director.
Grenoble, Normal School	29.56	750.7	30.33	770.4	51.1	10.6	82	ese.			1		kn		se.	0	0		M. Ablard, Director.
Guéret, Normal School	28.69	728.8	30.26	768.6	61.2	16.2	49	sse.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	30.06	763.5	30.34	770.5	52.2	11.2	90	se.			2		10		se.	0	0	covered	M. Ollitrault, Director
Lescar, Normal School	29.62	752.4	30.18	766.5	66.2	19.0	73	ne.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.24	768.2	30.35	770.8	53.6	12.0	74	ene.			1					0	0	misty	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.26	743.3	30.35	770.9	48.0	8.9	97	nw.			1		fg			0	0	foggy	M. André, Director
Mans, Normal School	29.88	759.0	30.20	767.0	51.6	10.9	82	e.			4		10			0	0	covered	M. Richard, Director
Marseille, Observatory	29.97	761.2	30.24	768.0	68.9	20.5	47	wsw.			1		1		e.	0	0		M. Stephan, Director.
Montlouis	25.02	635.4	29.86	758.4	59.0	15.0	58	ne.	3.8	1.7			3		nw.	0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.11	764.8	30.22	767.5	67.6	19.8	83	ene.			2		0			0	0	clear	M. Galzin, Director.
Nancy	29.58	751.2	30.37	771.4	47.8	8.8	84	nne.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	30.19	766.7	30.35	770.8	51.6	10.9	96	e.			1		10			0	0	light fog	M. Larocque, Director.
Perpignan, Observatory	30.15	765.9	30.26	768.7	64.8	18.2	63	e.	5.6	2.5			3		e.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			37.4	3.0							5		s.	0	0	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.23	742.5	30.30	769.7	57.6	14.2	73	s.			1		1	n.	n.	0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.41	645.3			48.0	8.9	59	ese.			1		0			0	0		M. Allnard.
Rochefort, Naval Obs'y	30.22	767.6	30.25	768.4	62.6	17.0	76	ne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.04	763.0	30.26	768.6	55.4	13	93	ne.			1		1		nne.	0	0	clear	M. Brouler, Director.
Rodez, Normal School	28.03	712.0	30.16	766.0	61.3	16.3	66	w.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.36	771.2	30.41	772.4	51.4	10.8	82	ene.			1		10		ne.	0	0	covered	M. Moulliot, Dir.
St Lô	30.18	766.6	30.33	770.3	50.9	10.5	78	n.			1		10		h.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.27	768.9	30.40	772.1	45.7	7.6	87	e.			1		10			0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.54	750.2	30.26	768.7	66.6	19.2	59	sse.			2		1	w.		0	0	clear	M. Baillard, Director.
Tours	30.17	766.2	30.34	770.7	51.8	11.0	82	nne.			1		10			0	0	misty	M. de Tastes.
Versailles, Observatory	29.89	759.3	30.39	771.8	44.2	6.8	94	e.			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.10	764.4	30.24	768.2	58.5	14.7	93	n.	5.8	2.6			10			0	0	foggy	M. Cartier, Director.
GERMAN.																			
Ansbach	28.92	734.6	30.41	772.5	46.4	8.0	85	se.			2		10	se.		0	0		Prof. Jnedt.
Bamberg	29.51	749.6	30.37	771.3	54.7	12.6	75	calm			0		4 k		e.	0	0		Prof. Dr. Hoh.
Berlin	30.32	770.2	30.47	773.9	56.1	13.4	70	se.			1		0			0	0		Dr. Lensch.
Breslau	29.98	761.5	30.52	775.2	50.2	10.1	79	se.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.92	760.0	30.39	772.0	49.1	9.5	72	ne			2		10		ne.	0	0		Albert Senz.
Cassel	29.66	753.4	30.37	771.5	52.5	11.4	89	e.			1		10			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.01	762.3	30.39	771.8	53.1	11.7	78	calm			0		10			0	0		Physical Society.
Friedrichshafen	28.92	734.5	30.37	771.4	47.5	8.6	84	ne.			2		10	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.39	771.9	30.48	774.2	48.4	9.1	93	ese.			3		10			0	0		E. Freiter.
Kiel	30.47	773.9	30.48	774.3	51.8	11.0	88	ne.			2		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	30.01	762.2	30.44	773.1	49.3	9.6	91	nne.			1		10			0	0		H. Leppig, Asst.
Magdeburg	30.25	768.3	30.45	773.3	50.2	10.1	89	ene.			1		10			0.012	0.3		Weather Observatory.
Memel	30.65	778.5	30.70	779.7	44.6	7.0	78	s.			3	2 c							Issermann.
Munich	28.50	723.9	30.39	771.8	41.9	5.5	90	ne.			1		10			0	0		Central Station.
Neufahrwasser	30.64	778.2	30.65	778.6	43.5	6.4	91	se.			1		5			0	0		A. Lothes.
Neustadt, Palatinate	29.83	757.7	30.37	771.2	48.7	9.3	80	nw.			1		10			0	0		Dicknether.
Stuttgart	29.41	747.0	30.33	770.3	46.9	8.3	82	e.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	30.48	774.3	30.51	774.9	54.1	12.3	74	e.			2		3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.76	756.0	30.15	765.7	63.3	17.4		ne.			5.0		4 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.81	757.2	29.86	758.4	86.2	30.1	45	sw.	23.0	10.3			0			0	0	blue sky	
Deesa	29.42	747.2	29.89	759.1	84.9	29.4	16	n.	7.0	3.1			0			0	0	blue sky	
Bombay	29.80	756.9	29.84	757.8	82.5	28.1	61	nnw.	16.0	7.2			0			0	0	blue sky	
Poona, Yarrowda	28.01	711.4	29.86	758.3	80.8	27.1	39	ne.	14.0	6.3			1			0	0	d. clouds	
Trichinopoly	29.51	749.5	29.78	756.5	87.5	30.8	51	wnw.	0.1	0.04			10			0	0	overcast	
Bellary	28.31	719.1	29.78	756.3	80.0	26.7	61	e.	6.0	2.7			10			0	0	gloomy	
Belgaum	27.29	693.2	29.83	757.6	76.5	24.7	58	n.	5.0	2.2			3	e.	n.	0	0	d. clouds	
Lahore	29.15	740.3	29.90	759.5	74.0	23.3	51	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
INDIAN.—Continued.																			
Roorkee	28.99	736.2	29.90	759.4	73.8	23.2	47	calm	0	0			0			0	0	blue sky	
Agra	29.32	744.8	29.89	759.2	81.2	27.3	24	calm	0	0			0			0	0	blue sky	
Nagpur	28.82	732.1	29.87	758.8	77.7	25.4	41	calm	2.0	0.9			9		sw.	0	0	gloomy	
Jubbulpore	28.56	725.3	29.92	760.0	76.6	24.8	38	ne.	6.0	2.7			1		ne.	0	0	blue sky	
Lucknow	29.55	750.5	29.93	760.2	76.2	24.6	44	calm	0	0			0			0	0	blue sky	
Allahabad	29.60	751.7	29.91	759.8	73.8	23.2	55	calm	0	0			0			0	0	blue sky	
Patna	29.73	755.1	29.92	759.9	77.5	25.3	55	calm	1.4	0.6			10			0	0	overcast	
Hazaribagh	27.91	708.8	29.95	760.7	71.6	22.0	63	s.	2.7	1.2			10		s.	n.	0	0	overcast	
Cuttack	29.82	757.3	29.90	759.4	78.9	26.1	85	nne.	1.0	0.4			8				0.11	2.8	drizzling
Calcutta, Alipore	29.87	758.7	29.89	759.3	80.2	26.8	60	nnw.	3.5	1.6			8				0	0	d. clouds
Dhubri	29.81	757.1	29.93	760.2	75.5	24.2	84	ene.	3.0	1.3			9		wsw.		0	0	d. clouds
Chittagong	29.82	757.3	29.91	759.6	78.5	25.8	76	calm	1.0	0.4			0				0	0	blue sky
Sibsagar	29.62	752.3	29.96	761.0	75.0	23.9	77	ne.	2.0	0.9			0				0	0	blue sky
Jeypore	28.48	723.5	29.94	760.4	77.9	25.5	27	calm	3.6	1.6			0				0	0	blue sky
Zanzibar	29.91	759.7			84.7	29.3	63	ese.	3.7	1.7			4			ese.	0	0	d. clouds
ITALIAN.																			
Udine	29.90	759.5	30.31	769.9	66.2	19.0	40	e.	6.9	3.1			3				0	0	Prof. Giovanni Clodig.
Milan	29.82	757.5	30.34	770.6	61.3	16.3	62	se.	2.5	1.1			7		ene.		0	0	Prof. G.V.Schiapparelli
Padua	30.19	766.8	30.30	769.6	64.8	18.2	54	e.	9.4	4.2			3		e.		0	0	Prof. Dott. Lorenzoni.
Moncalieri	29.41	747.1	30.32	770.1	59.0	15.0	69	ne.	1.8	0.8			8				0	0	Prof. F. F. Denza.
Genoa	30.06	763.5	30.25	768.4	66.9	19.4	39	n.	4.9	2.2			0				0	0	Prof. G. M. Garibaldi.
Mondovi	28.40	721.4	30.32	770.2	58.8	14.9	63	w.			4		9				0	0	Prof. D. C. Bruno.
Pesaro	30.23	767.8	30.28	769.0	60.8	16.0	73	nw.	9.4	4.2			8				0	0	Prof. Luigi Guidi.
Florence	29.97	761.1	30.22	767.6	67.1	19.5	50	ne.			4		1				0	0	Prof. Costantino Pittei
Leghorn	30.08	763.9	30.16	766.1	68.5	20.3	46	ne.	7.4	3.3			3				0	0	Prof. P. Monte.
Rome	30.00	762.1	30.18	766.5	67.6	19.8	51	w.	0.7	0.3			2				0.016	0.4	Prof. P. Tacchini.
Lecce	29.91	759.6	30.16	766.0	67.8	19.9	65	nne.	6.3	2.8			2				0	0	Prof. C. de Giorgi.
Cosenza	29.29	743.9	30.18	766.5	61.2	16.2	64	wsw.	1.8	0.8			9		sw.		0	0	Prof. D. Conti.
Cagliari	29.94	760.5	30.13	765.3	66.9	19.4	47	w.			2		0				0	0	Prof. A. Pacinotti.
Palermo	29.90	759.5	30.15	765.8	66.6	19.2	71	nne.	3.1	1.4			2				0	0	Prof. G. Cacciatore.
Syracuse	30.06	763.4	30.10	764.5	66.6	19.2	71	nne.	8.1	3.6			6		nne.		0.138	3.5	Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.65	753.2	30.18	766.5	64.0	17.8	72	nne.	1.3	0.6			7		w.		0	0	Prof. F. Brioschi.
JAPANESE.																			
Akita	30.08	763.9	30.11	764.8	55.9	13.3	95	e.			6	0	0				0.043	1.1	clear
Awomori	30.11	764.8	30.15	765.8	50.3	13.5	60	e.	20.1	9.0		0	1 s				0	0	clear
Hamamatsu	30.00	762.0	30.10	764.5	60.4	15.8	76	e.			2		10 s				0.496	12.6	overcast
Kagoshima	29.94	760.4	29.95	760.7	70.4	21.3	95	sw.			2		10 n				0.902	22.9	light rain
Kanazawa	29.81	757.2	29.92	759.8	59.2	15.1	91	e.	3.9	1.7			10s;ks				0.096	2.4	cloudy
Kioto	29.83	757.8	30.01	762.2	66.7	19.3	67	e.	2.0	0.9			10 s				0.589	15.0	cloudy
Kochi	29.95	760.8	29.97	761.3	65.0	18.3	96	w.	15.1	6.7			10 n				5.43	137.9	raining
Miasaka	29.91	759.6	29.93	760.3	72.1	22.3	82	ssw.			2		10 s		sw.		0.126	3.2	covered
Miyako	30.18	766.6	30.29	769.4	56.5	13.6	66	e.	5.6	2.5			10 s				0.343	8.7	cloudy
Nagasaki, I. M. Obs'y	29.70	754.4	29.90	759.4	70.1	21.2	84	nw.	3.6	1.6			10 s				0.900	22.9	
Niigata	29.99	761.7	30.02	762.5	60.6	15.9	68	se.	20.8	9.3		0	1s;ks		w.		0.010	0.2	clear
Nobiru	30.18	766.7	30.20	767.1	59.3	15.2	83	e.	16.2	7.2			10 ks				0.110	2.8	covered
Numazu	30.12	765.0	30.15	765.9	58.1	14.5	70	e.			2	7 c	c				0.606	15.4	fair
Osaka	29.98	761.4	29.99	761.9	63.8	17.7	79	nne.	6.4	2.9			10 s				0.330	8.4	cloudy
Sakai	29.86	758.4	29.87	758.6	64.5	18.1	87	sse.			2		10 n		wnw.		0.492	12.5	raining
Shimonoseki	29.76	755.8	29.90	759.5	66.6	19.2	98	ne.			2		10 ks				1.441	36.6	cloudy
Tokei Obs'y, Yeddo	30.09	764.4	30.17	766.3	57.6	14.2	86	nnw.	8.2	3.7			10 s				0.075	1.9	cloudy
Wakayama	29.90	759.4	29.95	760.7	66.0	18.9	83	se;sse.	3.4	1.5			10 ck				0.858	21.8	cloudy
MAURITIUS.																			
Mauritius Observatory	29.91	759.7	30.10	764.5	76.0	24.4	70	ene.	16.5	7.4		0	6ks;kn		e.		0.82	20.8	fair
MEXICAN.																			
Leon	24.37	619.0	30.08	764.0	54.1	12.3	84	nnw.	0.9	0.4		7 c	2 s				0	0	cloudy
Mazatlan	29.65	753.2	29.91	759.7	76.0	24.4	84	nne.	0.9	0.4			10 c;n		sse.		inap.	inap.	covered
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.44	773.1	30.44	773.1	52.0	11.1		ene.			4						0.008	0.2	
Groningen	30.37	772.0	30.45	773.4	50.0	10.0		ene.			1						0	0	
Helder	30.45	773.3	30.45	773.3	51.4	10.8		ene.			1						0	0	
Hellevoetsluis	30.43	773.0	30.43	773.0	51.8	11.0	87	calm			0						0	0	
Utrecht	30.39	771.8	30.43	773.0	52.2	11.2	87	e.			2		10				0	0	dull
Sub-series.																			
Batavia, Java	29.86	758.5			81.0	27.2	82	ne.	0	0			5				0	0	Lt.J.J. Rodtman, R.D.N.
NORWEGIAN.																			
Bergen	30.47	774.0	30.54	775.6	47.5	8.6	81	sse.	9	4			5				0	0	
Brono	30.28	769.1	30.32	770.1	47.3	8.5	88	wsw.			4–6		10				0.213	5.4	
Christiania	30.41	772.4	30.56	776.3	38.3	3.5	93	nnw.	2	1			10				0.004	0.1	light fog
Gjæsvær	29.69	754.2	29.72	754.8	42.8	6.0		w.			7		10						
Lodingen	30.00	762.1	30.05	763.3	42.8	6.0	79	wsw.			6		10				0.492	12.5	raining
PORTUGUESE.																			
Angra, Azores					67.5	19.7	91	wsw.	5.6	2.5			5				0	0	Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo.
Funchal, Madeira	29.95	760.8	30.04	763.0	70.2	21.2	64	sw.	6.3	2.8			6				0	0	Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.6	30.08	764.0	67.1	19.5	72	ene.	9.8	4.4			3				0	0	The Staff.
Ponta Delgada, Azores	30.11	764.7	30.18	766.5	71.6	22.0	64	ssw.	8.1	3.6			4				0	0	
Saint Paul de Loando	29.69	754.1	29.89	759.2	78.4	25.8	93	wnw.	1.3	0.6			3				0	0	
San Salvador, Congo	28.02	711.6	29.80	757.0	89.8	32.1	40	calm			0		7				0	0	
Serra da Estrella	25.41	645.3	30.15	765.8	49.1	9.5	94	e.	20.6	9.2			9				0.039	1.0	
RUSSIAN.																			
Akmolinski	28.55	725.2	29.65	753.0	38.7	3.7	72	wsw.	16	7			9 n				0.035	0.9	Major K. Lasarew.
Archangel	30.10	764.4	30.11	764.9	30.9	0.6	96	sw.	4	2			10				0.079	2.0	Capt. Sselliwerstow
Ashurada	30.16	766.1	30.07	763.7	65.3	18.5	70	nw.	9	4		3 ck	0				0.039	1.0	
Astrakhan	30.33	770.3	30.25	768.4	43.0	6.1	45	n.	18	8			10 s;n				0	0	Capt. Wisganow.
Baku	30.15	765.8	30.10	764.6	60.4	15.8	64	n.	34	14		2 cs	0				0.031	0.8	
Barnaul	29.38	746.2	29.89	759.1	41.7	5.4	52	sw.	22	10			9				0	0	Meteorological Obs'y
Bielosersk	29.91	759.7	30.40	772.1	36.0	2.2	74	w.	7	3		7 cs	0				0.004	0.1	
Dorpat	30.36	771.2	30.62	777.7	39.2	4.0	93	sw.	7	3		10 c	0				0	0	Observatory.
Ekaterinburg	28.80	731.4	29.81	757.1	22.1	— 5.5	83	w.	9	4			10						snow-drift
Elissawetgrad	30.20	767.1	30.67	778.9	48.0	8.9	48	ne.	9	4		0	0				0	0	Meteorological Obs'y.
Irkutsk	28.60	726.5	30.33	770.4	28.6	— 1.9	70	s.			2		3				0	0	
Kasalinsk																			
Kasan	29.93	760.1	30.21	767.3	32.4	0.2	60	wnw.	7	3			10				0	0	Observatory.
Kem	29.94	760.5	29.99	761.8	30.2	— 1.0	96	sw.	13	6			10 n				0.209	5.3	
Kertch	30.04?	763.1?	30.07?	763.7?	47.1	8.4	60	n.	11	5		0	5 k				0	0	Lagorio & Sastyrea.
Kieff	30.03	762.8	30.70	779.7	44.1	6.7	56	ne.	7	3		0	5 ks				0	0	Observatory.
Koslov	30.00	761.9	30.52	775.3	37.6	3.1	68	nw.	9	4		0	0				0	0	
Libau	30.65	778.6	30.68	779.2	46.6	8.1	77	ssw.	9	4			2				0	0	E. Quaas.
Lugan	30.29	769.3	30.50	774.7	44.6	7.0	44	nne.	22	10			8				0	0	Meteorological Obs'y.
Moscow	30.09	764.3	30.60	777.2	33.4	0.8	73	n.	3.4	1.5			10 n				0.012	0.3	Meteorological Obs'y
Nikolaiev	30.54	775.8	30.61	777.6	51.1	10.6	56	ne.	22	10		0	0				0	0	Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Russian.—Continued.																			
Nikolaiewsk-on-the-Amoor	30.30	769.6	30.39	771.8	28.4	— 2.0	78	calm	0	0			9 k						Iwanow.
Pekin, China	29.93	760.1	30.07	763.7	39.2	4.0	36	nw.	10.1	4.5		0	1 k			0	0		Physical Observatory.
Petro-Alexandrovsk	29.74	755.6	30.10	764.5	57.6	14.2	43	calm	0	0		3 ck	0			0	0		
Petrozavodsk	30.07	763.7	30.27	768.9	34.9	1.6	75	sw.	22	10		0	8 ks			0	0		Dr. Bergmann.
Pinsk	30.21	767.3	30.72	780.4	48.7	9.3	96	ese.	13	6		0	0			0	0		
Poti	30.13	765.3	30.16	766.1	66.9	19.4	89	w.	9	4			10 n			0	0		
St. Petersburg	30.44	773.1	30.46	773.7	42.3	5.7	79	wsw.	9	4			10 n			0	0		Central Physical Obs'y.
Samarkand	27.68	703.1	30.17	766.2	53.4	11.9	42	calm	0	0		0	0			0	0		
Semipalatinsk	29.35	745.6	30.03	762.7	41.0	5.1	54	sse.	9	4			5			0	0		Major Lasarew
Sevastopol	30.20	767.1	30.42	772.6	55.4	13.0	47	ne.	40	18		0	1 s			0	0		
Staroi Bykhov	30.15	765.8	30.73	780.5	45.5	7.5	62	ne.	2	1		0	1 k			0	0	light clouds	
Tashkend Laboratory	28.45	722.7	30.10	764.6	63.0	17.2	30	calm	0	0		0	0			0	0		Terch, A. M
Tiflis	28.57	728.1	30.06	763.6	66.0	18.9	40	nw.	38	17		0	1 k			0	0		Physical Observatory.
Vernoe	27.52	699.2	30.05	763.3	48.4	9.1	42	calm	0	0		0	0			0	0		
Viatka	29.44	747.7	30.10	764.5	28.0	— 2.2	94	wnw.	4	2			7						
Warsaw	30.19	766.9	30.63	778.0	48.9	9.4	60	e.	11	5		1 cs	0			0	0		Astronomical Obs'y.
Yeniseisk	29.56	750.9	29.86	758.4	34.9	1.6	82	w.	4	2			10			0.012	0.3	raining	M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	30.10	764.5	30.21	767.2	66.9	19.4	73	e.	6.9	3.1		0	5			0.118	3.0		Antonio Molins.
Bilbao, Met. Obs'y	30.17	766.4	30.23	767.9	70.5	21.4	69	nw.	1.3	0.6		1	2	w.		0	0	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.25	692.2	30.19	766.8	61.2	16.2	73	n.	6.3	2.8		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.96	710.1	30.17	766.2	63.3	17.4	78	ne.	8.1	3.6		0	8			0	0	almost covd.	The Staff.
Murcia, Met. Obs'y	30.01	762.3	30.15	765.7	66.7	19.3	81	ene.	3.6	1.6		4	6	wsw.		0	0	covered	Olayo Diaz, Director.
Oviedo	29.43	747.5	30.19	766.8	57.2	14.0	90	s.	4.7	2.1			10 n		w.	0	0	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.21	742.0	30.09	764.2	67.5	19.7	70	ne.	6.3	2.8		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.89	759.3	29.96	760.9	78.4	25.8	88	sse.	2.2	1.0		3cs;ck	4 sk	s;sse.		0.03	0.7	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.3	29.95	760.7	79.3	26.3	90	e.	2.2	1.0		0	3 kn			1.358	34.5	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.2	30.03	762.7	69.6	20.9	66	se.	17.8	8.0			10		s.	0	0		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.92	759.9	30.01	762.2	79.5	26.4	83	se.	4.3	1.9		2 k	3 kn	ne.	se.	0.177	4.5	d. clouds	Enrique Gadea, Chf Eng
Swedish.																			
Haparanda	30.10	764.6	30.14	765.6	39.2	4.0	87	w.			2		0			0.370	9.4		
Umea	30.28	769.0	30.33	770.3	41.4	5.2	78	nw.			2		10			0	0		
Hernosand	30.43	772.9	30.48	774.2	40.3	4.6	87	calm			0		10			0	0		
Stockholm	30.39	771.9	30.57	776.4	36.3	2.4	96	sw.			4		10			0	0		
Wisby	30.51	775.0	30.57	776.5	46.0	7.8	75	w.			4		7			0	0		
Sub-series.																			
Upsala	30.46	773.6	30.54	775.8	35.8	2.1	98	wsw.	11.0	4.9			10			inap.	inap.		H.H.Hildebrandesson
Swiss.																			
Geneva	28.91	734.2	30.35	770.9	47.7	8.7	83	nnw.			1		10			0	0	foggy	The Observatory.
Turkish.																			
Constantinople			30.31	769.8	60.4	15.8	80	n.	22	10.0			10		ne.	0	0		The Observatory.
Valona			30.27?	768.8?	73.8	23.2		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.02	762.6	77.0	25.0	64	sw.			2		7 n		sw.	0.059	1.5		F. Nimr, B. A., Dir
Samokov, Bulgaria	26.09	662 7			45	7.2	84	calm			0		10 n		se.	0	0	cloudy	Fred L. Kingsbury.
United States.																			
Albany, New York	29.37	746.0	29.45	748.0	55.5	13.1	66	sw.	4	1.8		c	9 s		w.	0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	28.77	730.7	29.44	747.8	43	6.1	83	w.	10	4.5		0	8 s		w.	0.07	1.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	30.01	762.2	24.0	— 4.4	67	e.	4	1.8		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.14	689.3	30.06	763.5	28	— 2.2	67	sw.	8	3.6		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.90	734.0	30.09	764.3	54.0	12.2	74	nw.	9	4.0		0	0			0.02	0.5	clear	Edward A. Beals.
Atlantic City, New Jersey	29.64	752.8	29.65	753.1	57.8	14.3	70	w.	13	5.8		0	0			0.49	12.4	clear	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	58.5	14.7	81	calm	0	0		2 c	0	sw.		0.09	2.3	clear	Louis Duane.
Baltimore, Maryland	29.72	754.9	29.77	756.1	57	13.9	69	w.	7	3.1		0	0			0.25	6.3	clear	Geo. W. Felger.
Barnegat City, New Jersey	29.62	752.3	29.64	752.8	58.5	14.7	75	w.	21	9.4		0	0			0.97	24.6	clear	G. A. Hill.
Bennett, Fort, Dakota	28.30	718.8	29.92	760.0	38.0	3.3	82	sw	1	0.4		hz.	4 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.29	693.2	30.20	767.1	35	1.7	56	s.	6	2.7		0	6 s			0	0	fair	Thomas Morgan.
Bismarck, Dakota	27.99	710.9	29.87	758 7	32	0.0	88	nw.	9	4.0		0	0			0.02	0.5	clear	B. O. Lenoir.
Block Island, Rhode Island	29.40	746.7	29.43	747.5	57.0	13.9	77	w.	33	14.8		0	0			1.48	37.6	clear	J. T. Elker.
Boise City, Idaho	27.34	694.4	30.20	767.1	38	3.3	92	w.	1	0.4			10 s			0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.11	739.4	29.27	743.4	57.5	14.2	64	w.	32	14.3		0	0			1.08	27.4	clear	O. B. Gole.
Brownsville, Texas	30.04	763.0	30.10	764.5	57.6	14.2	57	n.	4	1.8		0	0			inap.	inap.	clear	John McGlone.
Buffalo, New York	28.77	730.7	29.53	750.0	50.8	10.4	78	w.	20	8.9			10 s		w.	0.72	18.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.81	706.4	29.91	759.7	26	— 3.3	76	w.	11	4.9		0	2 s			0	0	clear	A. Schneider.
Cairo, Illinois	29.65	753.1	30.05	763.3	48.2	9.0	76	sw.	6	2.7		0	0			0.08	2.0	clear	W. H. Ray.
Canby, Fort, Washington Ter	30.11	764.8	30.31	769.9	44.6	7.0	98	e.	10	4.5		0	0			0.07	1.8	clear	O. D. Stewart.
Cape Henry, Virginia	29.82	757 4	29.84	757.9	60.0	15.6	65	w.	16	7.2		0	0			0.56	14.2	clear	A. K. Alderson.
Cape May, New Jersey	29.66	753.4	29.69	754.1	59.0	15.0	70	w.	40	17.9		0	0			0.50	12.7	clear	Wm. Bolton.
Cape Mendocino, California	29.49	749.0	30.18	766.6	49	9.4	82	n.	20	8.9		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	72.0	22.2	97	n.	20	8.9		0	8 s		n.	0 06	1.5	cloudy	G. W. Davis.
Charleston, S. Carolina	29.93	760 2	29.99	761.7	64.0	17.8	90	w.	6	2.7		8 ck	0			0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	30.01	762.2	56.0	13.3	69	nw.	2	0.9		0	fg			0.24	6.1	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743 2	30.09	764.3	51.0	10.6	80	nw.	5	2.2		0	0			1.33	33.8	clear	B. L. Goulding.
Cheyenne, Wyoming	23.89	606.8	29.91	759.7	40.2	4.6	37	nw.	22	9.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.05	737.9	29.76	755.9	44.5	6.9	74	sw.	12	5.4		0	0			0.06	1.5	clear	Wm. Norrington.
Chincoteague, Virginia	29.75	755.6	29.77	756.1	61	16.1	65	nw.	17	7.6		0	0			0.49	12 4	clear	O. F. Dickens.
Cincinnati, Ohio	29.26	743.2	29.92	760.0	53.7	12.1	71	sw.	7	3.1		1 cs	0			0.76	19.3	clear	L. Dunne.
Cleveland, Ohio	28.98	736.1	29.72	754.9	48.8	9.3	63	w.	20	8.9		0	1 k		w.	0.07	1.8	clear	J. B. Newlin.
Columbus, Ohio	28.98	735.1	29.84	757.9	49	9.4	77	sw.	12	5.4		0	0			1.55	39.4	clear	D. Cuthbertson.
Concho, Fort, Texas	28.16	715.3	30.11	764.8	40.0	4.4	82	calm	0	0		0	0			0	0	clear	C. E. King.
Custer, Fort, M. T	26.88	682.7	30.12	765.0	33	0.6	81	nw.	2	0.9		0	6 s		nw.	0.02	0.5	fair	T. Gibson.
Davenport, Iowa	29.16	740.7	29.82	757.4	48	8.9	63	w.	13	5.8		9 cs	0	w.		0.01	0.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	30.15	765 8	39.7	4.3	34	se.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.51	724.1	30.30	769.6	34.0	1.1	94	calm	0	0		0	0			inap.	inap.	clear	D. Moore.
Deadwood, Dakota	25.24	641.1	29 92	760.0	35.1	1.7	92	e.	1	0.4		hz.	0			0	0	clear	F. Des Willson.
Delaware Breakwater, Del.	29.68	753.9	29.70	754.4	60	15.6	54	nw.	25	11.2		0	0			0.53	13.5	clear	F. W. Mixer.
Denver, Colorado	24.67	626.0	29.93	760.2	51.2	10.7	29	w.	7	3.1		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.92	760.0	49	9.4	50	nw.	6	2.7			10 s		nw.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	28.95	735.3	29.66	753.4	48.1	8.9	77	w.	12	5.4		0	0			0.26	6.6	clear	E. R. Brace.
Dodge City, Kansas	27.28	692.9	29.91	759.7	36	2.2	72	w.	5	2.2		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.06	738.1	29.78	756.4	45.3	7.4	50	w.	8	3.6		3 ck	4 s	nw.	w.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	28.77	730.7	29.53	750 0	39	3.9	73	w.	16	7.2		0	3 s		w.	0.07	1.8	clear	N. B. Conger.
Eastport, Maine	28.95	735.3	29.02	737.1	53.0	11.7	100	s.	6	2.7			fg.		s.	2.09	53.1	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	29.95	760.7	47	8.3	48	calm	0	0		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.40	670.5	30.14	765.5	32.1	0.1	71	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	28.89	733.8	29.62	752.3	52	11.1	66	w.	36	16.1		0	8 k		w.	0.70	17.8	clearing	C. A. Shaw.
Escanaba, Michigan	28.77	730.7	29.44	747 8	39.0	3.9	82	w.	9	4.0		hz.	4 s		w.	0.09	2.3	dense haze.	George Heathcote.
Galveston, Texas	30.07	763.8	30.11	764.8	65.4	18.6	63	e.	7	3.1		0	hz.			0	0	clear	E. O'C. Macinerney
Grand Haven, Michigan	28.94	735.1	29.61	752.1	49 0	9.4	71	w.	32	14.3		0	1 k		sw.	0.39	9.9	clear	Wm. H. Fallon.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.27	641.8	29.97	761.2	41.8	5.4	38	ne.	4	1.8		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	29.90	759.4	29.91	759.7	64.0	17.8	84	nw.	16	7.2		hz.	3 k		nw.	0.78	19.8	clear	R. M. Crawford.
Helena, Montana	25.86	656.8	30.16	766.1	33	0.6	81	sw.	9	4.0		0	0 ks		w.	blank	blank	fair	I. H. Jones.
Huron, Dakota	28.48	723.4	29.91	759.7	35.2	1.8	68	w.	10	4.5			9 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.09	738.9	29.89	759.2	48.0	8.9	71	w.	3	1.3		0	0			0.10	2.5	clear	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.13	765.3	64.2	17.9	70	ne.	12	5.4		4cs;hz	0			0	0	fair	I. A. Reed.
Jacksonville Florida	29.99	761.7	30.03	762.7	71.8	22.1	94	n.	10	4.5			10 s			0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.24	742.7	29.91	759.7	47.0	8.3	74	w.	5	2.2		4 k	0	w.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.93	760.2	29.95	760.7	80	26.7	88	se.	10	4.5			10 ks		se.	0.22	5.6	cloudy	A. W. Browne.
Kittyhawk, North Carolina	29.88	758.9	29.90	759.4	62	16.7	60	nw.	15	6.7		0	0			0.24	6.1	clear	Wesley Blake.
Knoxville, Tennessee	29.05	737.9	30.09	764.3	47.4	8.6	94	sw.	2	0.9		0	fg.			1.16	29.5	clear	J. A. Cody.
La Crosse, Wisconsin	28.92	734.6	29.71	754.6	42	5.6	65	w.	12	5.4		0	4 s		w.	0.04	1.0	fair	S. C. Emery.
Leavenworth, Kansas	29.06	738.1	29.96	761.0	42	5.6	82	n.	1	0.4		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.38	746.2	30.23	767.8	46.0	7.8	48	nw.	11	4.9		0	0			0.24	6.1	clear	C. E. Butler.
Little Rock, Arkansas	29.74	755.4	30.06	763.5	48.0	8.9	77	w.	2	0.9		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	30.00	762.0	57.5	14.2	50	ne.	8	3.6		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.40	746.7	29.97	761.2	52.0	11.1	72	sw.	10	4.5		0	0			0.87	22.1	clear	L. M. Dey.
Lynchburg, Virginia	29.17	740.9	29.86	758.4	57.0	13.9	51	w.	4	1.8		1 k	0	w.		0.54	13.7	clear	Jno. Healy.
Mackinaw City, Michigan	28.75	730.2	29.42	747.3	44.8	7.1	76	w.	22	9.8		0	8 ks		w.	0.19	4.8	cloudy	D. B. Notson.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	63.0	17.2	73	nw.	16	7.2		6 cs	1 s	w		0.30	7.6	fair	William Daly.
Maginnis, Fort, Montana	25.55	649.0	30.09	764.3	28	— 2.2	59	w.	21	9.4		0	0			0.05	1.3	clear	F. Burke.
Marquette, Michigan	28.66	728.0	29.40	746.7	42.0	5.6	73	w	12	5.4		0	4 k		w.	0.08	2.0	fair	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.06	763.5	52	11.1	86	sw.	4	1.8		0	0			0.01	0.3	clear	D. T. Flannery.
Milwaukee, Wisconsin	28.93	734.8	29.69	754.1	43.0	6.1	68	w.	19	8.5		0	0			0.14	3.6	clear	W. Lin-
Mobile, Alabama	30.06	763.5	30.10	764.5	55.4	13.0	81	n	6	2.7		0	0			0.61	15.5	clear	H. U. Jones.
Montgomery, Alabama	29.88	758.9	30.10	764.5	54	12.2	86	nw.	1	0.4		0	fg.			0.12	3.0	clear	Geo. E. Franklin.
Moorhead, Minnesota	28.69	728.7	29.71	754.6	30.2	— 1.0	88	w.	18	8.0		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	22.95	582.9	29.29	744.0	32.0	0.0	100	w	72	32.2			fg;ion		w.	1.79	45.5	sleeting	S. W. Beall.
Nashville, Tennessee	29.48	748.8	30.06	763.5	49.0	9.4	86	w	4	1.8		0	0			0.11	2.8	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.36	745.7	29.48	748.8	56.2	13.4	62	w.	11	4.9		0	0			1.07	27.2	clear	J. H. Sherman.
New London, Connecticut	29.45	748.0	29.50	749.3	57	13.9	64	w.	12	5.4		0	0			1.42	10.7	clear	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	64.5	18.1	58	ne.	8	3.6		0	0			0.29	7.4	clear	M. Herman.
New York, New York	29.39	746.5	29.57	751.1	56.0	13.3	69	sw.	10	4.5		0	0			0.58	14.7	clear	H. J. Penrod.
Norfolk, Virginia	29.84	757.9	29.86	758.4	62.0	16.7	87	w.	10	4.5		0	0			0.48	12.2	clear	Wm. Davis.
North Platte, Nebraska	27.02	686.3	29.98	761.5	36.6	2.6	84	sw.	6	2.7		0	4 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.25	768.3	30.29	769.4	39.0	3.9	89	s.	2	0.9		0	0			0.16	4.1	clear	J. Dascomb.
Omaha, Nebraska	28.77	730.7	29.97	761.2	47.0	8.3	67	w.	3	1.3			10 s			0	0	cloudy	A. Pollak
Oswego, New York	29.13	739.9	29.46	748.3	49.0	9.4	86	w.	14	6.3			10 n		w.	0.48	12.2	light rain	J. G. Linsley
Palestine, Texas	29.58	751.3	30.14	765.5	53.5	11.9	66	s.	4	1.8		3 cs	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	57.2	14.0	64	n.	6	2.7		1 cs	0			0.16	4.1	clear	M. McGauran.
Philadelphia, Pa.	29.56	750.8	29.66	753.4	57.5	14.2	72	sw.	14	6.3		0	0			0.55	14.0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.66	448.6	29.94	760.5	10	—12.2	73	w.	43	19.2		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	28.94	735.1	29.76	755.9	51.5	10.8	80	w.	12	5.4		0	7 s		w.	0.27	6.9	fair	G. O. Schaeffer.
Poplar River					25	— 3.9	40	w.			1	2 cs	0			0	0	clear	
Port Huron, Michigan	28.89	733.8	29.58	751.3	45.2	7.3	83	w.	15	6.7		0	0			0.92	23.4	clear	M. H. Perry
Portland, Maine	29.05	737.9	29.10	739.1	56.0	13.3	80	w	3	1.3		4 k	2 s	nw.	w.	1.24	31.5	fair	W. W. Eichelberger.
Portland, Oregon	30.27	768.8	30.34	770.6	41.0	5.0	100	w.	2	0.9			fg.			0.05	1.3	dense fog	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.84	630.9	30.00	762.0	26.0	— 3.3	70	s.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	29.27	743.4	29.30	744.2	56.5	13.6	74	w.	12	5.4		0	0			1.47	37.3	clear	C. N. Kitchel.
Red Bluff, California	29.79	756.7	30.15	765.8	51	10.6	72	n.	8	3.6		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.97	761.2	30.21	767.3	50.3	10.2	74	calm	0	0		0	0			0	0	clear	Fred. Belford.
Rochester, N. Y.	28.86	733.0	29.53	750.0	47	8.3	86	w.	20	8.9		7 k	hz.	w.		0.55	14.0	fair	E. W. McCann.
Roseburg, Oregon	29.77	756.1	30.33	770.4	47	8.3	93	se.	1	0.4		0	8 s		sw.	0.02	0.5	cloudy	J. J. Nanry.
Sacramento, California	30.03	762.7	30.11	764.8	48.2	9.0	91	calm	0	0		0	0			0	0	clear	J. A. Barwick
St. Louis, Missouri	29.35	745.5	29.97	761.2	53.7	12.1	63	w.	14	6.3		3 cs	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	30.00	762.0	30.03	762.7	19	— 7.2	84	sw.	5	2.2			10 s			0.03	0.8	cloudy	Fred. H. Clarke
St. Paul, Minnesota	28.82	732.0	29.69	754.1	39.5	4.2	65	w.	7	3.1		4 ck	0	sw		0.01	0.3	fair	P. F. Lyons.
St. Vincent, Minnesota	28.67	728.2	29.57	751.1	31	— 0.6	88	nw.	9	4.0		0	0			0	0	clear	C. B. Dilley
Salt Lake City, Utah	25.72	653.3	30.12	765.0	44	6.7	63	calm	0			0	6 s			0	0	fair	J. Craig.
San Diego, California	29.88	758.9	29.95	760.7	54.0	12.2	74	n.	2	0.9		0	0			0	0	clear	F. R. Day.
Sanford, Florida	29.95	760.7	30.00	762.0	72.0	22.2	97	sw.	1	0.4			10 n			1.30	33.0	light rain	J. B. Marbury.
Sandusky, Ohio	29.06	738.1	29.75	755.6	49	9.4	71	sw.	22	9.8		0	0			0.48	12.2	clear	B. F. Hough.
Sandy Hook, New Jersey	29.54	750.3	29.57	751.1	56.0	13.3	74	w.	29	13.0		0	0			0.33	8.4	clear	B. A. Blundon.
San Francisco, California	30.04	763.0	30.11	764.8	53.5	11.9	96	calm	0	0		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	29.93	760.2	30.02	762.5	64	17.8	60	nw.	7	3.1		4 cs	3 s	w.	sw.	0.13	3.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.37	669.8	30.07	763.8	29	— 1.7	80	w.	4	1.8		0	0			0	0	clear	S. W. Morrison.
Shreveport, Louisiana	29.82	757.4	30.06	763.5	48.0	8.9	93	nw.	1	0.4		0	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Mattingly
Sitka, Alaska	29.79	756.7	29.86	758.4	35.5	1.9	84	w.	3	1.3			10 s		w.	0.65	16.5	cloudy	F. W. Fickett.
Smith, Fort, Arkansas	29.58	751.3	30.06	763.5	40.5	4.7	91	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville North Carolina	29.94	760.5	29.98	761.5	61.3	16.3	69	nw	4	1.8		5 c	2 s	w.		0.02	0.5	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.14	765.5	32	0.0	71	sw.	6	2.7		0	0			inap.	inap.	clear	John F. Hemenway.
Springfield, Illinois	29.25	742.9	29.94	760.5	48	8.9	67	w.	8	3.6		0	0			inap.	inap.	clear	T. B. Jennings.
Stockton, Fort, Texas	27.07	687.6	30.10	764.5	36.0	2.2	58	sw.	6	2.7		0	0			0	0	clear	Louis Dorman.
Tatoosh Id., Wash. Ter	30.16	766.1			43.6	6.4	95	sw.	10	4.5			10 s		sw.	0.53	13.5	cloudy	R. Connor.
Thomas, Camp, Arizona	27.36	694.9	30.07	763.8	31	— 0.6	71	calm			0	0	0			0	0	clear	R. O. Lord.
Toledo, Ohio	29.02	737.1	29.72	754.9	49	9.4	71	sw.	17	7.6		0	0			0.07	1.8	clear	A. Buell.
Unalashka, Alaska	30.34	770.6	30.36	771.1	37	2.8	72	sw.	5	2.2		0	0			0	0	clear	Samuel Applegate
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.87	758.7	30.13	765.3	52.8	11.6	90	calm	0	0		0	fg.			0.03	0.8	clear	James Kenealy.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.67	753.6	29.79	756.7	58.4	14.7	60	nw.	10	4.5		2 k	0	w.		0.33	8.4	clear	T. B. Harrison.
West Las Animas, Colorado	25.97	659.6	29.90	759.4	29.5	— 1.4	45	nw.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	29.93	760.2	29.99	761.7	64.0	17.8	73	nw.	4	1.8		0	0			0.02	0.5	clear	Samuel A. Haney.
Yankton, Dakota	28.59	726.2	29.92	760.0	43.8	6.6	58	nw.	5	2.2		6 c	0			0	0	fair	E. H. Thompson.
Yuma, Arizona	29.81	757.2	29.96	761.0	50.0	10.0	54	s.	1	0.4		0	0			0	0	clear	W. S. Delano
Sub-series.																			
Bluefields, Nicaragua					77	25.0		nw.			1	0	9 ks		n.	0.17	4.3	threatening	W. H. Jackson.
Bogota, U. S. C.	22.02	559.3			54.0	12.2	77	calm	0	0		0	7s;ks		w.	0.350	8.9		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2	74.4	23.6	82	n.	2	0.9		2 cs	2 s			0	0	fair	Robert Johnstone.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	86	se.			2	4 ck	0			0.190	4.8	clear	Dr. C. J. Herm.
Puerto Berrio, U. S. C.	29.30	744.2	29.86	758.4	78	25.0	89	calm			0	9 ck	1 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					74	23.3	89	ne.			0.5		5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.36	771.1	30.42	772.7	31.5	— 0.3	95	e.	7	3.1		4 k	4 s	e.	e.	0.12	3.0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
District No. 1—North Atlantic																		
H. M. S. Alexandra, N. 38° 26′, E. 27° 09′	30.10	764.5	70	21.1	61	ne.			4		8	ne.						d. clouds.
H. M. Dockyard, Bermuda, Atlantic	30.06	763.5	72	22.2	74	sse.			4		7	sse.						d. clouds.
H. M. S. Flamingo, N. 35° 02′, W. 64° 03′	30.01	762.2	75	23.9	90	ssw.			6		6	ssw.				6	ssw.	squally.
H. M. S. Himalaya, N. 33° 12′, W 61° 12′	30.12	765.0	76	24.4	68	ssw.			2		4	ssw.				3	ssw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.09	764.3	75	23.9	81	wnw.			2		4							d. clouds.
H. M. S. Opal, mouth of Niger river, W. Africa	29.90	759.4	81	27.2	87	ssw.			1		6	ssw.						d. clouds.
H.P. M. S. Duoro, St. Thomas, W.I.	29.87	758.7	82.4	28.0	85	s.			5		9	se.				4	se.	overcast.
U. S. Navy Yard, Portsmouth, N. H *	29.17	740.9	55	12.8	81	w.	16	7.2			2	nw.		1.50	38.1			fair.
U. S. S. Jamestown, Newport, R. I.	29.39	746.5	57	13.9	75	w.			6		2							clear.
U. S. S. Kearsarge, Algiers, Africa	30.11	764.8	72	22.2	80	ne.			1		2							fair
U. S. S. Lancaster, Algiers, Africa	30.12	765.0	74	23.3	100	n.			1		2	calm						fair.
U. S. S. New Hampshire, Newport, R. I*	29.37	746.0	58	14.4	76	w.			5		2	w.				sm'h		fair.
U. S. S. Powhatan, Boston, Mass	29.30	744.2	57	13.9	75	wnw.			4		2	wsw.						fair.
U.S. S. Quinnebaug, Leghorn, Italy	30.25	768.3	69	20.6	61	ne.			1		5	ne.						fair.
U. S. S. Saratoga, Poughkeepsie, N. Y	29.48	748.8	54	12.2	100	w.			2–3		8?	w.		h'vy	h'vy	sm'h	w.	clear?
U. S. S. Swatara, Port au Prince, Hayti, W.I.	29.99	761.7	78	25.6	82	calm			0		0			0	0	sm'h		clear.
U. S. S. Vandalia, New York, N. Y.	29.59	751.6	57	13.9	75	w.			5		0							clear
S. S. British Crown, N. 41° 35′, W. 60° 05′†	29.71	754.6	71?	21.7?		ssw.			7		10			12 h'r	12 h'r	h'vy	ssw.	rainy.
S. S. British Prince, N. 50° 23′, W. 3.° 26′ ††	29.59	751.6	48	8.9		wsw.			8		7	wnw.		2 h'r	2 h'r	h'vy	w.	h'vy squalls.
S. S. British Princess, N. 51° 19′. W. 14° 00′ †	30.23	767.8	57	13.9		ssw.			5		10	sw.		2 h'r	2 h'r	mod.	ssw.	overcast.
S. S. Ohio, N. 46° 47′, W. 68° 35′ †	29.43	747.5	58	14.4	88	sw.			7		0			8 h'r	8 h'r	r'gh	sw.	clear.
S. S. Prussian, Glasgow, Scotland			53	11.7		wsw.			2		10	w.		0	0			foggy.
S. S. Scandinavian, N. 54° 43′, W. 22° 49′*	29.37	746.0	49	9.4		n.			2		10	ne.		12 h'r	12 h'r	cross	var.	drizzling.
S. S. Sardinian, N. 52° 56′, W. 52° 32′	29.94	760.5	36	2.2		wsw.			2		1	nw.		0	0	long	ne.	clear.
S. S. Alvo, Aux Cayes, Hayti, W.I*	29.98	761.5	78	25.6		ene.			2		7	calm		0	0	long	e.	cloudy.
S. S. Andes, N. 23° 00′, W. 69° 35′			70	21.1		var.			4		8					h'vy	sw.	cloudy.
S. S. Ailsa, Kingston, Jamaica, W. I.			77	25.0	95	ene.			2		2	e.		0	0	sm'h		fine.
S. S. Avilla, Jan Juan, Porto Rico, W.I.			81	27.2		ne.			2		7	ne.		rain	rain	sm'h		
S. S. Devonia, N. 42° 45′, W. 58° 20′*†	29.73	755.1	60	15.6		ssw.			5		10	ssw.				short	s.	rainy.
S. S. Dorian, Boston, Mass	29.26	743.2																
S.S. Ethiopia, N. 52° 58′, W. 28° 20′†	29.36	745.7	48	8.9	100	wsw.			6		10	wsw.		6 h'r	6 h'r	7	sw.	raining.
S. S. Galatia, Suez Canal, Egypt †	29.95	760.7	75	23.9	81	n.			2		0			0	0			clear.
S. S. Llandaff City, N 41° 15′ W. 59° 39′†	29.80	756.9	50	10.0		sw.			7		10	w.		6 h'r	6 h'r	cf'd	sw.	threatening.
S. S. Gallia, N. 50° 34′. W. 24° 07′			60	15.6	100	ssw.			7		10	sw.		rain	rain	high	sw.	squally.
S. S. Pavonia, N. 46° 00′, W. 39° 00′*	29.98	761.5	50	10.0	79	n.			6		10			5 h'r	5 h'r	r'gh	n.	
S. S. Scythia, N. 40° 52′, W. 69° 18′	29.43	747.5	55	12.8	81	wsw.			6					6 h'r	6 h'r	h'vy	wsw.	
S. S. Samaria, N. 51° 20′, W. 11° 10′*	30.31	769.9	55	12.8		se.			5		10			1 h'r	1 h'r	sm'h		cloudy
S. S. Canada, N. 47° 00′, W. 47° 27′*	30.24	768.0	35.6	2.		n.			2		10	n.		0	0	r'gh	n.	covered.
S. S. France, N. 41° 21′, W. 66° 01′			53.7	12		wsw.			6		4	w.		0	0	h'vy	w.	fair.
S. S. Olinde Rodrignes, N. 11° 12′ W. 64° 21′ *†	29.90	759.4	82	27.8		ne.			4		0			0	0	mod.	ne.	clear.
S. S. Wisconsin, N. 51° 11′, W. 24° 07′ *	29.54	750.3	57	13.9		s.			7		10	sw.		16 h'r	16 h'r	r'gh	wsw.	cloudy.
S. S. Wyoming, Sandy Hook, N.J	29.60	751.8	56	13.3		w.			6		0			12 h'r	12 h'r	long	se.	clear.
S. S. Frisia, N. 49° 36′, W. 27° 05′	29.67	753.6	51	10.6		var.			4–5		10	nw.		6 h'r	6 h'r	h'vy	var.	cloudy.
S. S. Gellert, N. 41° 32′, W. 63° 14′			70?	21.1?	95	s.			7		8	ssw.		4 h'r	4 h'r	high	ssw.	cloudy
S. S. Lessing, N. 45° 28′. W. 46° 17′			46	7.8		nnw.			4		6	nnw.		0	0	h'vy	n.	cloudy.
S. S. Westphalia, New York, N.Y	29.55	750.6	56	13.3	81	s.			4		4	ssw.		10 h'r	10 h'r			rainy
S. S. Rhaetia, N. 45° 56′, W. 49° 12′	30.26	768.6	41	5.0	91	wnw.			5		8	w.		0	0	long	ne.	cloudy.
S. S. Nessmore, N. 50° 26′, W. 31° 40′	29.51	749.5	53	11.7	93	wnw.			7		5	nw.		sh'rs	sh'rs	cross	var	fair.
S. S. Bulgarian, N. 42° 59′, W. 60° 07 *	29.71	754.6				s.			5		10?	ssw.		13 h'r	13 h'r	mod.	s.	clear.?
S. S. Virginian, N 49° 13′, W. 33° 22′*	29.78	756.4	49	9.4		nw.			6			nw		2 h'r	2 h'r	cf'd	sse.	cloudy.
S. S. Hevelius, N. 45° 43′, W. 10° 40′ †	30.22	767.6	60	15.6		sse.			5			s.		0	0	long	var.	cloudy.
S. S. Sirius, N. 29° 17′, W. 66° 58′	30.09	764.3				sse.			2		1	sse		0	0	long	n.	clear.
S. S. Rio Grande, N. 24° 17′, W. 82° 21′ †	29.95	760.7	82	27.8		ese.			4		10	s.		12 h'r	12 h'r	sm'h		gloomy.
S. S. Lampassas, N. 35° 57′, W. 75° 25′			82	27.8		w.			6		6	se.		0	0	mod.	s	cloudy.
S. S. Chalmette, N. 38° 03′, W. 74° 28′ †	29.73	755.1	64	17.8		w			6		3	w.		3 h'r	3 h'r	long	s.	clear.
S. S. New York, N. 25° 25′ W. 84° 15′*†	29.94	760.5	79	26.1		ne.			7		10	ese.		0	0	h'vy	ese.	cloudy.
S. S. Alleghany, Norfolk, Va†	29.93	760.2	58	14.4		wnw.			6		0			0	0			clear.
S. S. Archimede, N. 36° 12′ W. 8° 53′†	30.02	762.5	74	23.3		e.			3		3	e		0	0	sm'h	nw.	clear.
S. S. City of Washington, N. 19° 47′, W 93° 15′ *†	30.00	762.0	85	29.4		ne.			3			ne.		0	0	sm'h		fine.
S. S. Cienfuegos, N. 27° 44′. W. 76° 20′			79	26.1		sse.			4		3	e.		1 h'r	1 h'r	mod.	se.	fine.
S. S. Grecian, Liverpool, Eng.	30.46	773.9	53	11.7	86	sse.			5		10	sse.		0	0			cloudy.
S. S. England, N. 50° 53′, W. 16° 23′	30.06	763.5				s.			5		5	s.		0	c	mod.	s.	fair.
S. S. Erin, New York, N. Y			50	10.0		wsw.			6		0			6 h'r	6 h'r			clear.
S. S. Holland, N. 43° 21′. W. 45° 56′	30.31	769.9	40	4.4		n.			3		7	n.		0	0	h'vy	n.	fine.
S. S. America, N. 49° 52′ W. 6° 02′			58.0	14.4	88	se.			3		8	se.		0	0	mod.	se.	cloudy.
S. S. Donau, N. 49° 49′. W. 6° 10′	30.43	772.9				se.			2		5	se.		0	0	sm'h	se.	fair.
S. S. Elbe. N. 49° 56′ W. 30° 32′	29.64	752.8	50.9	10.5	94	wnw.			6–7		6	wnw.		0	0	high	var.	fair.
S. S. Hermann, N. 49° 55′, W. 29° 48′	29.65	753.1	54.5	12.5	76	w.			5		10	w.		6 h'r	6 h'r	high	w.	raining.
S. S. Orinoco, New York, N.Y			60	15.6		wsw.			4		0			6 h'r	6 h'r			clear.
S. S. Main, N. 45° 39′, W. 51° 52′	30.18	766.6	41.0	5.0		sw.			3–4		5	sw.		2 h'r	2 h'r	mod.	s.	fair.
S. S. Neckar, N. 43° 12′, W. 57° 44′			60.0	15.6	94	se.s			3–6		6	sw.		rain	rain	mod.	sw.	
S. S. Ohio, N. 41° 14′. W. 56° 39′	30.02	762.5				s.			7		10	se.		5 h'r	5 h'r	long	s.toe.	rainy.
S. S. Rhein, N. 47° 50′ W. 32° 13′						nw.			6		5	nw.		6 h'r	6 h'r	cross	nw.	fair.
S. S. Weser, N. 46° 08′ W. 33° 26′	29.92	760.0	54.5	12.5		wnw.			5		5	nw.		2 h'r	2 h'r	cross	wnw.	fair.
S. S. City of Augusta, Savannah, Ga †	30.10	764.5				nne.			2		6	e.						fine.
S. S. Muriel, N. 24° 10′ W. 65° 35′	30.05	763.3	79	26.1		ene.			4		0			0	0	rg'h	ne.	clear.
S. S. Rhynland, N. 43° 24′, W. 58° 25′			53	11.7		s.			6		7	s.		16 h'r	16 h'r	high	w.	squally.
S. S. Pennland, N. 49° 44′. W. 17° 40′			58	14.4	94	sse.			6		8	sse.		0	0	mod	s.	cloudy.
S. S. Switzerland, N. 50° 22′. W. 14° 36′*†	30.27	768.8				sse.			1		10	sse.		0	0	sm'h		cloudy.
S. S. Vaderland, N. 43° 20′, W. 49° —			46	7.8		e.			2		3	sw.		0	0	high	ene.	clear.
S.S. Waesland, N. 42° 42′. W. 59° 05′	29.80	756.9	59	15.0		s.			7		10	sw.		12 h'r	12h'r	high		rainy.
S. S. P. Caland, N. 44° 36′, W. 54° 20′	29.86	758.4	51.1	10.6	75	s.			5		10	s.				4	sse.	rainy.
S. S. Schiedam, N. 44° 16′, W. 52° 21′	30.14	765.5	50.4	10.2	81	sse.			6		10			0	0	long	s.	cloudy.
S. S. Zaandam, Amsterdam, Holland	30.42	772.7	62.2	16.8	89	e.			3		7	e.		0	0			fair.
S. S. Caracas, N. 14° 06′, W. 68° 53′ *†	30.00	762.0	84.5	29.2	85	e.			5		3	e.		½ h'r	½ h'r	short	e.	clear.
S. S. W. A. Scholten, N. 30° 38′, E 0° 09′	30.37	771.4	55.4	13.0	88	se.			3		10	ene.						hazy.
S. S. Valencia, N. 29° 52′, W. 71° 03′ *†	29.98	761.5	78	25.6	78	ssw.			5		5	sw.		0	0	h'vy	ene.	fair.
S. S. State of Georgia, N. 54° 33′, W. 21° 24′			56	13.3		s.			8		10			16h'r	16 h'r	r'gh	wsw.	rainy.
S. S. State of Indiana, N. 45° 52′, W. 49° 06′*†	30.20	767.1	41	5.0		s.			4		5	sw.		0	0	mod.	ne.	fair.
S. S. State of Alabama, N. 32° 13′. W. 52° 02′*†	30.15	765.8	68	20.0		ne.			4		7	ne.		0	0	mod.	ne.	fair.
S. S. Romano, off Portland, Eng.			54	12.2		ene.			3		10					sm'h		
S. S. Salerno, New York, N. Y †	29.57	751.1	52	11.1		sw.			5		3	sw.		1.0	25.			clear.
S. S. Dominion, N. 55° 26′, W. 28° 17′*†	29.60	751.8	48	8.9		wsw.			5		10	sw.				rg'h	var.	cloudy.
S. S. Oregon, Quebec, Quebec			46	7.8		W.			5		10	ese.				mod.	ne.	raining.
S. S. Quebec, Liverpool, Eng.			50	10.0		se.			2		8	se.		0	0			cloudy.
S. S. Texas, N. 33° 52′, W. 35° 56′*†	30.00	762.0	73	22.8	85	e.			6		5	s.		0	0	h'vy	se.	fair.
S. S. Olbers, N. 51° 17′ W. 24° 16′	29.52	749.8				var.					10	var.		6 h'r	6 h'r	high	var.	raining.
S. S. Daniel Steinmann, N 46° 47′, W. 37° 46′ †	29.98	761.5	50	10.0		nw.			6		9	nnw.		0	0	h'vy	nw.	squally.
S. S. Plantyn, N. 45° —′, W. 49° 40′									6		5	sse.		5½ hr	5½ hr	cross	nnw.	
S. S. Britannic, N. 42° 00′ W. 53° 56′†	30.10	764.5	51	10.6		s.			6		9	se.		0	0	high	se.	cloudy.
S. S. Celtic, N. 45° 11′, W 53° 07′†	30.07	763.8	52	11.1		s.			5		10			4 h'r	4 h'r	h'vy	w.	overcast.
S. S. Iowa, N. 43° 01′, W. 62° 54†	29.43	747.5	58	14.4		s.			6		10	s.		9 h'r	9 h'r	high	s.	cloudy.
Bk. Arda, N. 20° 03′, W. 69° 43′						e.			2		4	e.		0	0	mod.	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.63	778.0	42	5.6	100	se.			1		4	se.		0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
District No 1—North Atlantic.—Continued.																		
Schr. Arthur Burton, N. 33° 40′, W. 76° 20′†	29.91	759.7				nnw.			7		2		n.	6 h'r	6 h'r	h'vy		threatening.
Schr. Abbie H. Gheen, off Shinnecock, N. Y†	29.55	750.6	60	15.6		w.			9									clear.
S. S. Antonio Lopez, Barcelona, Spain*	30.23	767.8	63	17.2	80	e.			3		8			0	0			cloudy.
Bg. Alcira, Maracaybo, Venezuela	29.94	760.5	86	30.0		e.			1		2		ese.	0	0			clear.
Bgt. Achsah, N. 34° 48′, W. 63° 04′†	29.99	761.7	72	22.2		s.			4		5		s.	0	0	r'gh	ssw.	fair.
Schr. Adda Doane, N. 11° 15′, W. 60° 20′ *†	29.99	761.7				nne.			3		8		ne.	1 h'r	1 h'r	sm'h		cloudy.
Bg. Belle of the Bay, Pascagoula, Mississippi†	30.01	762.2				n.			4		1		se.	1 h'r	1 h'r			clear
Schr. Clotilde, N. 22° 18′, W. 97° 20′†	30.05	763.3	81	27.2		nnw.			6		8		n.	0	0	r'gh	n.	cloudy.
Schr. C. R. Flint, N. 18° 25′, W. 78° 58′			85	29.4		ene.			2		1			0	0	mod	ese.	clear.
S. Carondelet, N. 28° 40′, W. 36° 33′*†	30.04	763.0				s.			5		5		s.	1 h'r	1 h'r	mod.	nw.	fair.
S. David Stewart, N. 36° 39′. W. 73° 28′			74	23.3		s.			4		3?		s.			mod.	ssw.	cloudy.?
S. David Crockett, N 3° 54′, W. 42° 01′*.	29.91	759.7	85	29.4	76	ene.			3		5			0	0	sm'h	se.	d. clouds.
S. E. J. Spicer, New York, N. Y	29.60	751.8	60	15.6	94	wnw.			7		10?		wsw.	18 h'r	18 h'r			clear.?
Bk. E. D. Bigelow, N. 26° 22′, W. 86° 45′†	29.94	760.5	82	27.8		s.			2		1		sw.	0	0	h'vy	s	fine.
U. S. Fish Com S.S. Fish Hawk, Potomac river†	29.83	757.7	60	15.6	94	w.			4		1		calm	1.85	45.0			clear.
Bk. Galeon, N. 33° 15′, W. 77° 30′†	29.92	760.0	75	23.9		wnw.			6		10		nnw.	1 h'r	1 h'r	mod.	sw.	misty.
Bk. Hattie G. McFarland, Barbadoes, W. I†	29.98	761.5	78	25.6		ese.			2		4		se.	3 h'r	3 h'r			
Bk. Heinrich & Tonio, N. 42° 23′, W. 41° 18′†	30.10	764.5	57.5	14.2		nnw.			5		5		nnw.	6 h'r	6 h'r	r'gh	var.	squally.
Schr. Isabel Alberto, N. 38° 18′, W. 74° 22′						wnw.			5		3		w.	h'vy	h'vy	r'gh	var.	fair.
Schr. Jennie N. Huddell, Marcus Hook, Pa†	29.75	755.6	59	15.0	70	w.			3		0			2 h'r	2 h'r			clear
Bg. John Wesley, N. 11° 55′, W. 46° 51′			82	27.8		se.			1		4		se.	3 h'r	3 h'r	cross	var.	fair.
Bk. John H. Pearson, N. 18° 42′, W. 41° 28′						se.			1				se.	0	0	long	nnw.	clear.
Schr. John Bracewell, Portsmouth, N. H.						w.			6		1		wnw.	18 h'r	18 h'r	r'gh	se.	clear.
Bg. Josefa, N. 31° 45′, W. 73° 45′†	29.99	761.7				sw.			9		10		sw.	2 h'r	2 h'r	r'gh	sw.	raining.
Bkt. John Baizley, N. 33° 55′, W. 31° 33′*†	29.94	760.5				nne.			9		8		ne.	8 h'r	8 h'r	h'vy	ne.	
Bg. L. & W. Armstrong, N. 25° 40′, W. 61° 45′ *†	30.08	764.0				ene.			4		1		ne.	½ h'r	½ h'r	mod.	ne.	fine.
S. S. Madrid, N. 49° 56′, W. 2° 27′†	30.36	771.1	57	13.9	94	ene.			6		8		ene.	0	0	mod.	ene.	cloudy.
S. S. Mendoza, N. 17° 11′, W. 55° 14′						se.			1				se.	4 h'r	4 h'r	sm'h	ne.	overcast.
Schr. Minnie A. Bonsall, Mayport, Fla.†	30.07	763.8	75	23.9		nne.			5				ne.	0	0			cloudy.
Bk. Matthias, N. 49° 12′, W. 12° 40′*†	30.30	769.6	59.0	15.0		s.			3		10		s.	0	0	3	nw.	hazy.
Schr. Norena. Humacao, Porto Rico*†	30.09	764.3				n.			1		5		ene.	2 h'r	2 h'r			showery.
Bk. National Eagle, N. 36° 15′, W. 4° 23						e.			6		8		e.	4 h'r	4 h'r	r'gh	ese.	cloudy
S. Rudolph, N. 50° 16′. W. 2° 00′*.	30.42	772.7	50.6	10.3		ene.			5		10		ene.	0	0	long	w.	hazy.
Schr. Rollin Sanford, Key West, Fla.†	29.95	760.7				ese.			5		10		s.	light	light			cloudy
Bg. Rising Sun, San Juan, Porto Rico †	29.97	761.2	83	28.3														
Bk. Saga, N. 50° 17′, W. 0° 50′*†.	30.29	769.4	56.5	13.6					3-5		4		ene.	0	0	sm'h	ene	foggy.
S. Salisbury, N. 37° 03′, E. 16° 09′	30.10	764.6	68.2	20.1	90	nne.			6		7 kn		ne.	3 h'r	3 h'r	long	ne.	cloudy
Bgt. Sunlight, N. 21° 05′, W. 50° 58′†	30.12	765.0				e.			5		4		e.	0	0	mod.	ese.	fair.
Bk. Samuel B. Hale, N. 6° 06′, W. 27° 08′						var.			1				ese.			long	s.	showery.
Bk. Sunbeam, Rotterdam, Holland †	30.34	770.6	54	12.2	88	ene.			2		10			0	0			overcast.
Bk. Send, San Juan, Porto Rico*†	30.00	762.0	82	27.8		ene.			5		2		ene.	2 h'r	2 h'r			
S. St. Francis, N. 20° 20′, W. 37° 30′			80	26.7		sse.			3		3		s.	2 h'r	2 h'r	sm'h	ene.	fair.
Bk. St. Lawrence, N. 25° 59′, W. 67° 00′.						nne.			5				ne.			r'gh	n.	clear.
Bk. Southern Belle, N. 23° 45′, W. 40° 45′†	29.95	760.7	72	22.2		n.			3		0			0	0	h'vy	n.	clear.
Bk. Tuck Sing, N. 31° 02′, W. 71° 10′						ssw.			4		5?		sw.	0	0	short	s.	cloudy.?
Schr. Walter L. Plummer, N. 20° 05′, W. 72° 50′ *†	30.05	763.3				ene.			2		1		e.			sm'h	e.	clear.
Bk. Pilgrim, N. 16° 50′, W. 50° 30′						ese.			2		4		ese.	0	0	mod.	ene.	clear
Bk. Achille F. N. 6° 30′, W. 46° —′†	29.98	761.5	79	26.1		ese.			2		2		e.	0	0	long	ne	clear.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	29.99	761.7	57	13.9	87	n.			1		0							blue sky
H. M. S. Boadicea, S. 29° 08′, E. 15° 42′	29.99	761.7	64	17.8	94	s.			1		10					2	sse.	misty.
H. M. S. Sylvia, S. 39° 07′, W. 58° 37′	29.99	761.7	56.2	13.4	83	nw.			3		1					3	nw.	blue sky.
U. S. S. Brooklyn, S. 35° 04′. E. 5° 11′ *	29.85	758.2	60	15.6	94	nnw.	17	7.6			10		nne.	0	0	mod.	nne.	misty.
U. S. S. Nipsic, S. 34° 45′, W. 57° 40′ *	30.05	763.3	63	17.2	72	nw.			2		10?					sm'h		clear ?
S. S. Archimedes, S. 0° 01′, W. 31° 02′	29.96	761.0				se.			4		2		se.	0	0	mod.	se.	fine.
S. S. Rosse, S. 23° 00′. W. 42° 10 *	29.98	761.5	70	21.1		calm			0		10		ssw.	sh'rs	sh'rs	h'vy	ssw.	overcast.
Bk. Alpheus Marshall, S. 34° 56′, W 14° 46′ *†	29.93	760.2	58	14.4	94	ene.			4		10		nw.	2 h'r	2 h'r	light	sw.	cloudy
S. Armenia, S. 53° 20′, W 56° 25′*	29.65	753.1	51	10.6	86	nnw.			4		0			0	0	mod.	nnw.	clear.
Bk. Bore, S. 16° 10′, W. 5° 12′*†	30.49	774.4	70	21.1		ese.			3		5		e.	0	0			fair.
Bk. Ceylon, S. 18° 18′, W. 36° 05′ †	30.10	764.5	80	20.7	87	n.			3		2		n.	0	0	sm'h	n.	clear.
S. Dynomene, S. 15° 00′, W. 31° 08′	30.06	763.5	77	25.0	91	e.			3		7			0	0	mod.	ene.	d. clouds.
S. Frank N. Thayer, S. 25° 20′, E. 7° 04′ *†	30.18	766.6	70.5	21.4	61	calm			0		10 ks		s.	0	0	sm'h		d. clouds.
Bkt. Louise Adelaide, S. 24° 05′, W. 36° 45′ †	30.03	762.7				w.			1		hz.			0	0	long	wsw.	fair.
Bk. Rosalie, S. 3° 39′, W. 32° 32′*†.	29.95	760.7				se.			4		0			0	0	light	se.	clear.
Bgt. Willie, Montevideo, Uruguay*†	30.02	762.5	64	17.8		nw.			1		0			0	0			clear.
Bk. Childwall, S. 44° 00′, E. 4° 06′ *	29.55	750.6	55	12.8		n.			3		10		nne.	12 h'r	12 h'r	sm'h		raining.
District No. 3—North Pacific.																		
H. M. S. Audacious, Kobe Bay, Japan	29.93	760.2	70	21.1	90	ne.			3		10	ne.						overcast.
H. M. S. Champion, Penang, Malay Peninsula	29.90	759.4	80	26.7	96	e.			1		3							blue sky.
H. M. S. Flying Fish, N. 30° 38′, E. 122° 21′	30.17	760.3	61.5	16.4	74	wnw.			6		8	wnw.				4	wnw.	d. clouds.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.86	758.4	79.0	26.1	86	calm			0		0							misty.
H. P. M. S. Tamoga, Macao, China	30.06	763.4	77.8	25.5	76	n.			5		10			0	0			overcast.
U. S. Naval Hospital, Yokohama, Japan			58	14.4	82	nnw			1		10			0	0			gloomy.
U. S. S. Essex, Nagasaki, Japan	29.91	759.7	73	22.8	90	sw.			1		10		sw.					overcast.
U. S. S. Hartford, Panama, Panama*	29.84	757.9	78	25.6	91	nw.			2		5			8 h'r	8 h'r			fair.
U. S. S. Juniata, Canton, China	30.10	764.5	73	22.8	95	nne.			3		8		ne.	0	0			fair.
U. S. S. Monocacy, Nagasaki, Japan	30.08	764.0	73	22.8	85	wsw.			2		10		wsw.			sm'h		cloudy.
U. S. S. Pensacola, Karatsu Bay, Japan			70	21.1	90	ssw.			3		8		wsw.	mod.	mod.			cloudy.
U. S. S. Ranger, N. 25° 14′, W. 113° 34′	30.04	763.0	69	20.6	85	nne.			2		0			0	0			clear.
U. S. S. Richmond, N. 34° 18′, E 135° 01′	29.98	761.5	70	21.1	90	ese.			4		10		ese.	0.8	20.			cloudy
S. S. City of Chester, San Francisco, Cal†	30.11	764.8	53	11.7	94	ne.			2									clear.
S. S. Ancon, Point Arquello, Cal†	29.96	761.0	54	12.2	81	nne.			2		0			0	0	light	wnw.	clear.
S. S. Queen of the Pacific, San Francisco, Cal.†	30.11	764.8	53	11.7	94	calm			0		0			0	0			clear.
S. S. City of Pekin, N. 40° 07′, 180° 03′†	30.32	770.1	49	9.4		sse.			6		10		sse.	0	0	mod.	sse.	squally.
S. S. City of Sydney, San Francisco, Cal.*†	30.15	765.8	61	16.1	82	wsw.			2		0							clear.
S. S. City of Rio de Janeiro, N. 35° 05′, W. 148° 41′†	30.34	770.6	67	19.4	79	sw.			1		2		sw.	0	0	sm'h		clear.
S. S. Colima, Panama, Panama†	29.92	760.0	77	25.0	95	nw.			2		9		nw.	0.20	5.1			cloudy
S. S. San Blas, N. 35° 02′, W. 121° 15′†	30.03	762.7	59	15.0		nne.			6		0			0	0	rg'h	nnw.	clear.
S. S. San Juan, N. 13° 30′, W. 89° 16′			84	28.9		ne.			2		0			0	0	light	sse.	fine.
S. S. Zealandia, N. 13° 01′, W. 161° 50′			72	22.2	71	w.			4		5			8 h'r	8 h'r	mod	e.	fair.
S. S. Alameda, Honolulu, Sandwich Islands†	30.02	762.5	75	23.9		e.			1		1		e.	0	0			fine.
S. Parker M. Whitmore, N 10° 20′, W. 120° 20′ *†	29.86	758.4	79	26.1										5 h'r	5 h'r	cross	var.	squally.
S. Sovereign of the Seas, N. 14° 58′, W. 122° 18′			77	25.0	91	ne.			4		1			0	0	r'gh	n.	clear.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.83	757.7	82.3	27.9	87	se.			4		9					sm'h		thund'r st'm
H. M. S. Mutine, Coquimbo, Chili	30.01	762.2	56	13.3		calm			0		10							misty.
H. M. S. Nelson, Sydney, N. S. W	30.13	765.3	54	12.2	87	calm			0		0							blue sky
U. S. S. Iroquois, Callao, Peru	30.01	762.2	62	16.7	88	s.			2		8					sm'h		cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.00	762.0	60	15.6	65	calm			0		2		se.					fair.
U. S. S. Onward, Callao, Peru*†	30.11	764.8	61	16.1	88	s.			2		10		s.			mod.	w.	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili *	30.07	763.8	60	15.6	82	calm			0		0					sm'h		clear.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 4—South Pacific—Continued.																		
S. S. Australia, Sydney, N. S. W.	30.12	765.0	63	17.2	78	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	clear.
S. S City of New York, Sydney, N S. W†	30.03	762.7	60	15.6	82	w.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. E. L. Pettingill, S. 59° 33′, W. 72° 48′*†	29.20	741 7	38	3.3	.....	nw.	.....	.....	6	.....	10	.....	wnw.	12 h'r	12 h'r	h'vy	wnw.	cloudy.
S. E. B. Sutton, S. 35° 00′, W. 122° 00′ *†	30.20	767.1	63	17.2	100	calm	.....	.....	0	.....	fg.	.....	.....	0	0	h'vy	var.	foggy.
S. J. W. Gildemeister, S. 29° 05′, E 158° 40′	29.96	761.0	68.0	20.0	81	calm	.....	.....	0	.....	0	.....	.....	.....	.....	3	sw.	blue sky.
Bk. Chas. Stewart, N. 10° 20′, E. 85° 30′†	30.09	764.3	65	18.3	.....	sse.	.....	.....	6	.....	fg.	.....	.....	.....	.....	long	sse.	overcast.
S. Storm King. S. 38° 07′, W. 117° 27′ *†	30.25	768.3	.....	.....	.....	ne.	.....	.....	4	.....	10	.....	ne.	24 h'r	24 h'r	h'vy	s.	raining.
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, S 3° 00′, E. 49° 30′	29.88	758.9	81	27.2	83	n.	.....	.....	1	.....	2	calm	.....	.....	.....	.....	.....	blue sky.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	81	27.2	91	e.	.....	.....	1	.....	2	ene.	.....	.....	.....	2	ene.	blue sky
H. M. S. Tourmaline, S. 12° 00′, E. 44° 15′	29.97	761.2	81	27.2	63	ne	.....	.....	2	.....	3	ne.	.....	.....	.....	1	sm'h	blue sky.
H. M S. Woodlark, Bushir, Persia	30.06	763.5	82.5	28.1	64	nw.	.....	.....	5	.....	0	.....	.....	.....	.....	4	nw	misty.
Bk. Great Surgeon, S. 5° 50′ E. 106° 15′*†	30.30	769.6	85	29.4	.....	se.	.....	.....	1	.....	4	.....	e.	0	0	sm'h	o	fair
Bk. Mohican, S. 42° 04′, E. 62° 14′	30.10	764.5	54	12.2	.....	wnw.	.....	.....	6	.....	7	.....	wnw.	4 h'r	4 h'r	h'vy	sw.	fair.
S. S. Radnorshire, N. 9° 20′, E. 64° 17′*†	29.92	760.0	.....	.....	.....	nne.	.....	.....	3	.....	1	.....	nne.	sq 'lls	sq'lls	mod.	ne.	clear.
S. S. Strathleven, N. 5° 46′, E. 91° 30′	29.83	757.7	81.5	27.5	80	calm	.....	.....	0	.....	1	.....	.....	0	0	2	w.	blue sky.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON OCTOBER 31, 1883.

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.6	74.5	23.6	88	ne.			1		6			0	0	cloudy	Roziere.
Algiers			30.10	764.4	69.8	21.0	70	nne.			1		0			inap.	inap.	clear	Thève.
La Calle			30.09	764.3	84.2	29.0	74	ne.			2		2			0	0	fair	Fonfrède.
Tunis			30.14	765.5	68.4	20.2	66	ne.			3		3			0	0	pretty fair	Delord.
Saida			30.14	765.6															Pérée.
Tebessa					64.8	18.2	88	sw.			1		4			0	0	cloudy	St. Martin.
Geriville					69.8	21.0	14	se.			1		1			0	0	very fair	Forfert.
Laghouat			30.19	766.7	73.8	23.2	55	n.			2		0			0	0	clear	Abraham.
Biskra			30.17	766.4	76.6	24.8	48	calm			0		0			0	0	clear	Gouzon.
Australian.																			
Adelaide, South Australia			30.30	769 6	51.8	11.0	64	s.	9	4.0			9 k			0	0	cloudy	Charles Todd, F. R.A.S.
Melbourne, Victoria	30.07	763.8	30.16	766.0	50.6	10.3	70	ssw.	18	8.0			9			0.01	0.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.85	758.1	30.40	772.2	56.3	13.5	53	ne.			3		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.65	753 0	30.44	773.1	46.4	8.0	92	ese.	1.3	0.6			10			0	0		Dr. Wierzbiski
Eperies	29.55	750.6	30.45	773.4	50.0	10.0	62	calm			0		0			0	0		Julius Mikolik.
Gratz	29.19	741.3	30.45	773.5	54.3	12.4	71	se.			1		8			0	0		Andreas Rospini.
Hermannstadt	29.00	736.5	30.45	773.4	51.8	11.0	50	se.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.93	734.8	30.29	769.4	49.8	9.9	89	calm			0		0			0	0	clear	The Staff.
Lemberg	29.47	748.5	30.48	774.3	48.0	8.9	63	s.			3		0			0	0		Dr. T. Stanecki.
Pola	30.18	766 5	30.29	769.3	59.5	15.3	61	ene.			5		2			0	0		I. R. Hydrographic Office.
Szathmar	29.95	760.6	30.42	772.6	54.0	12.2	52	s.			2		0			0	0		Joseph Midlinszky, S. J
Szegedin	30.15	765.9	30.44	773.1	53.6	12.0	61	ne.			1		10			0	0		Karl Stanzel.
Trieste	30.21	767.3	30.31	769.8	60.6	15.9	59	e.			5		4			0	0		Royal Academy.
Vienna	29.69	754.2	30.41	772.5	57.4	14.1	58	se.			3		0			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.13	765.3	30.22	767.6	49.8	9.9	84	s.	8	3.6			7			0	0	misty	W. Boswell.
Armagh, Observatory	29.98	761.5	30.23	767.8	51.8	11.0	80	sse.	15	6.7			10					misty	S. Call.
Bidston, Liverpool Obs'y			30.29	769.4	48.9	9.4	75	se.	8	3.6			10					overcast	John Hartnup.
Bolton, Sharples	29.72	754.9	30.26	768.6	46.9	8.3	83	s.	6	2.7			10					misty	Thomas Mackereth.
Bradford, Yorkshire	29.89	759 2	30.28	769.1	47.7	8.7	86	s.					10			0	0	overcast	McLandsborough & Preston.
Cardington	30.17	766.3	30.28	769.1	51.0	10.6	89	ne.			0.4		10					foggy	John McLaren.
Chatham, School M. E.	30.12	765.0	30.29	769.4	51.1	10.6	83	calm			0		10					misty	Corpl. G. A. Pickles, R.E.
Falmouth, Observatory	30.00	762.0	30.23	767.8	53.7	12.1	74	se.			3		10					overcast	The Staff.
Fort Napier, Natal	27.63	701.8	29.85	758.2	75.0	23.9	52	ne.			1		2					blue sky	C. Stares, A.H.C.
Freetown, Sierra Leone	29.68	753.9	29.91	759.7	83	28.3	83	w.			6		6					d. clouds	J. W. Smith.
Galway, Queen's College	30.09	764.3	30.12	765.0	54	12.2	87	ssw.			2		6			0	0	gloomy	Wm. Ryan.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	65.4	18.6	90	ne.			5		9					gloomy	Sgt. F. Norris, A.H.C.
Glasgow, Observatory	30.05	763.3	30.26	768.6	48.7	9.3	83	se.			3							foggy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.11	764.8	30.29	769.4	51.8	11.0	77	ese.			1		10					overcast	The Staff.
Guernsey	29.94	760 5	30.24	768.1	47.0	8.3	85	e.			2		10					overcast	A. Collenette, F. M. S
Kew, Observatory	30.35	770.9	30.39	771.9	51.8	11.0	78	se.	1	0.4			10					misty	The Staff.
Leicester, Museum	30.03	762.7	30.29	769.4	49.6	9.8	89	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	30.08	764.0	30.15	765.8	68.2	20.1	73	ne.			2		3			0.26	6.6	blue sky	Corpl. Keene, A. H. C
Nassau, Bahamas	30.04	763.0	30.08	764.0	81.2	27.3	70	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College					45.8	7 7	96	ene.			1		10					overcast	J. O. Hanlon.
Oxford, Radcliffe Obs'y	30.06	763.5	30.29	769.4	50.0	10.0	82	ne.			1		10					overcast	The Staff.
Plymouth	30.16	766.1	30.23	767.8	53.8	12.1	81	ese.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys	30.00	762.0	30.10	764.5	50.5	10.3	82						0					blue sky	Rev. C. Clouston, L.L.D
Scutari Cemetery, Turkey	30.23	767.8	30.29	769.4	56.8	13.8	89	ne.			2		9					gloomy	W. H. Lyne.
Sheffield	29.99	761.7	30.28	769 1	48.8	9.3	89	calm			0		10			0	0	overcast	W. F. Cooper.
Silloth Rectory	30.22	767.6	30.25	768.3	52.6	11.4	79	e.			1		0			0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.30	769.6	46.0	7.8	88	ne.	3	1.3			10					misty	Rev. S. J. Perry.
Strathfield Turgiss					49.9	9.9	86	w.			0.3		10					foggy	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.14	765.5	30.22	767.6	56	13.3	87	se.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.14	765 5	55.9	13.3	87	sse.	23	10.3			10			blank	blank	misty	The Met'g'l Office.
Sub-series.																			
Gozo, Episcopal Seminary	29.79	756.7	30.08	764.0	67.3	19.6	76	ne.	6.2	2.8		0	8 n		ne.	0.19	4.8	cloudy	Rev. Ph. Borrello
Canadian.																			
Bathurst, N. B	29.49	749.0	29.53	750.0	43.0	6.1		w.	8	3.6		5 cs	0	nw.		0.21	5.3	d. clouds	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.46	748.3	29.50	749.3	47	8.3	72	sw.	16	7.2		0	5 s		w.	0.499	12.7	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.40	746.7	29.46	748.3	43	6.1	68	w.	10	4.5			10 ks		w.	0.23	5.8	cloudy	G. A. Blair.
Cornwall, Ontario	29.47	748.5	29.66	753 4	44.0	6.7	76	w.			2		10 s			0.052	1.3	d. clouds	Jas. Smith, M. A.
Dalhousie, N. B	29.35	745.5	29.40	746.7				w.			5	0	5 ks			1.20	30.5	blue sky	H. A. Johnson.
Edmonton, N. W. T *	27.63	701.8			9	—12.8	57	calm	0	0		0	0			0	0	clear	Alex. Taylor.
Father Point, Quebec*	29.36	745.7	29.38	746.2	39	3.9	96	w.	38	17.0		5 cs	5 ks	w.	w.	0.19	4.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.21	741.9	30.09	764.3	24	— 4.4	84	nw.	18	8.0		0	0			0.06	1.5	clear	James Stewart.
Fredericton, N. B	29.51	749.5	29.57	751.1	40.1	4.5	54	sw.	21	9.4		1 ck	0			0.110	2.8	blue sky	Prof. Thos. Harrison
Grand Manan, N. B	29.03	752.6	29.68	753.9	49	9.4	58	w	28	12.5		hz.	0			0.12	3.0	hazy	J. Chipman Seeley
Granton, Ontario	28.72	729.5	29.84	757.9	39.0	3.9	73	w.	5	2.2		0	2 s			0	0	blue sky	Jas. Grant.
Halifax, N. S*	29.55	750.6	29.67	753.6	48	8.9	63	sw.	12	5.4		0	0			0.120	3.0	clear	A. Allison.
Hamilton, Ontario	29.38	746.2	29.77	756.1	45.2	7.3	84	sw.			2	0	4 k		sw.	0	0	cloudy	Geo. Dickson, B. A.
Kingston, Ontario*	29.40	746.7	29.73	755.1	47	8.3	77	sw.	10	4.5		5 ck	2 k	sw.	sw.	0.04	1.0	fair	A. P. Knight, M. A.
Little Glace Bay, N. S	29.42	747 3	29.46	748.3	45.0	7.2	92	sw.			5	4 k	0	sw.		0.59	15.0		C. H. Rigby.
London, Ontario	28.91	734 3	29.82	757.4	40.7	4.8	74	s.			2	0	2 ks			0	0	blue sky	E. B. Reed.
Medicine Hat, N. W. T	27.92	709 2	30.35	770.9	22	— 5.6	96	s.	7	3.1		0	0			0.02	0.5	clear	John Ewart.
Minnedosa, N. W. T	28.12	714.2	30.10	766 1	20	— 6.7	91	nw.	35	15.6		0	0			0	0	clear	Rev. J. M. Wellwood.
Montreal, Quebec*	29.45	748.0	29.66	753.4	44	6.7	65	sw.	17	7.6		2 c	0	w.		inap.	inap.	clear	C. H. McLeod, C. E.
Ottawa, Ontario	29.44	747.8	29.66	753 4	37.3	2.9	90	sw.				1 cs	c			0.120	3.0	blue sky	A. McGill, M. A.
Parry Sound, Ontario*	28.96	735.6	29.66	753.4	37	2.8	85	sw.	15	6.7		2 k	5 n	w.	w.	0.20	5.1	fair	Rev. R. Mosley.
Peterboro, Ontario	28.97	735.8	29.71	754.6	43.7	6.5	57	sw.			2	0	4 k			0.05	1.3	d. clouds	Wm. O'Connor, M.A.
Port Arthur	29.00	736.6	29.71	754.6	37	2.8	82	w.	8	3.6		5 ck	2 ks	n.	w.	0	0	cloudy	W. P. Cooke.
Port Dover, Ontario	29.13	739.9	29.83	757 7	46	7.8	69	w.	14	6.3		2 k	0	w.		0	0	fair	G. Morgan
Port Stanley, Ontario	29.20	741.7	29.85	758.2	45	7.2	60	w.	16	7.2		0	5 ks		sw.	0	0	fair	M. Payne.
Qu Appelle, N. W. T	27.90	708.6	30.31	769.9	20	— 6.7	91	w.	12	5.4		0	0			0	0	clear	Leslie Gordon.
Quebec, Quebec*	29.19	741.4	29.55	750.6	40	4.4	96	sw.	20	8.9			10 ks		w.	0.14	3.6	cloudy	Capt. Asne, R. N.
Rockliffe, Ontario*	29.14	740.1	29.60	751.8	35	1.7	89	s.	3	1.3		0	2 ks		nw.	0.06	1.5	fair	W. H. McIntyre.
St. Andrews, N. B	29.57	751.1	29.62	752.3	47	8.3	73	w.	10	4.5		0	0			0.08	2.0	clear	
St. John, N. B	29.48	748.8	29.62	752 3	46.0	7.8	56	sw.	24	10.7		0	0			0	0	blue sky	G. Hutchinson.
Saint John's, N. F	29.21	741.9	29.46	748.3	47	8.3	85	s.			6	0	0			1.26	32.0	clear	J. Higgins.
St. Pierre, N. F			29.41	747.0	53.6	12.0		calm			7								The Commandant.
Saugeen, Ontario*	29.00	736.6	29.72	754.9	43	6.1	51	w.	22	9.8		5 k	0	w.		inap.	inap.	fair	
Stratford, Ontario	28.51	724.1	29.81	757.2	37.2	2.9	88	w.	9.0	4 0		0	2 ks; s			0	0	blue sky	O. J. Macgregor, M. A.

STATIONS.	Barometer. Corrected for instruments, error and for temperature		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper	Clouds. Amount and kind. Lower	Clouds. Direction. Upper	Clouds. Direction. Lower	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
CANADIAN.—Continued.																			
S. W. Point, Anticosti																			Miss Grace Pope.
Sydney, C. B.	29.40	746.7	29.46	748.3	47	8.3	83	sw.	25	11.2		0	8 k		w.	0.80	20.3	fair	[illegible], C. E.
Toronto, Ontario*	29.41	747.0	29.80	756.9	44	6.7	68	w.	8	3.6		5 ck	2 s	sw.	sw.	inap.	inap.	fair	Magnetic Observatory.
Woodstock, Ontario	28.78	731.0	29.86	758.4	40.4	4.7	75	sw.	18	8.0		10 cs	0	w.		0	0	overcast	Prof. N Wolverton, M.A.
Yarmouth, N.S*	29.68	753.9	29.75	755.6	50	10.0	80	w.	21	9.4		0	0			0.01	0.3	clear	Lt. F. E. Wilmot, R. N.
CAPE COLONY.																			
Cape St. Francis Lt. House	29.96	761.0	29.99	761.7	63.0	17.2	94	sw.	19.7	8.8		6 ck	0			0	0	fine	I. Garfelt.
Cape Town	29.86	758.4			62.8	17.1	79	nw.				0	9 k;n			0	0		
Springbok Fontein	27.87	707.9			65	18.3	56									0	0		J. T. Eustace
CHILIAN.																			
Coquimbo	29.93	760.3	30.01	762.3	55.8	13.2	92	e.			1	7 ck		n.				fair	Samuel Redolez.
Iquique	29.97	761.2	30.00	761.9	61.7	16.5	69	sw.			3							cloudy	Rafael Moreno.
Niebla	29.31	744.4	29.41	747.1	52.5	11.4	100	nw.			6	0	5		nw.	0.291	7.4	raining.	Federico Köhling.
Punta Caldera	29.93	760.2	30.02	762.4	57.2	14.0	80	sw.			1	5 c	c	sw.	sw.			cloudy	Manuel Tobar.
Punta Corona	29.69	754.2	29.88	759.0				n.			7		10			0.472	12.0	raining	Francisco Alvarado.
Valparaiso	29.90	759.4	29.98	761.6	56.8	13.8	80	s.			1	0	3					clear	Paez-i-Ampuero.
CHINESE (*Sub-series*).																			
Sung-shu-chwang	25.35	643.8																	A. Guelny.
Zi-Ka-Wei, near Shanghai	30.24	768.0	30.26	768.6	41.7	5.4	75	wnw.	7.4	3.3		0	0			0	0	clear	M. Marc Dechevrens, S. J
DANISH.																			
Copenhagen	30.40	772.2	30.45	773.4	44.6	7.0	98	e.	2	1			10					dense fog	Oversergent Fischer.
Fanoe	30.38	771.6	30.40	772.1	45.1	7.3	100	e.			4		10					hazy	Overloerer Lauridsen.
Godthaab, Greenland	29.35	745.4	29.39	746.5	16.7	— 8.5	85	nne.			4		0						S. Kleinschmidt.
Jacobshavn, Greenland	29.45	748.1	29.50	749.3	18.7	— 7.4		e.			4		7						
Stykkisholm, Iceland	29.28	743.8	29.33	744.9	38.8	3.8	85	se.			2		10						A. O. Thorlacius.
Thorshavn	29.80	756.9	29.82	757.5	52.2	11.2	97	sw.	31	14			10					raining.	Overloerer Bergh.
Vestervig	30.32	770.2	30.41	772.5	46.2	7.9	85	calm			0		0						Loerer Oesterbol.
EGYPTIAN.																			
Cairo	29.89	759.2			75.6	24.2		nne.	2.2	1.0			6 k			0	0		Albert Ismalun.
FRENCH.																			
Agen, Normal School	29.60	751.8	30.24	768.0	64.4	18	62	sse.			1	c				0	0		M. Labroue, Director.
Alençon, Normal School	29.72	755.0	30.28	769.0	50.0	10	93	e.			1		10		w.	0	0	covered	M. Nicot, Director.
Avignon, Normal School	30.20	767.0	30.28	769.0	61.9	16.6	70	nnw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.74	755.4	30.31	769.8	48.2	9.0	80	se.			1		8		se	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.04	762.9	30.31	769.9	48.0	8.9	71	e.			1		10			0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.30	744.2	30.70	767.0	43.7	6.5	94	ne.			1		10		sw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.89	759.2	30.15	765.8	60.6	15.9	71	sse.			1		8			0.008	0.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.47	748.6	30.03	762.8	48.2	9	86	ne.			2				ne.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.99	761.7	30.23	767.9	48.6	9.2	92	ne.			1		10		ne.	0	0		M. de Kermarée, Dir.
Caen, Normal School	30.15	765.7	30.22	767.7	48.2	9	81	e.			1					0	0		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.89	759.2	30.22	767.5	47.3	8.5	82	se.			1		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.78	756.4	30.30	769.7	47.1	8.4	81	s.			1		10			0	0	covered	M. Noel, Director.
Clermont-Ferrand Obs'y	28.88	733.5	30.23	767.9	59.0	15.0	53	nw.			1		0			0.012	0.3	light mist	M. Allnard, Director.
Cluny, Normal School	29.45	748.1	30.32	770.1	46.9	8.3	94	sse.			1					0.08	2.		M. de Villemontée, Dir.
Cominercy, Normal School	29.45	747.9	30.33	770.4	46.4	8	88	e.			1		10			0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.70	703.5	30.20	767.1	62.6	17	64	sw.			1		3 k			0	0		M. Jarach, Director.
Gréasque, du Rhone	29.12	739.7	30.23	767.8	67.6	19.8	47	se.			1		5		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.52	749.7	30.29	769.4	55.0	12.8	72	ese.			1		k		se.	0	0		M. Ablard, Directoor.
Guéret, Normal School	28.56	725.5	30.13	765.3	62.6	17	50	s.			1		0			0	0	clear	M. Delorme, Dir.
Lamballe, Normal School	29.94	760.4	30.21	767.4	46.4	8	91	ese.			4		10		ese.	0	0	covered	M. Ollitrault, Director
Lescar, Normal School	29.55	750.6	30.11	764.7	67.3	19.6	64	ne.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.12	765.0	30.22	767.6	48.2	9.0	73	ene.			1		10	calm	calm	0	0	covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	29.23	742.4	30.31	769.9	48.2	9.0	86	ene.			1		fg			0	0	foggy	M. André, Director
Mans, Normal School	29.93	760.3	30.25	768.3	50.9	10.5	84	se.			1		10			0	0	covered	M. Richard, Director
Marseille, Observatory	29.97	761.2	30.23	767.9	67.6	19.8	64	w.			1		6		e.	0	0		M. Stephan, Director.
Montlouis	24.98	634.6	29.83	757.6	52.2	11.2	48	s.	7.4	3.3			0			0	0		M. Cave for Dr. Fines.
Montpellier, Normal School	30.15	765.8	30.26	768.6	61.5	16.4	89	ne.			2		2	nw.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy	29.56	750.8	30.37	771.3	45.3	7.4	85	nw.			1		n			0	0		M. Hasse, Director.
Nantes, Observatory	30.08	764.0	30.10	764.4	48.6	9.2	85	e.			1		10 n			0	0		M. Larocque, Director.
Perpignan, Observatory	30.14	765.6	30.25	768.4	61.2	16.2	77	e.	5.6	2.5			1		se.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	542.1			32.7	0.4							5		w.	0.083	2.1	cloudy	M. Vaussenat, Director.
Privas, Normal School	29.26	743.1	30.35	770.8	50.0	10	86	s.			1		10	e.	s.	0	0	covered	M. Taillieu.
Puy de Dôme Obs'y, Summit	25.36	644.2			47.8	8.8	61	se.			1		2			0	0		M. Allnard.
Rochefort, Naval Obs'y	30.15	765.7	30.18	766.5	56.8	13.8	80	e.			2		0			0	0	clear	M. E. Decante, Director.
Roche-sur-Yon, N. School	29.96	760.9	30.17	766.4	50.0	10	97	ne.			1		10	nw.	nw.	0	0	covered	M. Brotier, Director.
Rodez, Normal School	28.07	713.0	30.19	766.9	59.0	15	89	w.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.27	768.8	30.32	770.0	47.5	8.6	81	ese.			1		10	ne.		0	0	covered	M. Mouillot, Dir.
St Lô	30.11	764.9	30.26	768.6	46.0	7.8	82	e.			1		10		e.	0	0	covered	M. Delaplanche, Dir.
Saint Maur, Observatory	30.13	765.2	30.29	769.4	49.3	9.6	80	ese.			1		10		ese.	0	0	covered.	M. Renou, Director.
Toulouse, Observatory	29.49	749.1	30.22	767.6	67.1	19.5	59	sse.			4		1	w.		0	0	clear	M. Baillaud, Director.
Tours	30.07	763.7	30.24	768.2	53.6	12.0	78	ne.			1		10		ne.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.78	756.3	30.27	768.8	48.9	9.4	73	e			1		10			0	0	covered	Dr. A. Berigny, Director.
Sub-series.																			
St. Martin du Hinx	30.01	762.2	30.16	766.0	66.6	19.2	77	s.	4.0	1.8			9 k		w.	0.008	0.2		M. Cartier, Director.
GERMAN.																			
Ansbach	28.87	733.2	30.34	770.7	50.7	10.4	82	se.			2		2	se.		0	0		Prof. Jnedt.
Bamberg	29.49	749.0	30.34	770.7	55.4	13.0	87	calm			0		1 s			0	0		Prof. Dr. Hoh.
Berlin	30.28	769.0	30.43	772.8	42.8	6.0	97	calm			0		10			0	0		Dr. Lensch.
Breslau	29.90	759.5	30.44	773.2	46.2	7.9	94	se.			1		10			0	0		Royal University Obs'y.
Carlsruhe	29.87	758.7	30.34	770.7	48.4	9.1	75	ne.			1		10	ne.		0	0		Albert Seitz.
Cassel	29.61	752.1	30.32	770.2	51.1	10.6	84	e.			1		10			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.96	760.9	30.33	770.4	51.4	10.8	75	se.			1		10			0	0		Physical Society.
Friedrichshafen	28.87	733.4	30.33	770.3	47.5	8.6	84	ne.			2		10	e.		0	0		Wilhelm, Chief Tel.
Hamburg	30.32	770.1	30.41	772.4	43.9	6.6	98	se.			2		10			0	0		E. Freier.
Kiel	30.39	771.8	30.40	772.2	45.7	7.6	94	se.			2		10			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.97	761.1	30.40	772.1	46.9	8.3	94	e.			1		10			0	0	foggy	H. Leppig, Asst.
Magdeburg	30.20	767.0	30.39	772.0	46.0	7.8	94	se			1		10			0.012	0.3		Weather Observatory.
Memel	30.43	772.8	30.47	774.0	44.4	6.9	91	s.			2		10 ks						Issermann.
Munich	28.46	722.8	30.34	770.6	41.2	5.1	94	e.			1		10			0.008	0.2		Central Station.
Neufahrwasser	30.45	773.3	30.46	773.7	44.8	7.1	78	n.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.77	756.1	30.30	769.6	47.8	8.8	89	calm			0		10			0	0	foggy	Dicknether.
Stuttgart	29.36	745.7	30.28	769.0	46.9	8.3	78	e.			1		6	sw.		0	0		Prof. Dr. Schoder.
Wustrow	30.39	771.8	30.41	772.5	51.3	10.7	80	ese.			2		3 s			0	0		Profs. Brandes & Reimer.
GREEK.																			
Athens	29.80	756.9	30.19	766.7	63.3	17.4		ne.			4.0		3 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.82	757.5	29.87	758.7	85.5	29.7	46	sw.	15.0	6.7			0			0	0	blue sky	
Deesa	29.43	747.4	29.90	759.4	85.0	29.4	13	ne.	10.0	4.5			0			0	0	blue sky	
Bombay	29.78	756.5	29.82	757.4	81.5	27.5	71	nnw.	18.0	8.0			0			0	0	blue sky	
Poona, Yarrowda	27.98	710.6	29.82	757.4	81.3	27.4	45	ne.	9.0	4.0			0			0	0	blue sky	
Trichinopoly	29.46	748.4	29.74	755.4	83.5	28.6	70	ese.	0.2	0.1			10			0.69	17.5	overcast	
Bellary	28.26	717.9	29.73	755.1	78.5	25.8	74	ne.	8.0	3.6			10			0	0	gloomy	
Belgaum	27.24	691.9	29.76	755.9	78.1	25.6	66	nne.	4.0	1.8			7	w.	e.	0	0	d. clouds	
Lahore	29.20	741.8	29.96	761.0	71.8	22.1	58	calm	0	0			0			0	0	blue sky	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
INDIAN.—Continued.																			
Roorkee	29.03	737.3	29.94	760.5	72.8	22.7	54	calm	0	0			1			0	0	blue sky	
Agra	29.34	745.2	29.90	759.6	80.2	26.8	27	nw.					0			0	0	blue sky	
Nagpur	28.81	731.7	29.86	758.4	76.5	24.7	78	ene.	8.0	3.6			9		e.	0	0	gloomy	
Jubbulpore	28.56	725.4	29.94	760.4	72.4	22.4	79	se.	6.0	2.7			9		w.	0	0	gloomy	
Lucknow	29.54	750.3	29.92	760.0	76.2	24.6	47	nne.	1.0	0.4			0			0	0	blue sky	
Allahabad	29.60	751.8	29.92	759.8	74.8	23.8	66	calm	0	0			3			0	0	d. clouds	
Patna	29.75	755.7	29.94	760.4	77.5	25.3	55	se.	1.6	0.7			6	se.	se.	0	0	d. clouds	
Hazaribagh	27.93	709.5	30.00	762.0	65.2	18.4	90	ssw.	3.1	1.4			10			0.15	3.8	drizzling	
Cuttack	29.83	757.8	29.92	759.9	79.0	26.1	81	calm	0	0			10			0.25	6.4	overcast	
Calcutta, Alipore	29.90	759.5	29.92	760.0	79.0	26.1	64	nnw.	4.0	1.8			10		w.	0	0	overcast	
Dhubri	29.82	757.3	29.94	760.4	74.0	23.3	86	ne.	4.3	1.9			8	sw.		0	0	d. clouds	
Chittagong	29.81	757.1	29.90	759.4	80.2	26.8	72	e.	1.2	0.5			1			0	0	d. clouds	
Sibsagar	29.62	752.4	29.96	761.2	74.1	23.4	80	ne.	1.0	0.4			4			0	0	d. clouds	
Jeypore	28.48	723.4	29.94	760.3	77.9	25.5	25	ne.	2.8	1.2			0			0	0	blue sky	
Zanzibar	29.94	760.5			81.7	27.6	76	ssw.	2.6	1.2			2	s.		0	0	d. clouds	
ITALIAN.																			
Udine	29.91	759.6	30.32	770.0	60.4	15.8	41	e.	8.7	3.9			8			0	0		Prof. Giovanni Clodig.
Milan	29.82	757.4	30.34	770.5	60.1	15.6	59	se.	2.5	1.1			2	e.		0	0		Prof. G. V. Schiapparelli
Padua	30.21	767.2	30.32	770.0	60.4	15.8	48	ene.	8.1	3.6			5	se.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.39	746.4	30.30	769.5	57.6	14.2	65	se.	2.5	1.1			6			0	0		Prof. F. F. Denza.
Genoa	30.06	763.6	30.26	768.5	65.3	18.5	43	n.	3.1	1.4			6	n.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.41	721.6	30.33	770.4	56.3	13.5	72	w.			4		10			0	0		Prof. D. C. Bruno.
Pesaro	30.26	768.5	30.30	769.7	61.5	16.4	62	ne.	11.2	5.0			6			0	0		Prof. Luigi Guidi.
Florence	29.99	761.7	30.24	768.2	65.5	18.6	49	n.			4		8	e.		0	0		Prof. Costantino Pittei
Leghorn	30.11	764.7	30.19	766.9	65.7	18.7	48	e.	8.1	3.6			9			0	0		Prof. P. Monte.
Rome	30.02	762.5	30.19	766.9	69.1	20.6	46	nw.	0	0			6			0.067	1.7		Prof. P. Tacchini.
Lecce	29.93	760.1	30.18	766.5	66.2	19.0	70	ne.	4.3	1.9			6			0	0		Prof. C. de Giorgi.
Cosenza	29.31	744.4	30.20	767.0	61.9	16.6	64	wnw.	2.5	1.1			4	nw.		0	0		Prof. D. Conti.
Cagliari	29.95	760.6	30.13	765.4	66.2	19.0	63	calm			0		0			0	0		Prof. A. Pacinotti.
Palermo	29.93	760.1	30.17	766.4	67.6	19.8	65	calm	0	0			3			0	0		Prof. G. Caccintore.
Syracuse	30.10	764.5	30.14	765.6	66.9	19.4	70	nne.	11.2	5.0			7	nne.		0.020	0.5		Sig. Vincenzo Giuliano
Sub-series.																			
Naples, S. R	29.67	753.6	30.19	766.7	66.2	19.0	65	n.	1.8	0.8			7			0	0		Prof. F. Brioschi.
JAPANESE.																			
Akita	29.50	749.4	29.53	750.3	57.8	14.3	98	w.			4		10 n			1.799	45.7	raining	H. Hattori.
Awomori	29.42	747.2	29.40	748.3	58.0	14.4	90	nw.	5.3	2.4			10 n			0.058	16.7	raining	K. Ogawa
Hamamatsu	29.58	751.3	29.68	753.8	63.3	17.4	74	nw.			6	0	8 s		sw.	1.701	43.2	cloudy	Sekigawa & Yamazaki.
Kagoshima	29.97	761.2	29.98	761.5	58.0	14.4	68	nw.			2		10 s			0	0	Overcast	G. Miyanohaza.
Kanazawa	29.60	751.8	29.71	754.6	54.0	12.2	98	sw.	6.5	2.9			10 n			2.242	56.9	raining	S. Endo.
Kioto	29.57	751.0	29.74	755.4	60.2	15.7	54	ssw.	5.9	2.6			10 s			0.122	3.1	cloudy	M. Tojima.
Kochi	29.82	757.4	29.84	757.9	58.2	14.6	61	w.	6.9	3.0		0	1 s		nw.	0	0	clear	K. Kusunose.
Miasaka	29.92	759.9	29.94	760.6	56.6	13.7	63	wnw.			2	0	0			0	0	clear	K. Masusaki.
Miyako	29.37	745.9	29.48	748.7	65.7	18.7	95	s.	15.4	6.9			10 n			2.014	66.4	raining	Honno & Nagaaka.
Nagasaki, I. M. Obs'y	29.77	756.1	29.97	761.2	56.1	13.4	70	w.	5.4	2.4		0	3 s			0.070	1.8	clear	S. Takehayasu.
Niigata	29.57	751.1	29.60	751.8	58.9	14.9	86	w.	18.0	8.0			10 n		w.	1.445	36.7	lightrain	Satoo & Tomikawa.
Nobiru	29.43	747.5	29.45	747.9	66.3	19.1	95	s.	26.5	11.9			10 n			1.445	36.7	stormy	Yoslino & Midzushina.
Numazu	29.55	750.0	29.59	751.5	70.3	21.3	81	sw.			8		10 n		sw.	1.941	49.3	light rain	R. Kaneda.
Osaka	29.74	755.3	29.75	755.7	59.5	15.3	86	w.	31.2	13.9			10s;ks		sw.	0.270	6.9	cloudy	H. Omura.
Sakai	29.74	755.4	29.75	755.6	49.6	9.8	76	ssw.			4	0	1 ks		wsw.	0.311	7.9	clear	Yamawchi & Sakamoto.
Shimonoseki	29.73	755.2	29.88	758.9	54.5	12.5	63	wsw.			6	0	8 ks		w.	0.130	3.3	cloudy	S. Sakano.
Tokei Obs'y, Yeddo	29.50	749.2	29.57	751.0	66.8	19.3	92	s.	29.0	13.2			10 n			0.429	10.9	stormy	The Staff.
Wakayama	29.71	754.7	29.76	756.0	60.3	15.7	62	nw.	14.5	6.5		0	0			0.019	0.5	clear	K. Sakai.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	76.6	24.8	63	e.	20.0	8.9		0	4k;ks		ese.	0.02	0.5	fair	The Staff.
MEXICAN.																			
Leon	24.40	619.7	30.13	765.3	54.5	12.5	86	nne.	0.9	0.4		0	1ck;s			0	0	clear	Prof. M. Leal.
Mazatlan	29.73	755.0	29.98	761.6	76.5	24.7	84	nne.	1.6	0.8		3 c	0			0	0	clear	F. Quijano, C. E.
Sub-series.																			
Altata																			H. Diaz Pena.
NETHERLANDS.																			
Flushing	30.32	770.2	30.32	770.2	51.1	10.6		e.			4					0	0		
Groningen	30.31	769.9	30.37	771.3	46.0	7.8		ese.			1					0.008	0.2		
Helder	30.33	770.4	30.33	770.4	48.9	9.4		se.			2					0	0		
Hellevoetsluis	30.33	770.4	30.33	770.4	49.8	9.9	92	e.			1					0	0		
Utrecht	30.29	769.4	30.34	770.6	52.3	11.3	80	e.			2		8			0	0	very cloudy	H. van der Brink.
Sub-series.																			
Batavia, Java	29.85	758.1			79.9	26.6	87	nne.	0	0			4			0	0		Lt J. J. Rodtman, R.D.N.
NORWEGIAN.																			
Bergen	30.29	769.4	30.35	771.0	48.2	9.0	68	sse.	13	6			10			0	0		
Brono	30.00	762.1	30.04	763.1	48.9	9.4	84	ssw.			7		10			0.878	22.3		
Christiania	30.22	767.5	30.37	771.4	36.9	2.7	94	sw.	0	0			10			0	0	light fog	
Gjæsvær	29.67	753.5	29.69	754.1	39.2	4.0		sw.			2		10						
Lodingen	29.71	754.7	29.76	755.9	46.6	8.1	98	wsw.			6		10			1.441	36.6	raining	
PORTUGUESE.																			
Angra, Azores					65.8	18.8	88	ene.	6.3	2.8			6			0.772	19.6		Dr. J. A. Sampaio.
Campo Major																			Dr. A. M. R. dos Santo.
Funchal, Madeira	29.96	761.0	30.05	763.2	70.0	21.1	73	sw.	2.5	1.1			8			0.035	0.9		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.5	30.04	762.9	66.4	19.1	70	ne.	11.9	5.3			2			0.020	0.5		The Staff.
Ponta Delgada, Azores	30.19	766.7	30.20	768.5	69.4	20.8	75	sw.	1.3	0.6			3			0	0		
Saint Paul de Loando	29.71	754.6	29.91	759.7	78.4	25.8	88	w.	1.3	0.6			8			0	0		
San Salvador, Congo	28.08	713.1	29.89	759.3	81.9	27.7	59	ne.			2		10			0.843	21.4		
Serra da Estrella	25.37	644.3	30.11	764.9	48.2	9.0	90	e.	12.5	5.6			10			0.055	1.4	foggy	
RUSSIAN.																			
Akmolinski	28.64	727.5	29.77	756.2	23.9	— 4.5	90	n.	9	4			10 n			0	0		Major K. Lasarew.
Archangel	29.88	758.9	29.90	759.4	27.7	— 2.4	92	ese.	2	1			10					light snow	Capt. Sseliwerstow
Ashurada	30.60	777.2	30.50	774.8	53.6	12.0	67	n.	4	2			10 kn			0.213	5.4		
Astrakhan	30.54	775.8	30.47	773.9	41.4	5.2	36	wnw.	9	4		0	1 s			0	0		Capt. Wisganow.
Baku	30.59	777.0	30.54	775.8	48.6	9.2	60	n.	18	8			9 ks			0	0		
Barnaul	29.28	743.6	29.79	756.6	37.0	2.8	88	sw.	9	4			10			0.401	11.7		Meteorological Obs'y
Bielosersk	29.56	750.9	30.05	763.2	36.9	2.7	89	w.	4	2			10 ks			0.004	0.1		
Dorpat	30.10	764.5	30.35	770.9	42.1	5.6	82	wnw.	11	5			10 n			0	0		Observatory.
Ekaterinburg	28.84	732.6	29.87	758.0	17.1	— 8.3	91	wnw.	9	4			10					snowing	Meteorological Obs'y.
Elisawetgrad	30.14	765.6	30.61	777.5	45.0	7.2	37	ene.	4	2		1 c	0			0	0	light clouds	
Irkutsk	28.41	721.7	30.12	765.1	30.0	— 1.1	71	se.			2		0			0	0		
Kasalinsk					34.5	1.4	72	sw.	13	6			10 s;n						
Kasan	29.59	751.6	29.87	758.7	32.9	0.5	90	w.	2	1			10			0	0		Observatory.
Kem	29.85	758.1	29.90	759.4	35.2	1.8	93	w.	9	4			10 ks			0.020	0.5		
Kertch	30.39	771.8	30.41	772.4	43.7	6.5	53	ne.	13	6		0	0			0	0		Lagorio & Sastyres.
Kieff	29.88	759.0	30.54	775.8	42.6	5.9	57	w.	7	3		1 c	0			0	0	light clouds	Observatory.
Koslov	29.71	754.5	30.23	767.9	34.5	1.4	89	wsw.	16	7			10 s			0	0		
Libau	30.41	772.4	30.43	773.0	46.6	8.1	77	wnw.	7	3			10			0	0		E. Quaas.
Lugan	30.26	768.7	30.48	774.1	43.5	6.4	36	w.	18	8			2			0	0		Meteorological Obs'y.
Moscow	29.69	754.0	30.18	766.5	39.4	4.1	84	w.	4	2			10 n			0	0		Meteorological Obs'y
Nikolajev	30.50	774.8	30.58	776.6	44.2	6.8	50	ne.	13	6			0			0	0		Capt. Kurdakow.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mts. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
RUSSIAN.—Continued.																			
Nikolaievsk-on-the-Amoor	29.99	761.7	30.08	763.9	27.9	— 2.3	92	calm	0	0			9 k						Iwanow.
Pekin, China	30.07	763.8	30.21	767.4	43.3	6.3	24	nw.	7.8	3.5		0	0			0	0		Physical Observatory.
Petro-Alexandrovsk	30.00	761.9	30.36	771.2	40.6	4.8	44	w.	8.9	4.0		0	3 k			0	0		
Petrozavodsk	29.80	757.0	30.00	762.1	39.0	3.9	82	wnw.	11	5		8 ck	0			0	0		Dr. Bergmann.
Pinsk	30.01	762.2	30.52	775.2	49.1	9.5	57	ssw.	9	4		0	0			0	0		
Poti	30.19?	767.6?	30.22?	767.5?	60.6	15.9	87	calm	0	0		0	6 ks			0	0		
St. Petersburg	30.17	766.4	30.20	767.0	42.4	5.8	87	wnw.	13	6			10 n			inap.	inap.		Central Physical Obs'y.
Samarkand	27.62	701.6	30.07	763.7	60.6	15.9	29	w.	13	6		0	8 n			0.240	6.1		
Semipalatinsk	29.12	739.6	29.78	756.4	46.2	7.9	49	sw.	4	2			10			0	0		Major Lasarew
Sevastopol	30.20	767.0	30.42	772.6	49.8	9.9	40	ne.	27	12		0	1 s			0	0		
Starot Bykhov	29.89	759.1	30.46	773.6	45.3	7.4	66	sw.	11	5		ck	10 s			0	0	light clouds	
Tashkend Laboratory	28.34	719.8	30.00	761.8	57.9	15.4	39	sw.	7	3			10 n			0	0		Terch, A. M
Tiflis	29.10	739.0	30.58	776.7	41.4	5.2	89	sse.	7	3			10			0.323	8.2	light rain	Physical Observatory.
Vernoe	27.32	693.8	29.81	757.2	49.8	9.9	51	calm	0	0		7 cs	0			0.116	0.4		
Viatka	29.12	739.6	29.77	756.1	31.1	— 0.5	100	wnw.	2	1			9			0.055	1.4		
Warsaw	30.04	763.0	30.48	774.2	42.8	6.0	91	sse.	4	2			10 n			0	0	h'vy clouds	Astronomical Obs'y.
Yeniseisk	29.42	747.2	29.71	754.6	35.2	1.8	89	wsw.	11	5			10			0.016	0.4	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.09	764.2	30.19	766.9	65.5	18.6	73	e.	4.9	2.2		0	2			0	0		Antonio Molina.
Bilbao, Met. Obs'y	30.06	763.6	30.12	765.1	69.3	20.7	68	s.	1.8	0.8		3	5	w.		0	0	almost cov'd	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.18	690.4	30.09	764.3	64.4	18.0	57	s.	3.8	1.7			9			0	0	almost cov.	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.3	30.15	765.9	59.2	15.1	87	e.	8.3	3.7			10			0.008	0.2	covered	The Staff.
Murcia, Met. Obs'y	29.98	761.4	30.11	764.8	63.7	17.6	77	ene.	4.9	2.2		5	5	w.		0.028	0.7	rainy	Olayo Diaz, Director
Oviedo	29.36	745.7	30.12	765.0	55.4	13.0	96	s.	4.7	2.1			10 n		w.	0.047	1.2	covered	Prof. L. G. Frades.
Santiago, Met. Obs'y	29.12	739.6	29.99	761.8	70.9	21.6	64	sw.	0.7	0.3			1			0	0	almost clear.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba	29.95	760.8	30.02	762.4	76.4	24.7	89	se.	0.7	0.3		2 ck	4 k	ssw.	s.	0.01	0.2	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.7	29.89	759.1	77.5	25.3	96	ne.	2.2	1.0		0	7 ks		ne.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	758.9	29.98	761.4	72.0	22.2	68	se.	27.0	12.1		5	2	se.	se.	0.02	0.6		Capt. C. Pujazon, R. N
San Juan de Porto Rico, W.I	29.92	760.0	30.01	762.3	78.1	25.6	89	calm	0	0		3 k	6 kn	sw.	sw.	0.465	11.8	raining	Enrique Gadea, Chf Eng
SWEDISH.																			
Haparanda	29.91	759.6	29.95	760.6	39.2	4.0	97	calm			0		10			0	0		
Umea	30.02	762.6	30.08	763.9	47.8	8.8	78	nw.			2		10			0	0		
Hernosand	30.12	765.0	30.17	766.3	47.1	8.4	73	s.			2		10			0	0		
Stockholm	30.15	765.7	30.32	770.2	43.9	6.6	71	wsw			2		0			0	0		
Wisby	30.32	770.0	30.37	771.5	45.3	7.4	74	wnw.			4		10			0	0		
Sub-series.																			
Upsala	30.19	766.8	30.28	769.0	43.9	6.6	81	wsw.	10.7	4.8			4	nnw.		0	0		H.H. Hildebrandesson
SWISS.																			
Geneva	28.88	733.5	30.32	770.2	48.6	9.2	81	nnw.			1		10			0	0	foggy	The Observatory.
TURKISH.																			
Constantinople			30.35	770.8	56.7	13.7	53	ene.	23	10.5			10		ne.	0.012	0.3		The Observatory.
Valona			30.28?	769.1?	70.3	21.3		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			30.00	762.0	78.8	26.0	62	sw.			2		3 k		ssw.	0	0		F. Nimr, B. A., Dir
Samokov, Bulgaria																			Fred L. Kingsbury.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.87	758.7	51.5	10.8	59	sw.	2	0.9			10s;sk			inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.07	738.4	29.74	755.4	35	1.7	89	w.	8	3.6		7 k	0	w.		0.04	1.0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	30.06	763.5	27.0	— 2.8	70	e.	5	2.2		0	0			0	0	clear	J. B. Turton.
Assinnaboine, Ft., Montana	27.46	697.5	30.38	771.6	28	— 2.2	67	sw.	14	6.3		0	0			inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.16	766.1	52.0	11.1	66	nw.	10	4.5		hz.	sk.			0	0	clear	Edward A. Beale.
Atlantic City, New Jersey	29.93	760.2	29.94	760.5	57	13.9	74	s.	9	4.0		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	49	9.4	93	calm	0	0		0	fg.			0	0	clear	Louis Duane.
Baltimore, Maryland	29.92	760.0	29.96	761.0	52	11.1	66	w.	4	1.8		0	fg.			0	0	clear	Geo. W. Feiger.
Barnegat City, New Jersey	29.93	760.2	29.95	760.7	52.0	11.1	72	w.	8	3.6		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.77	730.7	30.39	771.9	32.0	0.0	71	nw.	10	4.5		0	1 s		nw.	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.50	698.5	30.41	772.4	25	— 3.9	42	calm	0	0			10 s			0	0	cloudy	Thomas Morgan.
Bismarck, Dakota																			B. O. Lenoir.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	54.5	12.5	93	w.	12	5.4		0	0			0	0	clear	J. T. Eaker.
Boise City, Idaho	27.45	697.2	30.31	769.9	29	— 1.7	88	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.70	754.4	29.86	758.4	47.4	8.6	63	w.	9	4.0		5 ck	hz.			0	0	fair	O. B. Cole.
Brownsville, Texas	30.02	762.5	30.08	764.0	67.6	19.8	90	calm	0	0		3 cs	0			0	0	clear	John McGlone.
Buffalo, New York	29.06	738.1	29.82	757.4	47	8.3	72	s.	24	10.7		0	9 s		w.	0.03	0.8	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.29	718.6	30.39	771.9	17.2	— 8.2	83	w.	9	4.0		0	0			0.01	0.3	clear	A. Schneider.
Cairo, Illinois	29.83	757.7	30.23	767.8	47.7	8.7	50	n.	8	3.6		0	0			0	0	clear	W. H. Ray.
Canby, Fort, Washington Ter	29.87	758.7	30.07	763.8	47.0	8.3	77	e.	0	2.7		0	3 s		sw.	0	0	clear	O. D. Stewart.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	61.0	16.1	56	sw.	16	7.2		0	3 s			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	56.0	13.3	80	sw.	20	8.9		0	0			0	0	clear	Wm. Bolton.
Cape Mendocino, California	29.35	745.5	30.04	763.0	53.5	11.9	70	n.	15	6.7		0	0			0	0	clear	J. J. McLean.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	67.0	19.4	84	n.	11	4.9		0	8 k		n.	0	0	cloudy	G. W. Davis.
Charleston, S. Carolina	30.07	763.8	30.13	765.3	58.0	14.4	96	ne.	4	1.8			sk.			0	0	dense smoke	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.09	764.3	47.5	8.6	81	sw.	7	3.1		0	fg.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.14	765.5	44.0	6.7	93	sw.	2	0.9		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.32	617.7	30.34	770.6	25.0	— 3.9	65	n.	1	0.4		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.32	744.7	30.02	762.5	39.0	3.9	54	w.	10	4.5		0	0			0	0	clear	Wm. Norrington.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	57	13.9	69	sw.	7	3.1		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.40	746.7	30.06	763.5	49.3	9.6	73	nw.	3	1.3		0	0			0	0	clear	L. Dunne.
Cleveland, Ohio	29.18	741.2	29.92	760.0	44.0	6.7	72	sw.	16	7.2			9 k		w.	0.06	1.5	cloudy	J. B. Newlin.
Columbus, Ohio	29.13	739.9	29.99	761.7	43	6.1	83	nw.	1	0.4		0	fg.			0	0	clear	D. Cuthbertson.
Concho, Fort, Texas	28.22	716.8	30.17	766.3	44.0	6.7	86	nw.	2	0.9		0	1 s			0	0	clear	C. E. King.
Custer, Fort, M. T.	27.22	691.4	30.46	773.7	23	— 5.0	73	s.	4	1.8		2 cs	0	w.		0	0	clear	T. Gibson.
Davenport, Iowa	29.50	749.3	30.16	766.1	37	2.8	61	w.	12	5.4		0	hz.			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.40	645.1	30.26	768.6	43.7	6.5	44	n.	4	1.8		10 cs	0			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.48	723.4	30.27	768.8	37.0	2.8	64	ne.	9	4.0		0	0			0	0	clear	D. Moore.
Deadwood, Dakota	25.71	653.0	30.39	771.9	27.5	— 2.5	77	e.	4	1.8		0	0			0.04	1.0	clear	F. Des Willson.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	54	12.2	80	s.	17	7.6		0	0			0	0	clear	F. W. Mixer.
Denver, Colorado	25.08	637.0	30.34	770.6	36.7	2.6	67	se.	3	1.3			10 s			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.38	746.2	30.30	769.6	35	1.7	79	nw.	6	2.7		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.17	740.9	29.88	758.9	45.1	7.3	93	w.	12	5.4		0	0			0	0	clear	E. R. Brace.
Dodge City, Kansas	27.79	705.9	30.42	772.7	35	1.7	85	nw.	9	4.0		0	0			0	0	clear	J. H. Bryce.
Dubuque, Iowa	29.41	747.0	30.13	765.3	35.2	1.8	56	w.	8	3.6		0	1 s			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.19	741.4	29.95	760.7	36	2.2	69	w.	12	5.4			10 s		w.	0.01	0.3	cloudy	N. B. Conger.
Eastport, Maine	29.60	751.8	29.67	753.6	47.0	8.3	59	sw.	13	5.8		0	0			0.17	4.3	clear	D. C. Murpay.
Elliott, Fort, Texas	27.52	699.0	30.31	769.9	40	4.4	73	ne.	20	8.9		0	0			0	0	clear	J. C. Rickli.
El Paso, Texas	26.51	673.3	30.25	768.3	38.0	3.3	47	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Erie, Pennsylvania	29.16	740.7	29.89	759.2	44	6.7	83	s.	12	5.4			10 s		sw.	0.17	4.3	cloudy	C. A. Shaw.
Escanaba, Michigan	29.11	739.4	29.78	756.4	37.0	2.8	79	w.	11	4.9		0	4 s		nw.	0	0	fair	George Heathcote.
Galveston, Texas	30.10	764.5	30.14	765.5	67.2	19.6	78	se.	5	2.2		0	hz.			0	0	clear	E. O'C. MacInerney
Grand Haven, Michigan	29.20	741.7	29.87	758.7	44.0	6.7	64	nw.	30	13.4		0	8 k		w.	0	0	cloudy	Wm. H. Fallon.

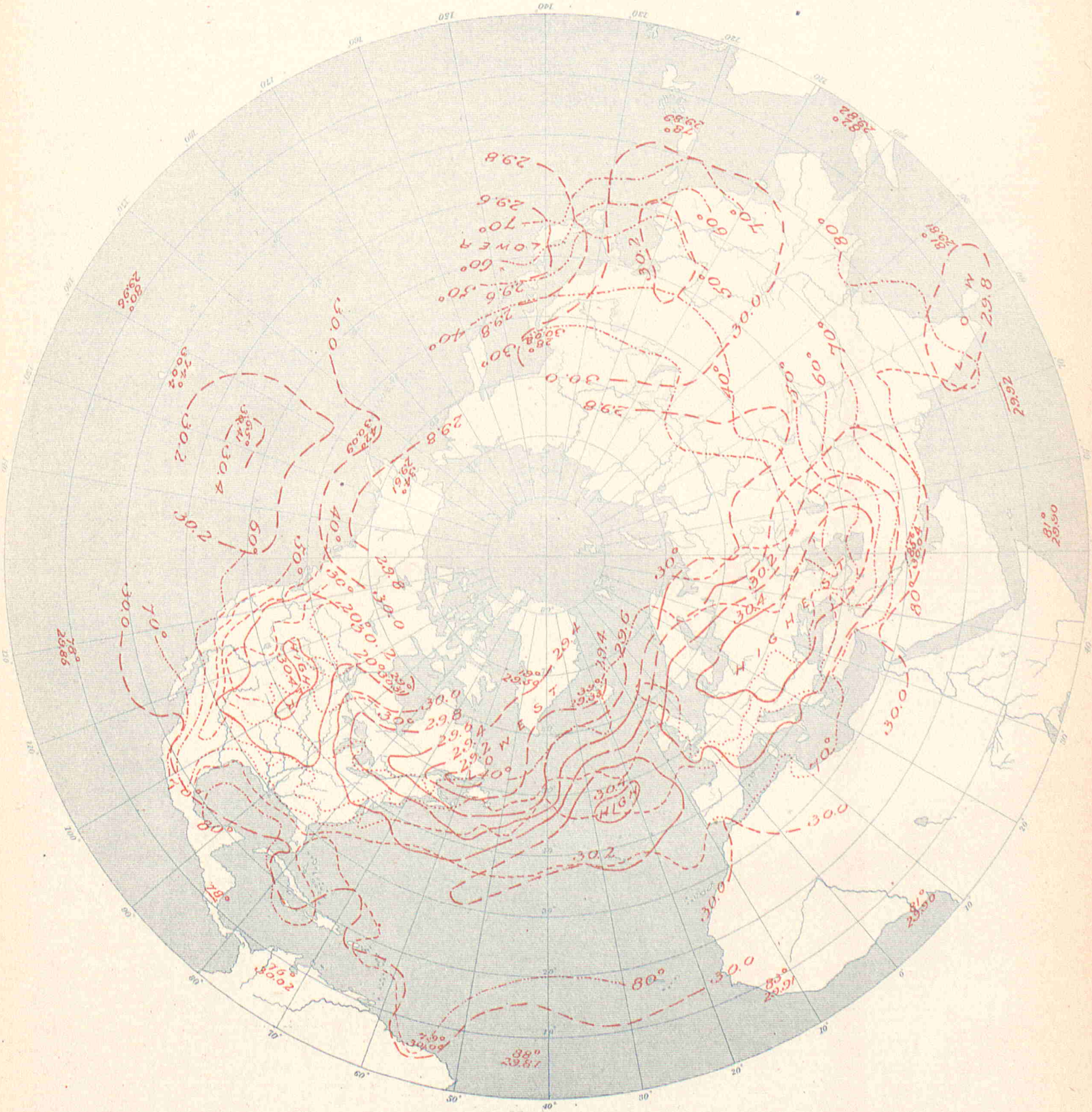
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Grant, Fort Arizona	25.37	644.4	30.07	763.8	48.6	9.2	50	e.	1	0.4		0	0			0	0	clear	Chas. A. Read.
Hatteras, North Carolina	30.11	764.8	30.12	765.0	60.0	15.6	100	nw.	4	1.8		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	26.10	662.9	30.40	772.1	26	— 3.3	77	sw.	4	1.8		0	0			0	0	clear	J. H. Jones.
Huron, Dakota	28.90	734.0	30.33	770.4	30.2	— 1.0	76	w.	8	3.6			10 s		w.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.06	763.5	44.8	7.1	53	calm	0	0		0	0			0	0	clear	C. F. R. Wappenhans.
Indianola, Texas	30.10	764.5	30.13	765.3	70.2	21.2	89	se.	1	0.4		0	0			0	0	clear	I. A. Reed.
Jacksonville, Florida	30.08	764.0	30.12	765.0	62.0	16.7	84	calm	0	0		5 k	0	sw.		0	0	fair	J. W. Smith.
Keokuk, Iowa	29.60	751.8	30.26	768.6	38.0	3.3	61	nw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	29.96	761.0	29.98	761.5	79	26.1	91	s.	9	4.0		3 cs	4 ks	sw.	s	0.96	24.4	fair	A. W. Browne.
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	58	14.4	80	sw.	7	3.1		hz.	0			0	0	clear	Wesley Blake.
Knoxville, Tennessee	29.10	739.1	30.14	765.5	42.6	5.9	98	calm	0	0			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.29	744.0	30.08	764.0	34.5	1.4	65	w.	15	6.7		0	0			0	0	clear	S. C. Emery.
Leavenworth, Kansas	29.48	748.8	30.38	771.6	40	4.4	73	nw	4	1.8		0	0			0	0	clear	T. S. Outram.
Lewiston, Idaho	29.48	748.8	30.33	770.4	34.0	1.1	78	ne.	1	0.4		0	0			0	0	clear	C. E. Butler.
Little Rock, Arkansas	29.82	757.4	30.14	765.5	52.0	11.1	80	nw.	3	1.3		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.05	763.3	51	10.6	66	ne.	4	1.8		0	0			0	0	clear	T. S. Collins.
Louisville, Kentucky	29.52	749.8	30.09	764.3	49.0	9.4	56	nw.	10	4.5		0	0			0	0	clear	L. M. Dey.
Lynchburg, Virginia	29.31	744.5	30.00	762.0	49.5	9.7	67	s.	1	0.4		0	0			0	0	clear	Jno. Healy.
Mackinaw City, Michigan	29.04	737.6	29.71	754.6	42.0	5.6	57	w.	25	11.2		0	8 s		w.	inap.	inap.	cloudy	D. B. Notson.
Macon, Fort, North Carolina	30.12	765.0	30.13	765.3	63.0	17.2	97	w.	4	1.8		0	fg.			0	0	clear	William Daly.
Maginnis, Fort, Montana	25.80	655.3	30.34	770.6	22	— 5.6	73	nw.	3	1.3		0	0			inap.	inap.	clear	F. Burke.
Marquette, Michigan	28.99	736.3	29.73	755.1	38.0	3.3	72	w.	12	5.4			10 s		w.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.16	766.1	52	11.1	86	nw.	3	1.3		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.96	761.0	37.0	2.8	61	w.	21	9.4		0	0			0	0	clear	W. Line.
Mobile, Alabama	30.14	765.5	30.18	766.6	54.6	12.6	83	n.	4	1.8		0	0			0	0	clear	H. U. Jones.
Montgomery, Alabama	29.95	760.7	30.18	766.6	50	10.0	93	calm	0	0		0	fg.			0	0	clear	Geo. E. Franklin.
Moorhead, Minnesota	29.18	741.2	30.20	767.1	27	— 2.8	88	w.	14	6.3		0	0			0	0	clear	H. Bessant.
Mt. Washington, N. H.	23.45	595.6	29.79	756.7	21.3	— 5.9	100	w.	36	16.1			fg.		w.	0.25	6.3	dense fog	S. W. Beall.
Nashville, Tennessee	29.55	750.6	30.13	765.3	53.0	11.7	86	w.	6	2.7		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.79	756.7	29.91	759.7	48.5	9.2	74	w.	6	2.7		5 ok	0			0	0	fair	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	53	11.7	72	sw.	3	1.3		2 k	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.12	765.0	30.17	766.3	63.0	17.2	81	n	4	1.8		0	0			0	0	clear	M. Herman.
New York, New York	29.75	755.6	29.93	760.2	51.0	10.6	66	sw.	3	1.3		0	2 s			0	0	clear	H. J. Penrod.
Norfolk, Virginia	30.02	762.5	30.05	763.3	59.5	15.3	52	sw.	5	2.2		0	0			0	0	clear	Wm. Davis.
North Platte, Nebraska	27.46	697.5	30.42	772.7	31.6	— 0.2	78	nw.	8	3.6		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.11	764.8	30.15	765.8	36.0	2.2	89	calm	0	0		0	0			0	0	clear	J. Dascomb.
Omaha, Nebraska	29.19	741.4	30.39	771.9	35.0	1.7	73	nw.	6	2.7		0	0			0	0	clear	A. Pollak.
Oswego, New York	29.47	748.5	29.80	756.9	48.0	8.9	59	s	6	2.7			10 s		w.	0.02	0.5	cloudy	J. G. Linsley.
Palestine, Texas	29.63	752.6	30.19	766.8	51.5	10.8	90	s.	4	1.8		4 cs	0	sw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	57.3	14.1	72	nw.	7	3.1		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	29.84	757.9	29.94	760.5	51.8	11.0	81	sw.	4	1.8		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.92	455.2	30.20	767.1	13	—10.6	64	n.	26	11.6		0	0			0	0	clear	H. Hall.
Pittsburg, Pennsylvania	29.14	740.1	29.96	761.0	47.5	8.6	70	nw.	4	1.8		9 os	0	w.		0	0	cloudy	G. O. Schaeffer.
Poplar River					16	— 8.9	87	w.			1	0	0			0.03	0.8	clear	
Port Huron, Michigan	29.11	739.4	29.80	756.9	39.0	3.9	82	sw.	10	4.5		0	0			0	0	clear	M. H. Perry
Portland, Maine	29.73	755.1	29.78	756.4	49	9.4	56	w.	11	4.9		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	40.6	4.8	90	w.	2	0.9		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.																			F. P. Chaffee.
Prescott, Arizona	24.93	633.2	30.09	764.3	28.3	— 2.1	69	sw.	3	1.3		0	0			0	0	clear	N. D. Lane.
Provincetown, Mass.	29.86	758.4	29.89	759.2	52.1	11.2	59	w.	8	3.6		1 c	0	w.		0	0	clear	C. N. Kitchel.
Red Bluff, California	29.74	755.4	30.10	764.5	48	8.9	86	n.	5	2.2		0	0			0	0	clear	J. R. Williams.
Rio Grande City, Texas	29.92	760.0	30.16	766.1	62.0	16.7	87	calm	0	0		0	fg.			0	0	clear	Fred. Belford.
Rochester, N. Y.	29.15	740.4	29.82	757.4	44.5	6.9	74	sw.	16	7.2			10 s		sw.	0	0	cloudy	E. W. McCann.
Roseburg, Oregon	29.56	750.8	30.12	765.0	43.6	6.4	92	calm	0	0			fg.			0	0	dense fog	J. J. Nanry.
Sacramento, California	30.00	762.0	30.08	764.0	48.2	9.0	95	se.	1	0.4		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.63	752.6	30.25	768.3	45.0	7.2	63	nw.	10	4.5		0	sk.			0	0	clear	J. H. Weber.
St. Michael, Fort, Alaska	29.58	751.3	29.61	752.1	34	1.1	100	s.	12	5.4			10 s			0.16	4.1	cloudy	Fred. H. Clarke.
St. Paul, Minnesota	29.24	742.7	30.11	764.8	32.0	0.0	60	w	8	3.6		2 cs	0			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.24	742.7	30.14	765.5	24	— 4.4	73	nw.	1	0.4		0	0			0.04	1.0	clear	C. B. Dilley.
Salt Lake City, Utah	25.90	657.8	30.30	769.0	35.3	1.8	56	se.	3	1.3		0	0			0	0	clear	J. Craig.
San Diego, California	29.95	760.7	30.02	762.5	51.4	10.8	86	e.	1	0.4		0	0			0	0	clear	F. R. Day.
Sanford, Florida	30.01	762.2	30.06	763.5	70.0	21.1	92	nw.	2	0.9		0	8 ks		nw.	0.06	1.5	cloudy	J. B. Marbury.
Sandusky, Ohio	29.25	742.9	29.94	760.5	45	7.2	76	w.	13	5.8		5 ok	0	w.		0	0	fair	B. F. Hough.
Sandy Hook, New Jersey	29.88	758.9	29.92	760.0	53.0	11.7	66	sw.	10	4.5		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.99	761.7	30.06	763.8	54.0	12.2	93	n.	2	0.9		0	fg.			0	0	clear	N. Gorom.
Savannah, Georgia	30.06	763.5	30.15	765.8	54.5	12.5	84	nw.	3	1.3		0	hz.			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.61	675.9	30.31	769.9	30	— 1.1	80	w.	20	8.9		0	6 s			0	0	fair	S. W. Morrison.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	48.4	9.1	91	s.	6	2.7		3 c	0	w.		0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory																			W. M. Matthews.
Sitka, Alaska	29.74	755.4	29.81	757.2	30.5	— 0.8	62	nw.	7	3.1		0	0			0.05	1.3	clear	F. W. Fickett.
Smith, Fort, Arkansas	29.76	755.9	30.24	768.1	47.0	8.3	93	calm	0	0		0	fg.			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.10	764.5	30.14	765.5	53.5	11.9	84	nw.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.25	717.5	30.33	770.4	32	0.0	71	n.	1	0.4		0	0			0	0	clear	John F. Hemenway.
Springfield, Illinois	29.54	750.3	30.23	767.8	40	4.4	73	nw.	7	3.1		0	0			0	0	clear	T. B. Jennings.
Stockton, Fort, Texas	27.15	689.6	30.18	766.6	51.0	10.6	43	nw.	1	0.4		6 cs	0			0	0	fair	Louis Dorman.
Tatoosh Id., Wash. Ter.	29.91	759.7			43.5	6.4	88	e.	16	7.2			10 s		e.	0.38	9.7	cloudy	R. Connor.
Thomas, Camp, Arizona	27.48	698.0	30.18	766.6	32	0.0	43	s.			1	0	0			0	0	clear	R. C. Lord.
Toledo, Ohio	29.22	742.2	29.92	760.0	48.8	9.3	51	w.	14	6.3		0	4 k		w.	0	0	fair	A. Buell.
Unalaska, Alaska	30.07	763.8	30.09	764.3	42	5.6	82	s.	12	5.4			10 n			0.06	1.5	light rain	Samuel Applegate.
Verde, Fort, Arizona																			L. B. Montgomery.
Vicksburg, Mississippi	29.92	760.0	30.18	766.6	52.6	11.4	75	s.	3	1.3		0	hz.			0	0	clear	James Keneally.
Washakie, Fort, Wyoming																			T. M. Ambler.
Washington, D. C.	29.87	758.7	29.99	761.7	50.5	10.3	82	se.	3	1.3		0	0			0	0	clear	T. B. Harrison.
West Las Animas, Colorado	26.44	671.6	30.37	771.4	26	— 3.3	67	w.	4	1.8		0	0			0	0	clear	F. H. Brandenburg.
Wilmington, N. Carolina	30.09	764.3	30.15	765.8	57.0	13.9	80	calm	0	0		0	0			0	0	clear	Samuel A. Haney.
Yankton, Dakota	29.01	736.8	30.34	770.6	30.7	— 0.7	82	w.	6	2.7		0	0			0	0	clear	E. H. Thompson.
Yuma, Arizona	29.86	758.4	30.02	762.5	52.4	11.3	43	ne.	3	1.3		0	0			0	0	clear	W. S. Delano
Sub-series.																			
Bluefields, Nicaragua					78	25.6		nw.			2	1 c	5 ks		ne.	0.25	6.3	rainy	W. H. Jackson.
Bogota, U. S. C.	22.03	559.5			53.6	12.0	71	sw.	2	0.9			10 s		w.	0	0		Joaquin Gomez.
Kingston, Jamaica, W. I.			30.01	762.2	74.1	23.4	82	n.	2	0.9		0	1 s			0	0	clear	Robert Johnstone.
Paramaribo, S. A.	30.03	762.7	30.04	763.0	79	26.1	82	e.			2	5 ck	5 k	e.		0.030	0.8		Dr. C. J. Herm.
Puerto Berrio, U. S. C.	29.46	748.3	30.02	762.5	76	24.4	89	calm			0		fg.			0.50	12.7	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					78	25.6	89	ne.			1		5 ks		ne.	0	0	fair	Earl Flint.
York Factory, B. A.	30.26	768.6	30.31	769.9	28.5	— 1.9	91	e.	13	5.8		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
District No. 1—North Atlantic.																		
H. M. S. Alexandra, N. 38° 26′, E. 27° 09′	30.10	764.5	71	21.7	53	nne.			2		1	nne.						blue sky.
H. M. Dockyard, Bermuda, Atlantic	30.11	764.8	74.5	23.6	86	ssw.			2		6	ssw.						d. clouds.
H. M. S. Flamingo, N. 33° 52′, W. 63° 20′	30.12	765.0	76	24.4	82	ssw.			6		2	wnw.				2	wsw.	d. clouds.
H. M. S. Iris, Port Said, Egypt	30.07	763.8	74	23.3	72						5							d. clouds
H. M. S. Opal, mouth of Niger river, W. Africa	29.90	759.4	81	27.2	87	ssw.			3		6	ssw.						d. clouds.
H. P. M. S. Douro, St. Thomas, Gulf of Guinea	29.90	759.4	76.1	24.5	88	ssw.			2		8			4 h'r	4 h'r	2	se.	threatening.
U. S. Navy Yard, Portsmouth, N. H*	29.77	756.1	46	7.8	77	wsw.	8	3.6			0			0	0			clear.
U. S. S. Jamestown, Newport, R. I.	29.89	759.2	52	11.1	73	wsw.			2		5							fair?
U. S. S. Kearsarge, N. 37° 21′, E. 2° 25′	30.15	765.8	69	20.6	75	ene.			4		2		ene.			sm'h		fair.
U. S. S. Lancaster, N. 37° 18′, E. 3° 00′	30.13	765.3	71	21.7	95	e.			4		2		e.			mod	e.	fair.
U. S. S. New Hampshire, Newport, R. I*	29.88	758.9	54	12.2	61	sw.			4		0					sm'h		clear.
U. S. S. Powhatan, Boston, Mass.	29.84	757.9	46	7.8	84	wsw.			1		8							cloudy.
U. S. S. Quinnebaug, Leghorn, Italy	30.24	768.1	66	18.9	59	ene.			2		10		ne.					cloudy.
U. S. S. Saratoga, Poughkeepsie, N. Y.	29.90	759.4	49	9.4	78	se.			2		8		se.	light	light	sm'h	se.	cloudy.
U. S. S. Swatara, Port au Prince, Hayti, W. I.	29.98	761.5	80	26.7	82	calm			0		0			0	0	sm'h		clear.
U. S. S. Vandalia, New York, N. Y.	29.97	761.2	52	11.1	79	w.			1		2							fair.
S. S. British Crown, N. 43° 31′, W. 53° 36′†	29.78	756.4	63	17.2		wsw.			5					6 h'r	6 h'r	h'vy	w.	fine.
S. S. British Prince, N. 49° 45′ W. 37° 32′*†	29.76	755.9	53	11.7		s.			8		10		ssw.	1 h'r	1 h'r	h'vy	con.	squally.
S. S. Ohio, N. 39° 18′, W. 72° 56′†	30.00	762.0	58	14.4	94	sw.			3		0			0	0	sm'h	sw.	clear.
S. S. Prussian, Glasgow, Scotland	30.20	767.0	54	12.2		se.			3		9		wnw.					misty.
S. S. Scandinavian, N. 53° 59′, W. 28° 10′*	30.09	764.3	43	6.1		wsw.			7		7		wsw.	sh'rs	sh'rs	cross	var.	showery.
S. S. Sardinian, N. 55° 19′, W. 44° 53′			37	2.8		ese.			8		10			6 h'r	6 h'r	r'gh	se.	overcast.
S. S. Alvo, off Gonave Id, Hayti, W. I.*	29.95	760.7	80	26.7		ene.			5–6		6		ene.	0	0	sll't	e.	fine.
S. S. Andes, N. 30° 28′, W. 68° 40′*†	30.15	765.8	79	26.1		s.			2		5?					sm'h	s.	cloudy?
S. S. Ailsa, Kingston, Jamaica, W. I.			77	25.0	95	calm			0		0			0	0	sm'h		clear.
S. S. Avilla, San Juan, Porto Rico, W. I*†	30.05	763.3	78	25.6		calm			0		7			rain	rain	sm'h		
S. S. Devonia, N. 44° 18′, W. 52° 04′*†	29.75	755.6	52	11.1		ssw.			5		0					h'vy	sw.	hazy.
S. S. Dorian, Boston, Mass.	29.86	758.4																
S. S. Ethiopia, N. 51° 30′, W. 33° 00′†	30.07	763.8	50	10.0	86	ssw.			6		10		sw.	rain	rain	7	con.	overcast.
S. S. Galatia, N. 31° 49′, E. 31° 03′†	30.02	762.5	76	24.4	95	nw.			2		4		nnw.	0	0			
S. S. Llandaff City, N. 42° 13′, W. 55° 58′						w.			6		4		w.	0	0	long	w.	fine.
S. S. Gallia, N. 48° 41′, W. 31° 51′			52	11.1	93	sw.			5–6		1		sw.	0	0	mod	sw.	fair.
S. S. Pavonia, N. 48° 26′, W. 32° 30′			53	11.7	80	ssw.			4		6		sw.	2 h'r	2 h'r	mod.	s.	
S. S. Samaria, off Hollyhead, Wales	30.30	769.6	53	11.7		se.			3		10			0	0	sm'h		cloudy.
S. S. Canada, N. 48° 50′, W. 41° 00′*			51.8	11		sw.			6		10		sw.	0	0	h'vy	sw.	hazy.
S. S. France, N. 40° 30′, W. 70° 31′*†	29.94	760.5	59.0	15.0		s.					0			0	0	sm'h	w.	clear.
S. S. Olinde Rodrignes, N. 10° 40′, W. 63° 15′*†	29.90	759.4	86	30.0		calm			0		0			0	0	mod.	ne.	clear.
S. S. Wisconsin, N. 51° 16′, W. 30° 30*†	30.17	766.3	52	11.1		sw.			5		3		sw.	4 h'r	4 h'r	med.	w.	clear.
S. S. Wyoming, N. 41° 09′, W. 67° 00′	29.98	761.5	56	13.3		wsw.			5		0			0	0	mod.	sw.	clear.
S. S. Frisia, N. 48° 48′, W. 34° 28′	30.17	766.3	55	12.8		ssw.			5		8		w.	0	0	cross	ssw.	cloudy.
S. S. Gellert, N. 41° 02′, W. 68° 16′			58	14.4	88	w.			5		1?			0	0	r'gh	w.	cloudy.?
S. S. Lessing, N. 47° 55′, W. 39° 50′	29.80	756.9	64	17.8		ssw.			9		10		ssw.			h'vy	ssw.	misty.
S. S. Westphalia, New York, N. Y.	29.97	761.2	50	10.0	86	wsw.			6		1		wsw.	0	0			fair.
S. S. Rhaetia, N. 44° 08′, W. 55° 00′	29.67	753.6	54	12.2	93	wsw.			8		0			0	0	hv'y	wsw.	clear.
S. S. Nessmore, N. 49° 28′ W. 35° 29′			56	13.3	94	s.			9		10		sw.	0	0	high	wsw.	cloudy.
S. S. Bulgarian, N. 44° 05′ W. 53° 53′	29.81	757.2				wsw.			6					8 h'r	8 h'r	high	wsw.	
S. S. Virginian, N. 47° 51′, W. 38° 18′*	29.91	759.7	57	13.9		ssw.			10				ssw.	4 h'r	4 h'r	h'vy	ssw.	cloudy.
S. S. Hevelius, N. 41° 42′ W. 13° 15′	30.24	768.1	63	17.2		nw.			4				wnw.	0	0	sm'h		cloudy.
S. S. Sirius, N. 33° 05′, W. 69° 15′	30.11	764.8				ene.			2		8		nne.	4 h'r	4 h'r	irreg.		cloudy
S. S. Rio Grande, N. 27° 24′, W. 79° 47′†	30.05	763.3	81	27.2		se.			2		9		e.	8 h'r	8 h'r	mod.	se.	cloudy.
S. S. Lampassas, N. 29° 40′ W. 78° 45′			84	28.9		sw.			5		4		se.	4 h'r	4 h'r	sm'h		cloudy.
S. S. Chalmette, New York, N. Y.			53	11.7		w.			4		3		sw.	0	0			clear.
S. S. New York, N. 24° 40′ W. 80° 30′*†	30.04	763.0	80	26.7		se.			4		10		var.	10 h'r	10 h'r	sm'h		cloudy.
S. S. Alleghany, N. 38° 15′, W. 75° —′†	30.05	763.3	61	16.1		wsw.			3		0			0	0	light		clear.
S. S. Archimede, Gibralter, Mediterranean †	30.03	762.7	74	23.3		ese.			6		6		ese.	0	0	h'vy	ese.	cloudy.
S. S. City of Washington, N. 21° 16′, W. 90° 02′*†	30.00	762.0	85	29.4		ne.			2				ne.	0	0	sm'h		fine.
S. S. Cienfuegos, N. 32° 10, W. 75° 15′			73	22.8		e.			3		4		e.	3 h'r	3 h'r	gentle	ese.	fine.
S. S. Grecian, Liverpool, Eng.	30.31	769.9	55	12.8	93	se.			2		10		se.	0	0			hazy.
S. S. England, off Fastnet, Ireland	30.14	765.5				se.			4		10		se.	8 h'r	8 h'r	mod.	se.	overcast.
S. S. Erin, New York, N. Y.			55	12.8		sw.			3		5		sw.	0	0			hazy.
S. S. Holland, N. 44° 45′ W. 40° 20′	30.10	764.5	63	17.2		ssw.			7		10		ssw.	2 h'r	2 h'r	high	ssw.	raining.
S. S. America, Dungeness, Eng*	30.21	767.3	58.0	14.4	88	e.			4		10		se.	0	0	sm'h	se.	cloudy.
S. S. Elbe, N. 50° 05′, W. 21° 06′	30.39	771.9	53.6	12.0	88	nw.			5–6		4		nnw.	0	0	high	var.	fair.
S. S. Gen. Werder, N. 49° 56′, W. 7° 55′	30.24	768.1				se.			2		4		se.			sm'h	se.	hazy.
S. S. Hermann, N. 49° 00′, W. 31° 01′			54.5	12.5	100	wsw.			7		6		w.	2 h'r	2 h'r	high	w.	squally.
S. S. Orinoco, New York, N. Y.	29.97	761.2	58	14.4		sw.			3		0			0	0			clear.
S. S. Main, N. 43° 47′ W. 56° 36′	29.70	754.4	53.6	12.0		w.			8		3		w.	6 h'r	6 h'r	h'vy	w.	clear.
S. S. Neckar, N. 45° 01, W. 51° 06′	29.68	753.9	51.0	10.6	86	var.			4–8		9?		sw.	rain	rain	h'vy	sw.	clear?
S. S. Rhein, N. 46° 30′, W. 38° 41′						s.			8		8		s.	4 h'r	4 h'r	h'vy	s.	raining.
S. S. Weser, N. 47° 14′, W. 27° 45′	30.44	773.2	57.2	14.0		s.			1		0			¼ h'r	¼ h'r	sm'h		clear.
S. S. City of Augusta, Savannah, Ga †	30.18	766.0				ene.			3		4		e.					fair
S. S. Muriel, N. 21° 15′, W. 64° 20′			80	26.7		e.			3		0			4 h'r	4 h'r	r'gh	e.	clear.
S. S. Rhynland, N. 42° 34′, W. 62° 00′	29.80	756.9	54	12.2		nw.			7		2		nw.	4 h'r	4 h'r	high	w.	clear
S. S. Pennland, N. 49° 41′, W. 24° 35′†	30.32	770.1	51	10.6	79	w.			6		8?		w.	6 h'r	6 h'r	h'vy	w.	clear?
S. S. Switzerland, N. 50° 13′ W. 7° 27′						se.			1		10		se.	4 h'r	4 h'r	sm'h		light rain.
S. S. Vaderland, N. 45° 10′, W. 44° 50′			62	16.7		wsw.			8		10		w.	10 h'r	10 hr	high	sw.	raining.
S. S. Waesland, N. 44° 31′, W. 52° 50′	29.80	756.9	55	12.8		wsw.			8		0			2 h'r	2 h'r	high	w.	clear.
S. S. P. Caland, N. 43° 16′, W. 57° 45′	29.64	752.8	56.8	13.8	73	sw.			7		0					7	sw.	clear.
S. S. Schiedam, N. 46° 29′, W. 47° 34′	29.59	751.6	57.4	14.1	83	sw.			6		1			0	0	h'vy	ssw.	clear.
S. S. Caracas, N. 18° 08′, W. 67° 48′*†	30.01	762.2	83	28.3	87	ne.			3		2		ne.	¾ h'r	¾ h'r	mod	ne.	clear.
S. S. W. A. Scholten, Waterweg, Netherlands	30.38	771.6	53.6	12.0	88	ese.			2		10		ese.					
S. S. Valencia, N. 25° 48′, W. 69° 59′*†	30.00	762.0	80	26.7	82	ne.			3		7		se.	1 h'r	1 h'r	h'vy	ene.	squally.
S. S. State of Georgia, N. 53° 55′ W. 26° 52′ †	30.19	766.8	48	8.9		w.			7		3		w.	0	0	rg'h	w.	squally.
S. S. State of Indiana, N. 48° 43′, W. 43° 30′*†	29.45	748.0	50	10.0		sw.			7		4		sw.	11 h'r	11 h'r	high	sw.	fair.
S. S. State of Alabama, N. 30° 30′, W 56° 25′*†	30.20	767.1	74	23.3		ne.			1		1		ne.	0	0	sm'h	ne.	clear.
S. S. Thingvalla, Copenhagen, Denmark †	30.54	775.7	44.6	7.0		calm			0		10			0	0			foggy.
S. S. Romano, off Dungeness, Eng			53	11.7		e.			3		10			0	0	sm'h		hazy.
S. S. Salerno, New York, N. Y. †	29.95	760.7	52	11.1		sw.			1		0			0	0			clear.
S. S. Dominion, N. 55° 06′ W. 34° 05′*†	29.85	758.2	48	8.9		ssw.			5		10		ssw.			mod.	ssw.	cloudy.
S. S. Oregon, Montreal, Canada	29.61	752.1	47	8.3		w.			5		2		w.			mod.	ne.	fine.
S. S. Quebec, Liverpool, Eng	30.22	767.6	48	8.9		s.			2		10		s.	0	0			overcast.
S. S. Texas, N. 32° 35′, W. 39° 55′*†	30.05	763.3	76	24.4	82	e.			5		3?		se.	0	0	light	nw.	cloudy.?
S. S. Lake Manitoba, N. 55° 02′, W. 5° 40′			56	13.3		s.			5		10		s.	0	0	mod.	sw.	hazy.
S. S. Olbers, N. 52° 00′, W. 18° 09′	30.25	768.3				nw.			5		6		nnw.	2 h'r	2 h'r	r'gh	var.	squally.
S. S. Daniel Steinmann, N. 47° 33′, W. 33° 04′†	30.28	769.1	56	13.3		wsw.			4		0			2 h'r	2 h'r	long	wnw.	clear.
S. S. Plantyn, N. 44° 16′, W. 53° 14′									6		5		ssw.	5¼ h'r	5¼ h'r	long	ssw.	gale.
S. S. Britannic, N. 44° 40′ W. 46° 20′	29.86	758.4	57	13.9		s			6		3		nw.	0	0	high	w.	d. clouds
S. S. Celtic, N. 43° 26′, W. 58° 11′			62	16.7		wnw.			5		2		w.	5 h'r	5 h'r	h'vy	w.	clear.
S. S. Iowa, N. 42° 39′, W. 66° 52′†	29.86	758.4	54	12.2		w.			4		0			0	0	r'gh	w.	clear.
Bk. Arda, N. 20° 19′, W. 71° 40′						e.			2		4		e.	0	0	mod	e.	clear.
Bk. Ariadne, N. 54° 24′, E. 18° 39′	30.47	773.9	43	6.1	92	n.			1		2		n.	0	0			clear.
Bg. Abbie Clifford, Fort de France, Martinique, W. I.	29.98	761.5	82	27.8		ene.			2		3		ne.	0	0			
Schr. Arthur Burton, N. 36° 19′, W. 74° 02′ †	30.11	764.8				sw.			1		1		sw.	0	0	sm'h	ne.	clear.
S. S. Antonio Lopez, Barcelona, Spain*	30.22	767.6	65	18.3	76	e.			3		2			0	0			clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 1—North Atlantic.—Continued.																		
Bg. Alcira Maracaybo, Venezuela	29.98	761.5	86	30.0	.....	e.	.....	.....	1	.....	4	.....	e	0	0	.....	.....	clear.
Bgt. Achsah, N. 33° 06′, W. 61° 00′†	30.08	764.0	76	24.4	.....	ssw.	.....	.....	3	.....	4	.....	sw.	0	0	mod.	sw.	fair.
Schr. Adda Doane, Mayaro Bay, Trinidad *†	29.99	761.7	.....	.....	.....	nne.	.....	.....	2	.....	4	.....	ne.	1 h'r	1 h'r	sm'h	.....	fair.
Bg. Belle of the Bay, Pascagoula, Mississippi	30.05	763.3	.....	.....	.....	n	.....	.....	4	.....	1	.....	e.	0	0	.....	.....	clear.
Schr. Clotilde, Tampico Bar, Mexico†	30.06	763.5	76	24.4	.....	sw.	.....	.....	2	.....	5	.....	w.	0	0	long	ne.	fair.
Schr. C. R. Flint, N. 19° 21′, W. 81° 04′†	29.99	761.7	82	27.8	.....	ne.	.....	.....	3	.....	4	.....	ne.	0	0	sm'h	ne.	fair
S. Carondelet, N. 28° 43′, W. 34° 03′*†	30.05	763.3	.....	.....	.....	se.	.....	.....	5	.....	2	.....	se.	3 h'r	3 h'r	mod.	sse.	clear.
S. David Stewart, N. 36° 23′, W. 69° 04′	.....	.....	69	20.6	.....	nnw.	.....	.....	5	.....	5	.....	nnw.	.....	.....	mod.	nnw.	fair.
S. David Crockett, N. 5° 52′, W. 43° 45′*	29.87	758.7	88	31.1	74	nne.	.....	.....	2	.....	3	.....	ne.	0	0	.....	.....	blue sky.
S. E. J. Spicer, New York, N. Y.	29.94	760.5	60	15.6	82	wsw.	.....	.....	6	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. E. D. Bigelow, N. 26° 56′, W. 85° 27′	.....	.....	83	28.3	.....	ne.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. Fish. Com. S. S. Fish Hawk, Washington, D. C.†	29.97	761.2	54	12.2	94	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Galeon, N. 33° 20′, W. 78° 00′†	30.10	764.5	74	23.3	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	se.	blue sky.
Bk. Hattie G. McFarland, Barbadoes, W. I†	29.98	761.5	80	26.7	.....	calm	.....	.....	0	.....	4	.....	se.	2 h'r	2 h'r	.....	.....	fine.
Bk. Heinrich & Tonio, N. 42° 35′, W. 43° 20′ †	30.14	765.5	63	17.2	.....	ssw.	.....	.....	5	.....	10	.....	sw.	0	0	mod.	var	cloudy.
Schr. Isabel Alberto, N. 39° 55′, W. 73° 48′	.....	.....	.....	.....	.....	sw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
Schr. Jennie N. Huddell, Philadelphia, Pa†	29.95	760.7	60	15.6	94	s.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Bg. John Wesley, N. 12°, 26′, W. 47° 38′	.....	.....	83	28.3	.....	ene.	.....	.....	1	.....	4	.....	.....	0	0	mod.	ne.	fair.
Bk. John H. Pearson, N. 18° 36′, W. 42° 28′	.....	.....	.....	.....	.....	nne.	.....	.....	1	.....	.....	.....	nne.	3 h'r	3 h'r	short	se.	cloudy.
Schr. John Bracewell, Kennebec River, Maine †	29.75	755.6	.....	.....	.....	wsw.	.....	.....	5	.....	1	.....	wsw.	0	0	.....	.....	clear.
Bg. Josefa, N. 31° 15′, W. 73° 40 †	30.13	765.3	.....	.....	.....	se.	.....	.....	1	.....	8	.....	ssw.	4 h'r	4 h'r	short	sw.	cloudy.
Bg. L. & W. Armstrong, N. 23° 01′, W. 61° 15′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	5	.....	1	.....	ese.	½h'r	½h'r	mod.	ene.	fine.
S. S. Madrid, N. 51° 27′, E. 1° 35′ †	30.26	768.6	54	12.2	87	se.	.....	.....	4	.....	10	.....	.....	3 h'r	3 h'r	sm'h	.....	overcast.
S. S. Mendoza, N. 19° 08′, W. 57° 18′	.....	.....	.....	.....	.....	se.	.....	.....	4	.....	.....	.....	se.	4 h'r	4 h'r	mod.	ne.	rainy.
Schr. Minnie A. Bonsall, Mayport, Fla.†	30.13	765.3	76	24.4	.....	nw.	.....	.....	1	.....	.....	.....	n.	0	0	.....	.....	clear.
Bk. Matthias, N. 49° 16′, W. 9° 53′ *†	30.16	766.1	57.5	14.2	.....	sse.	.....	.....	3	.....	10	.....	s.	1 h'r	1 h'r	3	nw.	foggy
Schr. Norena, Humacao, Porto Rico *†	30.08	764.0	.....	.....	.....	nnw.	.....	.....	1	.....	2	.....	ene.	2 h'r	2 h'r	.....	.....	showery
Bk. National Eagle, N. 35° 54′, W. 7° 15′	.....	.....	.....	.....	.....	ese.	.....	.....	4	.....	5	.....	e.	3 h'r	3 h'r	rg'h	ese.	drizzling.
S. Rudolph, N. 49° 19′, W. 5° 15′*	30.20	767.1	53.0	11.7	.....	se.	.....	.....	5	.....	9	.....	se.	0	0	mod.	w.	hazy.
Schr. Rollin Sanford, Key West, Fla†	29.99	761.7	.....	.....	.....	s.	.....	.....	2	.....	8	.....	s.	light	light	.....	.....	clearing.
Bg. Rising Sun, San Juan, Porto Rico†	29.97	761.2	83	28.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Saga, N. 49° 50′, W. 3° 50′*†....	30.17	766.3	56	13.3	.....	.....	.....	.....	4-5	.....	9	.....	.....	0	0	sm'h	ese.	foggy.
S. Salisbury, N. 37° 02′, E. 17° 09′	30.12	765.0	66.0	18.9	91	nne.	.....	.....	2-3	.....	8 kn	.....	nne.	3 h'r	3 h'r	long	var.	cloudy
Bgt. Sunlight, N. 18° 30′, W. 56° 38′ †	30.01	762.2	.....	.....	.....	ene.	.....	.....	5	.....	10	.....	ene.	4 h'r	4 h'r	mod.	ese.	cloudy.
Bk. Samuel B. Hale, N. 5° 50′, W. 27° 15′	.....	.....	.....	.....	.....	nne.	.....	.....	3	.....	.....	.....	n	.....	.....	short	se.	heavy rain.
Bk. Sunbeam, Rotterdam, Holland	30.24	768.1	53	11.7	93	ene.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
Bk. Scud, San Juan, Porto Rico*†	30.00	762.0	82	27.8	.....	ene	.....	.....	5	.....	2	.....	ene.	1 h'r	1 h'r	.....	.....	
S. St. Francis, N. 20° 15′, W. 36° 45′*†	30.12	765.0	79	26.1	.....	sse.	.....	.....	2	.....	3	.....	sse.	0	0	sm'h	ene.	fair.
Bk. St. Lawrence, N. 27° 35′, W. 68° 23′ *†	30.10	764.5	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	ese.	.....	.....	long	nne.	clear.
Bk. Tuck Sing, N. 30° 22′, W. 70° 17′*†	30.10	764.5	.....	.....	.....	ssw.	.....	.....	3	.....	10	.....	w.	0	0	sm'h	.....	cloudy.
Schr. Walter L. Plummer, N. 19° 56′, W. 72° 52′*†	30.00	762.0	.....	.....	.....	e.	.....	.....	1	.....	1	.....	e.	.....	.....	.....	.....	clear
Bk. Pilgrim, N. 17° 52′, W. 51° 20′*†	30.10	764.5	.....	.....	.....	ne.	.....	.....	4	.....	6	.....	ne.	3 h'r	3 h'r	mod.	ne.	fair.
District No. 2—South Atlantic.																		
H. M. S. Amethyst, Montevideo, Uruguay	30.00	762.0	62.2	16.8	82	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
H. M. S. Boudicea, S. 31° 55′, E. 17° 01′	29.98	761.5	64	17.8	94	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	d clouds.
H. M. S. Sylvia, S. 39° 10′, W. 61° 30	29.92	760.0	61	16.1	77	nw.	.....	.....	3	.....	2	calm	.....	.....	.....	2	w.	blue sky.
U. S. S. Brooklyn, S. 35° 14′, E. 7° 48′ *	29.79	756.7	63	17.2	83	wnw.	20	8.9	.....	.....	8	.....	wnw.	0.08	2.0	mod.	nw.	fair.
U. S. S. Nipsic, Buenos Ayres, La Plata *	30.04	763.0	66	18.9	72	ne.	.....	.....	4	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
S. S. Archimedes, S. 3° 42′, W. 32° 17′	29.96	761.0	.....	.....	.....	ese.	.....	.....	3-4	.....	0	.....	.....	0	0	light	ese.	fine.
Bk. Alpheus Marshall, S. 36° 42′, W. 12° 38′*†	29.83	757.7	60	15.6	94	w.	.....	.....	2	.....	6	.....	w.	1½h'r	1½h'r	light	sw.	fair
S. Armenia, S. 52° 50′, W. 52° 50′*	29.47	748.5	48	8.9	86	nne.	.....	.....	5	.....	10	.....	nne.	.....	.....	cross	var.	overcast.
Bk. Bore, Saint Helena, Africa *†	30.51	774.9	69	20.6	.....	ese.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Ceylon, S. 19° 53′, W. 36° 57′†	30.05	763.3	80	26.7	91	nnw.	.....	.....	3	.....	10	.....	.....	.....	.....	long	sw.	drizzling.
S. Dynomene, S. 16° 52′, W. 29° 58′	30.02	762.5	78	25.6	86	ene.	.....	.....	4	.....	4	.....	.....	0	0	high	ssw.	d clouds.
S. Frank N. Thayer, S. 24° 23′, E. 6° 23′*†	30.17	766.3	70	21.1	68	se.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	blue sky.
Bkt. Louise Adelaide, S. 23° 35′, W. 35° 28′†	30.03	762.7	.....	.....	.....	nw.	.....	.....	6	.....	4	.....	w.	2 h'r	2 h'r	long	sw.	fair.
Bk. Rosalie, S. 5° 55′, W. 33° 26′*†	29.96	761.0	.....	.....	.....	ese.	.....	.....	3	.....	0	.....	.....	0	0	light	ese.	clear.
Bgt. Willie, Montevideo, Uruguay*†	29.99	761.7	64	17.8	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Childwall, S. 44° 00′, E. 7° 23′ *	29.32	744.7	50	10.0	.....	nw.	.....	.....	4	.....	10	.....	nw.	6 h'r	6 h'r	sm'h	.....	rain & fog.
District No. 3—North Pacific.																		
H. M. S. Audacious, Kobe Bay, Japan	.....	.....	64	17.8	83	wnw.	.....	.....	4-6	.....	4	w.	.....	.....	.....	3	s.	squally.
H. M. S. Champion, Penang, Malay Peninsula	29.85	758.2	82	27.8	91	e.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
H. M. S. Flying Fish, N. 27° 42′, E. 121° 50′	30.20	767.1	62	16.7	51	nne.	.....	.....	3	.....	0	.....	.....	.....	.....	3	n.	blue sky.
H. M. S. Magpie, N. 1° 17′, E. 103° 51′	29.82	757.4	81.5	27.5	79	ese.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	blue sky.
H. P. M. S. Tamega, Macao, China	30.08	764.1	73.4	23.0	66	nne.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
U. S. Naval Hospital, Yokohama, Japan	.....	.....	67.5	19.7	95	sw.	.....	.....	7	.....	10	.....	sw.	0.72	18.3	.....	.....	gloomy.
U. S. S. Essex, Nagasaki, Japan	29.95	760.7	61	16.1	66	w.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	squally.
U. S. S. Hartford, Panama, Panama*	29.84	757.9	78	25.6	95	var.	.....	.....	1	.....	10	.....	.....	4 h'r	4 h'r	.....	.....	cloudy.
U. S. S. Juniata, Canton, China	30.10	764.5	66	18.9	79	nne.	.....	.....	2	.....	8	.....	n.	0	0	.....	.....	fair.
U. S. S. Monocacy, Nagasaki, Japan	29.98	761.5	59	15.0	88	nnw.	.....	.....	3	.....	10	.....	nnw.	.....	.....	sm'h	.....	cloudy.
U. S. S. Pensacola, Karatsu Bay, Japan	29.80	756.9	58	14.4	58	w.	.....	.....	6	.....	8	.....	w.	mod.	mod.	.....	.....	cloudy.
U. S. S. Ranger, N. 23° 25′, W. 111° 03′	30.12	765.0	77	25.0	77	ene.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
U. S. S. Richmond, N. 33° 46′, E. 137° 06′	29.70	754.4	73	22.8	76	wsw.	.....	.....	5	.....	5	.....	wsw.	0	0	.....	.....	fair.
S. S. City of Chester, San Francisco, Cal.†	30.06	763.5	54	12.2	86	sw.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	clear.
S. S. Oregon, N. 40° 35′, W. 124° 20′†	30.14	765.5	53	11.7	90	n.	.....	.....	3	.....	2	.....	nnw.	.....	.....	light	nw.	clear
S. S. Ancon, Point Sur, Cal.†	30.00	762.0	56	13.3	81	nw.	.....	.....	2	.....	0	.....	.....	0	0	light	nw.	clear.
S. S. Orizaba, N. 35° 10′, W. 120° 43′*†	30.10	764.5	64	17.8	83	sse.	.....	.....	2	.....	2	.....	ssw.	0	0	long	s.	fair.
S. S. State of California, Astoria, Oregon †	30.13	765.3	45	7.2	87	e.	.....	.....	2	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
S. S. City of Pekin, N. 46° 40′, W. 173° 25′ †	29.91	759.7	50	10.0	100	se.	.....	.....	8	.....	10	.....	se.	light	light	r'gh	se.	rainy.
S. S. City of Rio de Janeiro, N. 35° 05′, W. 153° 45′†	30.41	772.4	65	18.3	84	ne.	.....	.....	4	.....	10	.....	ne.	rain	rain	mod.	ne.	light rain.
S. S. Colima, Panama, Panama†	29.93	760.2	78	25.6	91	nw.	.....	.....	2	.....	8	.....	nw.	0.20	5.1	.....	.....	cloudy.
S. S. San Juan, N. 12° 22′, W. 87° 30′	.....	.....	83	28.3	.....	ne.	.....	.....	4	.....	8 8	.....	ne.	2 h'r	2 h'r	short	sse.	fine.
S. S. Zealandia, N. 8° 07′, W. 163° 29′	29.96	761.0	80	26.7	82	ne.	.....	.....	5	.....	2	.....	.....	0	0	sm'h	.....	clear.
S. S. Alameda, Honolulu, Sandwich Islands†	30.04	763.0	74	23.3	.....	ene.	.....	.....	2	.....	3	.....	w	1 h'r	1 h'r	.....	.....	fair.
S. Parker M. Whitmore, N. 9° 20′, W. 120° 20′ *†	29.86	758.4	78	25.6	.....	ese.	.....	.....	4	.....	.....	.....	.....	20 h'r	20 h'r	cross	var.	squally
S. Sovereign of the Seas, N. 16° 57′, W. 124° 21′	.....	.....	76	24.4	91	ne.	.....	.....	4	.....	0	.....	.....	2 h'r	2 h'r	long	n.	cloudy.
District No. 4—South Pacific.																		
H. M. S. Lark, S. 7° 24′, E. 155° 33′	29.82	757.4	79.3	26.3	87	ne.	.....	.....	1	.....	7	.....	.....	.....	.....	sm'h	.....	showery
H. M. S. Mutine, Coquimbo, Chili	30.10	764.5	56	13.3	.....	ne.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
H. M. S. Nelson, Sydney, N. S. W.	29.76	755.9	59	15.0	65	se.	.....	.....	7	.....	10	.....	.....	.....	.....	.....	.....	squally.
U. S. S. Iroquois, Callao, Peru	30.02	762.5	62	16.7	88	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	sm'h	.....	cloudy.
U. S. S. Lackawanna, Valparaiso, Chili*	30.06	763.5	55	12.8	81	calm	.....	.....	0	.....	2	.....	nw.	.....	.....	.....	.....	fair.
U. S. S. Onward, Callao, Peru*†	30.12	765.0	60	15.6	88	wsw.	.....	.....	1	.....	10	.....	ssw.	.....	.....	mod.	w.	cloudy.
U. S. S. Wachusetts, Valparaiso, Chili*	30.08	764.0	56	13.3	81	calm	.....	.....	0	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Australia, Sydney, N. S. W.	30.10	764.5	62	16.7	88	nw.	.....	.....	2	.....	2	.....	nnw.	0	0	.....	.....	clear.
S. S. City of New York, Sydney, N. S. W.†	29.99	761.7	58	14.4	82	se.	.....	.....	2	.....	2	.....	se.	0	0	.....	.....	fair.
Bk. E. L. Pettingill, S. 59° 23′, W. 76° 18 *†	28.80	731.5	36	2.2	.....	nnw.	.....	.....	4	.....	2	.....	nw.	snow	snow	h'vy	nw.	clearing.
S. E. B. Sutton, S. 35° 20′, W. 120° 00′ *†	30.24	768.1	57	13.9	100	sse.	.....	.....	2	.....	hz	.....	.....	0	0	h'vy	ne;se	cloudy.
S. J. W. Gildemeister, S. 27° 09′, E. 160° 25′	29.94	760.5	68.0	20.0	81	nw.	.....	.....	3-4	.....	3	.....	nw.	.....	.....	2-3	se.	d. clouds.
Bk. Chas. Stewart, S. 12° 00′, W. 87° 00′ †	30.13	765.3	65	18.3	.....	se.	.....	.....	7	.....	fg.	.....	.....	.....	.....	long	sse	overcast.
S. Storm King, S. 39° 23′, W. 115° 49′*†	30.20	767.1	.....	.....	.....	ssw.	.....	.....	4	.....	7	.....	ssw.	3 h'r	3 h'r	h'vy	var.	cloudy.

VESSELS WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
District No. 5—Indian Ocean.																		
H. M. S. Euryalus, N. 5° 00′ E. 52° 10′	29.90	759.4	81	27.2	78	ne.	.....	.....	2	.....	4	ne.	.....	.....	.....	.....	.....	showery.
H. M. S. London, Zanzibar, Zanzibar	29.94	760.5	81	27.2	91	e.	.....	.....	1	.....	2	sse.	.....	.....	.....	2	sse.	blue sky.
H. M. S. Tourmaline, S. 12°, 00′ E. 44° 15′	29.99	761.7	83	28.3	91	ene.	.....	.....	1	.....	5	ene.	.....	.....	.....	sm'h	.....	d. clouds.
H. M. S. Woodlark, Bushire, Persia	30.04	763.0	84.5	29.2	61	wnw.	.....	.....	6	.....	2	calm	.....	.....	.....	4	nw.	squally.
Bk. Great Surgeon, Batavia Bay, Java*†	30.30	769.6	84	28.9	.....	nne.	.....	.....	1	.....	1	.....	s	0	0	sm'h	.....	clear.
Bk. Mohican, S. 41° 36′, E 64° 45′	30.16	766.1	59	15.0	.....	wnw.	.....	.....	5	.....	4	.....	nw.	2 h'r	2 h'r	long	wsw.	fair.
S. S. Radnorshire, N. 8° 26′, E. 68° 10′*†	29.92	760.0	.....	.....	.....	nne.	.....	.....	2	.....	2?	.....	nne.	sqll's	sqll's	mod.	n;w.	cloudy.†
S. S. Strathleven, N. 5° 55′, E. 87° 30′	29.81	757.2	80.5	26.9	89	wsw.	.....	.....	4	.....	4	.....	sw.	0	0	5	wsw.	d. clouds.

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



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

OCTOBER, 1883.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for October, 1883. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Total Precipitation. Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.08	764.1	72.0	22.2	78.8	7	.....	.....	.....	2	7	12	3	.....	.....	.....	3	0.98	24.8
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	30.08	764.0	70.7	21.5	63.1	7	3	8	4	.....	.....	3	6	.....	.....	.....	1	5.26	133.5
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.05	763.3	72.0	22.2	70.4	3	13	4	2	.....	.....	2	7	.....	.....	.....	3	3.26	82.8
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.08	764.1	71.1	21.7	60.4	11	7	4	2	10	.....	4	3	.....	.....	.....	3	1.37	34.7
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.11	764.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.11*i*	764.8*i*	63.3	17.4	73.6	8	1	5	5	2	4	1	5	.....	.....	.....	3	4.50	114.2
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	67.3	19.6	25.9	7	13	3	.....	2	4	.....	2	.....	.....	.....	2	0.04	0.9
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2549	777	.....	.....	30.13	765.3	72.7	22.6	37.9	10	3	2	1	1	5	4	5	.....	.....	.....	1	0.42	10.6
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.12	765.0	77.7	25.4	39.4	.....	1	8	.....	.....	8	4	1	9	.....	.....	1	0.51	13.0
AUSTRALIAN.																										
Adelaide	S. 34 57	E. 138 35	9.22 p.m.	140	42	.....	.....	30.05	763.3	55.8	13.2	68.2	4	2	3	6	8	6	1	.....	1	.....	.....	5	1.79	45.5
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.90	759.3	29.99	761.6	54.0	12.2	80.0	2	3	7	4	5	6	2	1	1	.....	.....	6	2.77	70.4
AUSTRIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.52	749.8	30.06	763.5	57.4	14.1	60.2	.....	1	.....	7	4	5	3	11	.....	.....	.....	7	3.94	100.2
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.28	743.7	30.05	763.2	53.4	11.9	71.9	.....	2	9	7	.....	1	0	6	.....	.....	.....	8	1.03	26.2
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.19	741.4	30.05	763.3	49.5	9.7	82.5	1	1	.....	.....	7	2	.....	.....	20	.....	.....	7	2.21	56.1
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.83	732.2	30.08	764.0	55.6	13.1	89.1	3	3	2	3	8	4	6	.....	2	.....	.....	7	3.51	89.1
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.65	727.6	30.07	763.7	58.1	14.5	66	.....	9	2	.....	3	14	3	.....	.....	.....	.....	5	1.49	37.8
Kremsmunster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.71	729.2	30.06	763.4	50.2	10.1	82.2	.....	2	11	1	.....	.....	2	8	7	.....	.....	6	1.83	46.5
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	29.07	738.4	30.06	763.6	52.2	11.2	72.5	.....	5	3	3	6	5	3	6	.....	.....	.....	8	1.76	44.8
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.93	760.1	30.04	762.9	63.3	17.4	70.7	1	1	6	4	4	2	7	5	1	.....	.....	5	3.40	86.4
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.58	751.3	30.04	763.0	57.7	14.3	70	5	1	9	2	8	2	3	1	.....	.....	.....	5	2.98	75.8
Szegedin *b*	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.78*d*	756.3*d*	30.06*d*	763.4*d*	58.1	14.5	71.7	1	2	5	5	8	2	2	2	2	.....	.....	7	1.97	50.0
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.97	761.3	30.07	763.8	63.9	17.7	53.4	4	1	5	4	2	.....	4	10	1	.....	.....	4	1.81	46.0
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.37	745.9	30.08	764.1	54.7	12.6	70.4	1	3	11	.....	1	11	2	1	1	.....	.....	7	0.92	23.4
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.70	754.4	29.80	756.9	50.5	10.3	67.1	2	3	8	5	9	3	1	.....	.....	.....	.....	5	2.14	54.4
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.65	753.1	29.89	759.2	51.0	10.6	80.3	2	6	.....	11	5	7	.....	.....	.....	.....	.....	7	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.92	760.0	52.1	11.2	77.3	.....	5	8	6	4	7	1	.....	.....	.....	.....	7	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.38	746.2	29.92	760.0	50.5	10.3	83.5	3	4	3	6	11	2	.....	2	.....	.....	.....	8	.....	.....
Bradford *d*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.50	749.3	29.89	759.2	51.0	10.6	76.8	1	6	.....	10	1	5	.....	4	.....	.....	.....	7	3.65	92.7
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	29.85	758.2	29.97	761.2	55.1	12.8	75.5	6	6	8	4	3	1	1	2	.....	.....	.....	7	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	160	49	29.81	757.2	29.99	761.7	54.2	12.3	79.9	6	1	3	7	4	2	.....	1	7	.....	.....	5	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.79	756.7	30.02	762.5	55.5	13.1	78.7	1	5	6	5	4	3	4	3	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2205	672	27.65	702.3	29.87	758.7	76.9	24.9	54.8	.....	2	1	.....	.....	3	13	9	3	.....	.....	5	.....	.....
Freetown	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.71	754.6	29.94	760.5	83.6	28.7	83.7	6	.....	6	4	8	3	3	1	.....	.....	.....	6	.....	.....
Galway	N. 53 15	W. 9 03	11.32 a.m.	32	10	29.85	758.2	29.89	759.2	51.7	10.9	84.9	1	6	7	10	4	1	.....	2	.....	.....	.....	6	4.95	125.7
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.05	763.3	30.10	764.5	68.6	20.3	88.9	.....	11	3	.....	.....	.....	12	5	.....	.....	.....	3	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.63	752.6	29.84	757.9	50.7	10.4	74.2	1	3	5	12	2	6	1	1	.....	.....	.....	6	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.81	757.2	29.98	761.5	55.1	12.8	76.7	4	3	3	11	4	2	3	1	.....	.....	.....	8	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.74	755.4	30.04	763.0	44.9	7.2	81.0	5	3	4	8	1	3	7	.....	.....	.....	.....	8	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.95	760.7	29.99	761.7	54.4	12.4	73.4	7	1	6	8	5	1	2	1	.....	.....	.....	7	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.69	754.1	29.94	760.5	54.2	12.3	76.3	2	3	6	11	2	3	.....	4	.....	.....	.....	7	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.94	760.5	30.01	762.2	72.2	22.3	70.8	.....	13	1	3	.....	3	.....	11	.....	.....	.....	4	3.25	82.5
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	29.98	761.5	30.03	762.7	80.6	27.0	78.2	1	.....	.....	1	5	4	12	8	.....	.....	.....	6	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.44	747.8	29.96	761.0	52.0	11.1	85.9*a*	3	3	5	4	10	2	.....	4	.....	.....	.....	8	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.75	755.6	29.98	761.5	53.7	12.1	77.3	1	5	1	11	3	3	.....	4	3	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.93	760.2	30.00	762.0	55.9	13.3	82.8	3	5	4	8	3	4	1	3	.....	.....	.....	8	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	29.61	752.1	29.71	754.6	48.2	9.0	81.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemet'y *a*	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.96	761.0	30.02	762.5	79.7	26.5	62.1	4	1	.....	7	1	.....	.....	13	4	.....	.....	6	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.65	753.1	29.93	760.2	54.1	12.3	82.8*a*	2	1	1	11	6	.....	2	3	5	.....	.....	6	3.27	83.1
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.85	758.2	29.88	758.9	54.5	12.5	79.5	6	3	8	5	4	4	1	.....	.....	.....	.....	6	3.20	82.8
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.93	760.2	51.0	10.6	75.7	5	1	8	9	3	1	.....	4	.....	.....	.....	9	.....	.....
Strathfield	N. 51 17	W. 0 53	0.04 p.m.	197	60	.....	.....	.....	.....	55.2	12.9	78.5	4	4	5	10	3	1	2	1	1	.....	.....	7	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.97	761.2	30.04	763.0	58.8	14.9	78.1	.....	8	6	4	2	6	3	2	.....	.....	.....	8	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.94	760.5	29.96	761.0	54.2	12.3	81.2	6	2	7	4	6	6	.....	.....	.....	.....	.....	8	.....	.....
Sub-series.																										
Gozo	N. 36 01	E. 14 16	1.05 p.m.	364	111	29.69	754.1	30.08	764.0	70.3	21.3	62.6	2	12	1	3	1	2	2	7	1	.....	.....	6	2.79	70.9
CANADIAN.																										
Bathurst	N. 47 39	W. 65 43	7.45 a.m.	35	11	30.08	764.0	30.14	765.5	38.4	3.6	.....	.....	1	4	5	2	1	1	.....	17	.....	.....	7	1.88	47.8
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	30.07	763.8	30.11	764.8	43.5	6.4	81.3	9	3	6	6	1	2	.....	1	3	6917	11132	7	6.10	154.9
Chatham*	N. 47 03	W. 65 29	7.45 a.m.	56	17	30.09	764.3	30.15	765.8	30.2	2.3	86.1	6	4	2	14	.....	.....	2	2	1	3704	5961	7	2.86	72.6
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.93	760.2	30.13	765.3	39.5	4.2	88.3	3	8	4	1	1	2	10	2	.....	.....	.....	7	1.82	46.2
Dalhousie *d*	N. 48 04	W. 66 22	7.32 a.m.	45	14	30.08	764.0	30.13	765.3	35.1*f*	1.7*f*	.....	1	2	17	.....	.....	.....	2	.....	5	.....	.....	5*i*	3.94	100.1
Edmonton *o*	N. 53 14	W. 113 38	4.33 a.m.	2380?	725?	27.45	697.2	.....	.....	22.6	30.3	62.5	.....	.....	2	.....	2	1	.....	.....	11	.....	.....	1	1.16	29.5
Father Point*	N. 48 31	W. 68 28	7.34 a.m.	20	6	30.10	764.5	30.12	765.0	36.9	2.7	85.7	3	1	7	7	4	1	.....	5	3	5540*c*	8916*c*	7	1.30	35.3
Fort Garry*	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.20	741.7	30.06	763.5	31.4	—0.3	91.3	4	4	3	3	8	6	2	.....	1	8101	13037	8	3.68	93.5
Fredericton	N. 45 57	W. 66 38	7.41 a.m.	59	18	30.12	765.0	30.18	766.6	36.9	2.7	82.2	1	9	3	2	4	1	2	5	4	.....	.....	6	3.65	92.7
Grand Manan	N. 44 46	W. 66 45	7.41 a.m.	49	15	30.10	764.5	30.16	766.1	43.8	6.6	80.2	6	2	3	5	2	3	1	5	4	9171	14759	5	6.62	168.2
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	29.03	737.3	30.16	766.1	39.6	4.2	90.2	1	1	3	1	4	3	1	1	16	.....	.....	6	2.35	59.7
Halifax*	N. 44 39	W. 63 36	7.53 a.m.	122	37	30.02	762.5	30.15	765.8	43.6	6.4	87.1	7	7	7	1	5	1	.....	2	1	.....	.....	5	6.98	177.3
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	350	107	29.72	754.9	30.12	765.0	42.6	5.9	89.0	1	4	.....	10	.....	.....	1	15	.....	.....	.....	6	2.01	51.1
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.82	757.4	30.17	766.3	42.3	5.7	82.3	11	3	1	2	6	2	1	4	1	5409	8801	6	3.64	92.5
Little GlaceBay *c*	N. 46 12	W. 59 58	8.08 a.m.	34	10	30.06	763.5	30.09	764.3	47.1	8.4	82.6*d*	3*b*	3	7	7	4	2	.....	3	.....	.....	.....	6	5.09	129.3
London	N. 43 00	W. 81 15	6.43 a.m.	816	248	29.23	742.4	30.15	765.8	40.9	4.9	90.1	3	.....	1	.....	5	.....	.....	4	18	.....	.....	6	2.12	53.8
Medicine Hat *a*	N. 50 01	W. 110 37	4.40 a.m.	2136	651	27.65	702.3	29.99	761.7	31.9	—0.1	85.5	*h*	1	4	1	2	.....	1	.....	14	.....	.....	3*h*	0.97*h*	24.6*h*
Minnedosa	N. 50 13	W. 99 48	5.29 a.m.	1796	545	28.04	712.2	30.02	762.5	29.4	—1.4	90.9	.....	7	3	4	3	4	5	2	3	.....	.....	7	2.22	56.4
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.95	760.7	30.16	766.1	40.4	4.7	82.6	5	2	7	3	6	.....	2	6	.....	.....	.....	7	2.49	63.2
Ottawa	N. 45 26	W. 75 41	7.05 a.m.	200	61	29.93	760.2	30.16	766.1	36.0	2.2	91.9*a*	6	2	3	4	3	.....	6	6	1	.....	.....	6	2.65	67.3
Parry Sound*	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.44	747.8	30.15	765.8	37.1	2.8	89.0	9	2	.....	2	3	2	6	4	3	6336	10197	6	4.21	106.9
Peterboro	N. 44 17	W. 78 18	6.54 a.m.	675	206	29.40	746.7	30.15	765.8	41.5	5.3	78.5	4	2	4	4	.....	.....	1	11	5	.....	.....	5	1.02	25.9
Port Arthur	N. 48 27	W. 89 12	6.11 a.m.	642	196	29.42	747.3	30.13	765.3	36.8	2.7	86.8	1	8	4	5	1	4	2	2	4	4299	6918	8	1.88	47.8
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.43	747.5	30.13	765.3	43.1	6.2	94.6	6	2	4	3	2	.....	.....	14	.....	5950	9575	7	1.74	44.2
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.47	748.5	30.13	765.3	43.2	6.2	87.1	8	1	6	1	.....	2	8	4	1	.....	.....	6	1.65	41.9
Qu Appelle	N. 50 44	W. 103 42	5.13 a.m.	2115	646	27.69	703.3	30.03	762.7	29.6	—1.3	91.1	1	2	2	4	6	4	1	1	10	6688	10763	6	1.38	35.1
Quebec*	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.78	750.4	30.15	765.8	37.8	3.2	94.1	2	1	2	3	5	.....	1	6	11	.....	.....	6	2.83	71.9
Rockliffe*	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.68	753.9	30.16	766.1	35.9	2.2	84.8	3	3	7	.....	3	8	2	.....	5	.....	.....	6	3.66	93.0
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	30.09	764.3	30.13	765.3	40.9	4.9	85.6	8	5	2	4	1	1	2	3	5	.....	.....	3	5.57	141.5
Saint John, N.B.	N. 45 17	W. 66 03	7.44 a.m.	130	40	30.02	762.5	30.16	766.1	39.6	4.2	84.3	5	9	3	2	5	1	1	4	1	.....	.....	6	5.46	138.7
Saint Johns, N.F.	N. 47 34	W. 52 54	8.30 a.m.	230?	70?	29.87	758.7	30.13	765.3	42.1	5.6	91.8	1	2	6	5	4	4	.....	9	.....	.....	.....	5	6.95	176.5
Saint Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	30.03	762.8	46.2	7.9	.....	4	6	6	5	2	3	.....	5	.....	.....	.....	.....	5.07	128.7
Saugeen*	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.40	746.7	30.14	765.5	38.7	3.7	84.3	6	1	3	2	2	4	5	1	7	7074	11384	5	3.03	77.0
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	28.80*a*	733.0*a*	30.16*a*	766.1*a*	38.9	3.8	90.4	2	2	4	1	2	7	2	3	8	.....	.....	6	2.23	56.6

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Total Precipitation. Mill.
CANADIAN.—Con.	° ′	° ′																								
S.W.Pt, Anticostik	N. 49 24	W. 63 36	7.54 a.m.	30	9	30.01	762.2	30.04	763.0	38.8	3.8	88.0	3	6	.....	.....	3	7	1	.....	.....	.....	.....	6	1.78	45.2
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	30.04	763.0	30.10	764.5	43.4	6.3	86.5	4	3	4	7	2	3	.....	2	6	6858	11037	7	6.83	173.4
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.78	756.4	30.17	766.3	42.0	5.6	84.1	7	2	2	2	2	1	5	8	2	6141*b*	9883*b*	7	0.91	23.1
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	29.09	738.9	30.18	766.6	40.6	4.8	88.3	*g*7	2	2	2	3	1	3	4	.....	.....	.....	7	2.19	55.6
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	30.09	764.3	30.15	765.8	48.6	9.2	88.8	4	4	2	1	2	2	9	4	3	.....	.....	4	4.90	124.5
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.00	762.0	30.03	762.7	64.4	18.0	85.7*a*	.....	.....	.....	17	.....	4	1	6	3	.....	.....	6	1.49	37.8
Cape Town *n*	S. 34 02	E. 18 29	1.22 p.m.	.....	.....	29.87	758.7	29.90	759.4	70.7	21.5	58.3	3	3	.....	.....	.....	5	1	1	4	.....	.....	4	0	0
Springbok *b*	S. 29 45	E. 17 43	1.19 p.m.	?	?	27.88	708.1	.....	.....	60.2	15.7	47.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.91	23.1
CHILIAN.																										
Coquimbo	S. 29 56	W. 71 21	7.22 a.m.	72	22	29.98	761.4	30.06	763.4	56.7	13.7	88.2	4	3	2	5	3	2	10	2	.....	.....	.....	7	.....	.....
Iquique *b*	S. 20 12	W. 70 11	7.27 a.m.	26	8	29.99	761.8	30.02	762.5	62.4	16.9	73.4	.....	1	1	23	2	.....	.....	2	.....	.....	.....	.....	.....	.....
Niebla	S. 39 53	W. 73 25	7.14 a.m.	98	30	29.58	751.1	29.69	754.0	49.5	9.7	86.7	2	8	2	.....	.....	.....	19	.....	.....	.....	.....	3	8.69	220.8
Punta Caldera	S. 27 03	W. 70 53	7.25 a.m.	82	25	29.96	761.0	30.05	763.2	57.6	14.2	82.3	.....	9	.....	13	.....	4	.....	5	.....	.....	.....	7	.....	.....
Punta Corona	S. 41 47	W. 73 53	7.12 a.m.	174	53	29.92	760.0	30.11	764.8	.....	.....	.....	6	7	.....	3	10	2	3	.....	.....	.....	.....	5	4.94	125.5
Valparaiso	S. 33 02	W. 71 39	7.22 a.m.	82	25	29.90	759.4	29.98	761.6	57.2	14.0	83.7	6	.....	.....	6	12	5	.....	2	.....	.....	.....	7	.....	.....
CHINESE. (*Sub*).																										
Sung-shu-chwang	*a*N. 36 07	E. 103 56	7.04 p.m.	4987	1520	25.36	644.0	.....	.....	46.0	7.8	.....	4	6	5	1	.....	2	.....	2	10	.....	.....	4	.....	.....
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	22	7	30.14	765.6	30.17	766.2	61.5	16.4	83.9	9	2	3	1	1	3	7	5	.....	.....	.....	5	1.03	26.1
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.84	757.9	29.89	759.1	50.9	10.5	79	4	4	5	4	3	7	3	1	.....	.....	.....	7	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.85	758.3	29.87	758.8	51.1	10.6	81	1	2	9	7	2	3	4	3	.....	.....	.....	7	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.59	751.6	29.63	752.7	27.1	−2.7	80	3	2	1	1	5	2	2	12	3	.....	.....	6	.....	.....
Jacobshavn	N. 69 13	W. 50 55	8.44 a.m.	42	13	29.60	751.9	29.65	753.1	20.3	−6.5	.....	1	.....	1	1	2	1	20	.....	5	.....	.....	6	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.32	744.8	29.37	745.9	39.9	4.4	79	.....	.....	1	3	5	3	8	9	2	.....	.....	8	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.56	750.9	29.59	751.5	46.9	8.3	85	4	2	11	7	5	1	.....	1	.....	.....	.....	7	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.73	755.1	29.82	757.4	49.8	9.9	79	.....	2	7	3	3	7	2	4	3	.....	.....	6	.....	.....
Egyptian.																										
Cairo	N. 30 03	E. 31 21	2.14 p.m.	?	?	29.84	758.0	.....	.....	81.9	27.7	.....	11	2	1	1	.....	.....	5	11	.....	.....	.....	2	0.42	10.6
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.52	749.9	30.17	766.4	58.5	14.7	84.4	3	.....	6	4	5	12	.....	1	.....	.....	.....	.....	2.55	64.8
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.55	750.6	30.10	764.6	53.2	11.8	90.4	2	.....	4	5	6	6	2	6	.....	.....	.....	5	2.13	54.2
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	30.01	762.2	30.09	764.2	63.7	17.6	60.5	6	19	1	1	.....	4	.....	.....	.....	.....	.....	4	0.82	20.7
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.52	749.7	30.08	763.9	55.0	12.8	68	.....	3	.....	9	4	9	2	4	.....	.....	.....	7	3.43	87.1
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.78	756.4	30.05	763.2	54.0	12.2	76.2	.....	5	6	4	3	6	5	2	.....	.....	.....	7	2.40	61.0
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.14	740.2	30.06	763.4	45.9	7.7	86.3	1	.....	1	9	5	3	1	11	.....	.....	.....	6	6.52	165.6
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.84	757.9	30.10	764.5	59.2	15.1	74.7	2	3	4	5	3	4	7	3	.....	.....	.....	7	3.09	78.5
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.51	749.6	30.07	763.8	57.4	14.1	76.4	1	1	6	10	3	4	4	2	.....	.....	.....	.....	2.90	73.7
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.85	758.2	30.10	764.4	58.1	14.5	82.1	6	1	4	7	1	2	1	6	3	.....	.....	7	2.76	70.0
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.93	760.3	30.01	762.3	57.2	14.0	74.9	1	5	6	4	6	4	2	3	.....	.....	.....	.....	2.11	53.7
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.73	755.2	30.14	765.5	53.8	12.1	81.5	3	3	1	10	7	3	1	.....	3	.....	.....	5	4.53	115.1
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.51	749.6	30.03	762.7	54.1	12.3	72.3	3	2	3	6	6	3	7	1	.....	.....	.....	6	3.11	78.9
Clermont-Fer'and	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.72	729.6	30.07	763.8	52.2	11.2	55.3	4	8	4	3	1	7	2	2	.....	.....	.....	6	1.42	36.2
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.26	743.2	30.13	765.3	56.5	13.6	70.5	2	3	2	6	7	5	2	4	.....	.....	.....	.....	2.87	72.8
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.21	741.9	30.04	763.1	52.9	11.6	78.4	1	2	13	4	2	.....	8	1	.....	.....	.....	6	6.60	167.6
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.55	699.7	30.06	763.5	57.2	14.0	64.0	1	2	1	7	3	4	1	2	10	.....	.....	.....	1.50	38.0
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.93	734.8	30.04	763.0	64.6	18.1	49	4	10	2	2	7	4	1	1	.....	.....	.....	4	0.70	17.7
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.34	745.3	30.11	764.7	56.5	13.6	72.2	2	8	.....	5	2	.....	7	7	.....	.....	.....	.....	4.55	115.6
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.50	723.9	30.10	764.4	54.7	12.6	76	.....	3	1	16	2	5	1	3	.....	.....	.....	.....	3.44	87.3
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.74	755.5	30.02	762.5	56.1	13.4	81.0	1	8	6	1	4	5	5	1	.....	.....	.....	6	3.65	77.5
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.54	750.2	30.10	764.4	62.8	17.1	66.4	3	.....	9	6	3	1	5	4	.....	.....	.....	5	4.91	124.7
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.99	761.7	30.09	764.3	59.4	15.2	69.8	1	6	3	6	2	3	3	6	1	.....	.....	6	3.65	92.6
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.05	737.8	30.11	764.8	55.0	12.8	71.3	4	6	1	.....	7	3	5	5	.....	.....	.....	5	3.07	77.9
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.76	755.9	30.08	763.9	54.7	12.6	82.3	5	3	4	7	3	5	3	1	.....	.....	.....	7	3.24	82.3
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.73	756.6	30.05	763.6	64.6	18.1	61.1	.....	5	9	7	3	4	3	.....	.....	.....	.....	.....	0.62	15.7
Montlouis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	28.55	732.9	29.76	755.9	49.1	9.5	52.8	2	4	3	8	3	2	5	4	.....	.....	.....	5	2.89	73.4
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.95	760.6	30.06	763.4	64.0	17.8	76.1	3	9	6	2	2	2	3	4	.....	.....	.....	5	0.53	13.5
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.29	744.0	30.08	764.0	51.6	10.9	79.9	4	10	3	3	11	.....	.....	.....	.....	.....	.....	.....	3.63	92.3
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.95	760.6	30.10	764.6	58.1	14.5	74.3	4	4	4	6	3	1	3	6	.....	.....	.....	7	5.02	127.6
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.99	761.7	30.10	764.5	63.3	17.4	65	.....	13	2	1	1	7	4	3	.....	.....	.....	6	2.65	67.4
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.27	540.2	.....	.....	32.4	0.2	.....	3	5	6	6	1	.....	.....	3	7	.....	.....	5	6.46	164.1
Privas [init.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	29.00	738.1	30.12	765.1	60.1	15.6	63.9	16	.....	2	.....	10	.....	1	1	1	.....	.....	3	.....	.....
Puy de Dôme	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.19	639.9	.....	.....	40.5	4.7	87.7	.....	3	9	5	4	6	1	3	.....	.....	.....	7	5.47	139.0
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.05	763.3	30.08	764.0	60.1	15.6	76.0	3	1	2	5	5	2	4	3	6	.....	.....	3	1.27	32.2
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.86	758.5	30.08	764.0	57.7	14.3	82.8	2	3	2	6	6	6	2	4	.....	.....	.....	6	2.43	61.8
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.93	709.5	30.10	764.4	54.0	12.2	82.2	.....	15	5	.....	1	8	1	1	.....	.....	.....	.....	4.80	121.8
Rouen *a*	N. 49 26	E. 1 05	0.12 p.m.	39	12	30.01	762.3	30.06	763.6	55.4	13.0	83.3	6	4	3	1	2	3	7	4	.....	.....	.....	6	2.75	69.8
St. Lô	N. 49 06	W. 1 05	0.04 p.m.	134	41	29.90	759.5	30.02	762.5	55.0	12.8	78.9	3	4	10	4	2	3	2	3	.....	.....	.....	.....	2.90	73.7
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.90	759.5	30.07	763.6	53.8	12.1	77.6	2	3	1	10	6	2	2	4	1	.....	.....	8	2.82	71.6
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.42	747.2	30.16	766.0	61.0	16.1	72.5	1	6	7	3	1	13	.....	.....	.....	.....	.....	6	1.88	47.7
Tours	N. 47 24	E. 0 41	0.11 p.m.	167	51	29.92	759.9	30.08	764.0	57.6	14.2	72.2	8	3	5	6	3	.....	3	3	.....	.....	.....	5	3.02	76.8
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.56	750.9	30.05	763.4	53.1	11.7	76.5	3	2	7	3	3	4	2	6	1	.....	.....	.....	2.88	73.1
Sub-Series.																										
St. Martin du Hinx.	N. 43 35	W. 1 16	0.03 p.m.	131	40	29.99	761.7	30.14	765.5	61.3	16.3	79.6	4	6	5	2	5	2	3	4	.....	.....	.....	7	8.02	203.6
GERMAN.																										
Ansbach	N. 49 18	E. 10 36	0.50 p.m.	1358	414	28.61	726.6	30.06	763.5	51.3	10.7	72.4	.....	1	7	8	1	4	3	2	5	.....	.....	6	1.82	46.1
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.21	741.9	30.05	763.3	52.7	11.5	70.7	2	1	7	5	1	3	1	.....	11	.....	.....	6	1.87	47.4
Berlin	N. 52 30	E. 13 19	1.02 p.m.	131	40	29.85	758.1	30.00	761.9	53.6	12.0	76.2	2	1	12	1	7	2	2	.....	4	.....	.....	8	2.96	75.3
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.54	750.3	30.08	763.9	53.2	11.8	66.3	2	1	9	5	4	7	2	.....	1	.....	.....	7	1.08	27.5
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	413	126	29.62	752.3	30.08	764.1	53.6	12.0	71.4	1	.....	1	17	1	.....	.....	10	1	.....	.....	7	5.76	146.4
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.29	743.9	30.00	762.0	53.1	11.7	73.8	1	1	5	6	12	.....	5	1	.....	.....	.....	7	1.98	50.2
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.67	753.7	30.04	762.9	53.8	12.1	69.1	1	1	2	12	4	2	2	2	5	.....	.....	8	2.86	72.6
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1339	408	28.66	728.0	30.09	764.3	50.5	10.3	79.7	1	1	4	20	1	1	.....	3	.....	.....	.....	7	4.50	114.2
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.87	758.6	29.96	760.9	52.2	11.2	80.5	3	.....	2	16	1	4	3	2	.....	.....	.....	8	2.85	72.3
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.90	759.5	29.91	759.8	51.8	11.0	82.5	2	1	8	8	3	2	4	1	2	.....	.....	7	3.84	97.6
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.60	751.7	30.02	762.5	53.6	12.0	71.8	3	1	4	6	10	2	2	3	.....	.....	.....	8	3.57	90.7
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.80	756.8	29.99	761.7	54.5	12.5	74.6	1	4	4	9	3	5	1	3	1	.....	.....	8	1.95	49.5
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.93	760.3	29.98	761.5	50.7	10.4	76.5	1	6	6	4	5	7	.....	2	.....	.....	.....	7	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.23	717.0	30.10	764.4	50.7	10.4	70.4	4	11	2	2	.....	.....	5	2	5	.....	.....	7	2.33	59.1
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.95	760.6	29.96	761.0	52.0	11.1	73.8	2	2	4	10	3	8	1	1	.....	.....	.....	7	2.05	52.1
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.50	749.3	30.03	762.7	53.6	12.0	70	1	5	3	12	4	.....	.....	.....	6	.....	.....	7	2.70	68.7
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.10	739.2	29.99	761.7	54.3	12.4	65.8	8	3	8	3	1	.....	6	2	.....	.....	.....	6	1.30	32.9
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.89	759.1	29.91	759.7	51.6	10.9	80.0	4	1	2	11	4	5	3	1	.....	.....	.....	8	3.72	94.5
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.65	753.2	30.03	762.8	72.0	22.2	.....	3	1	1	3	10	.....	1	12	.....	.....	.....	6	8.32	211.2
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.82	757.5	29.87	758.8	86.2	30.1	59	.....	.....	8	21	2	.....	.....	.....	.....	.....	.....	1	0	0
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.38	746.2	29.85	758.1	88.4	31.3	35	4	.....	.....	1	5	5	5	11	.....	.....	.....	3	1.11	28.2
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.82	757.4	29.86	758.4	82.4	28.0	78	3	14	4	3	1	2	.....	4	.....	.....	.....	5	10.40	264.2
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	28.01	711.6	29.88	758.9	77.7	25.4	66	1	5	2	3	.....	6	5	9	.....	.....	.....	6	7.97	202.4
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.58	751.2	29.86	758.3	83.1	28.4	69	1	7	6	.....	.....	1	10	4	2	.....	.....	9	7.94	201.7
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.34	720.0	29.81	757.1	81.0	27.2	65	3	4	2	1	.....	5	7	9	.....	.....	.....	8	0.13	3.3
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.29	693.2	29.84	757.9	73.9	23.3	77	3	1	6	8	3	.....	4	5	1	.....	.....	7	8.05	204.5
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	29.12	739.6	29.86	758.5	81.5	27.5	47	.....	1	1	1	.....	.....	1	.....	27	.....	.....	1	0	0
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.95	735.3	29.85	758.1	81.1	27.3	44	.....	1	3	.....	.....	.....	.....	.....	27	.....	.....	1	0	0
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	29.30	744.2	29.86	758.4	88.4	31.3	26	1	13	11	3	.....	1	1	.....	1	.....	.....	2	0	0

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
INDIAN—Cont'd.	° ′	° ′																								
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.82	732.0	29.86	758.5	81.4	27.4	55	.....	.....	.....	.....	.....	4	5	5	17	.....	.....	4	5.98	151.9
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1341	409	28.54	724.9	29.90	759.4	79.6	26.4	54	1	1	3	.....	1	5	.....	10	10	.....	.....	4	1.43	36.3
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.49	749.1	29.87	758.6	83.0	28.3	41	2	2	.....	2	.....	.....	.....	1	24	.....	.....	1	0	0
Allahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.56	750.7	29.87	758.7	78.3	25.7	62	.....	.....	.....	.....	.....	2	.....	.....	29	.....	.....	3	0.79	20.1
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.68	753.8	29.86	758.5	81.2	27.3	59	1	8	2	2	.....	3	1	3	11	.....	.....	4	0.40	10.2
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.57	707.8	29.88	758.9	77.7	25.4	49	6	18	1	2	1	.....	.....	2	1	.....	.....	3	0.20	5.1
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.79	756.6	29.87	758.7	82.6	28.1	74	1	.....	.....	.....	.....	.....	1	2	27	.....	.....	4	1.26	32.0
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.84	757.8	29.86	758.4	81.6	27.6	76	6	7	4	4	1	2	3	1	3	.....	.....	3	0.75	19.0
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	115	35	29.74	755.5	29.86	758.5	79.2	26.2	80	1	.....	.....	.....	.....	.....	1	4	25	.....	.....	1	2.15	54.6
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.78	756.5	29.87	758.8	78.7	25.9	79	1	7	7	4	.....	.....	1	.....	11	.....	.....	3	0.13	3.3
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.55	750.5	29.89	759.1	79.1	26.2	81	.....	.....	.....	2	.....	3	.....	26	.....	.....	.....	3	3.03	78.0
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.45	722.6	29.88	758.9	85.9	29.9	31	6	6	4	2	2	1	2	6	2	.....	.....	3	0.33	8.4
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.65	753.1	30.06	763.4	61.5	16.4	57	.....	.....	.....	2	1	.....	14	1	13	.....	.....	5	4.02	102.1
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.48	748.9	30.00	762.0	59.9	15.5	60	.....	4	4	6	2	8	3	4	.....	.....	.....	5	1.91	48.6
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.94	760.5	30.05	763.3	61.3	16.3	60	6	1	1	5	.....	.....	5	10	3	.....	.....	4	1.00	25.5
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.15	740.4	30.06	763.4	58.6	14.8	62	4	5	1	3	6	1	1	10	.....	.....	.....	5	1.01	25.6
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.84	758.0	30.04	762.9	64.6	18.1	54	13	.....	.....	8	3	5	.....	2	.....	.....	.....	4	2.76	70.1
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.15	715.0	30.06	763.6	56.5	13.6	65	5	7	13	2	1	.....	1	2	.....	.....	.....	5	1.24	31.5
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	30.01	762.3	30.06	763.5	62.4	16.9	69	10	6	2	5	1	.....	.....	7	.....	.....	.....	5	2.56	65.1
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.78	756.4	30.04	762.9	64.4	18.0	57	4	1	2	5	6	.....	5	8	.....	.....	.....	5	1.76	44.8
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	29.90	759.4	29.98	761.6	65.7	18.7	55	1	3	8	2	7	.....	4	6	.....	.....	.....	5	0.85	21.7
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.85	758.3	30.03	762.7	67.3	19.6	50	8	4	6	6	5	1	.....	.....	1	.....	.....	5	1.29	32.7
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.77	756.2	30.02	762.6	67.5	19.7	63	7	1	5	2	4	2	2	8	.....	.....	.....	5	3.80	98.1
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.15	740.5	30.04	763.0	65.5	18.6	63	.....	3	11	8	6	3	.....	.....	.....	.....	.....	6	6.02	152.8
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.83	757.7	30.02	762.5	67.8	19.9	61	.....	10	4	.....	4	6	1	.....	6	.....	.....	4	2.46	62.5
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.80	757.0	30.05	763.3	69.1	20.6	60	3	3	4	2	.....	.....	.....	16	3	.....	.....	5	3.35	85.1
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	29.97	761.2	30.01	762.3	70.5	21.4	62	4	.....	6	4	3	1	6	6	1	.....	.....	6	4.02	102.2
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.52	749.8	30.04	762.9	65.1	18.4	64.2	6	.....	1	8	2	3	4	7	.....	.....	.....	6	3.45	87.6
JAPANESE.																										
Akita	N. 39 42	E. 140 07	9.28 p.m.	32	10	30.04	763.0	30.07	763.9	54.8	12.6	97	3	2	2	.....	.....	2	4	.....	18	.....	.....	6	8.10	206.0
Awōnori	N. 40 51	E. 140 45	9.31 p.m.	32	10	30.02	762.4	30.05	763.3	53.4	11.9	84	.....	3	4	3	10	1	3	1	6	4419	7111	5	3.83	97.3
Hamamatsu	N. 34 43	E. 137 43	9.19 p.m.	92	28	29.97	761.3	30.07	763.8	63.2	17.3	87	3	4	4	1	.....	1	8	2	8	.....	.....	6	9.38	238.3
Kagoshima	N. 31 35	E. 130 33	8.50 p.m.	14	4	30.05	763.1	30.06	763.4	67.0	19.4	80	4	6	.....	1	.....	.....	3	5	12	.....	.....	5	3.28	83.4
Kanazawa	N. 36 33	E. 136 40	9.14 p.m.	95	29	29.99	761.7	30.10	764.5	59.5	15.3	90	2	.....	1	2	.....	13	6	.....	7	2533	4076	8	12.85	326.0
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.91	759.8	30.09	764.2	61.1	16.2	86	20	1	2	.....	1	.....	1	4	2	1029	2022	8	10.09	256.1
Kochi	N. 33 33	E. 133 34	9.02 p.m.	20	6	30.05	763.3	30.07	763.8	65.9	18.8	83	1	12	11	.....	1	1	4	1	.....	5014	8069	6	16.25	412.9
Miasaka	N. 31 56	E. 131 26	8.54 p.m.	26	8	30.04	763.0	30.07	763.7	65.5	18.6	85	16	.....	7	.....	1	.....	4	3	.....	.....	.....	6	8.95	227.4
Miyako	N. 39 38	E. 141 59	9.36 p.m.	98	30	29.97	761.3	30.08	764.1	54.3	12.4	90	.....	1	21	4	3	1	1	.....	.....	2011	4202	6	10.32	262.2
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.87	758.7	30.07	763.8	65.2	18.4	78	4	1	1	.....	1	1	2	11	10	3309	5326	4	3.70	94.2
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	30.04	763.1	30.08	764.0	60.3	15.7	85	5	1	3	1	.....	11	.....	9	1	4476	7204	6	7.93	201.3
Nobiru	N. 38 23	E. 141 11	9.32 p.m.	15	5	30.06	763.5	30.08	763.9	58.1	14.5	87	13	4	.....	1	5	.....	6	1	1	7692	12379	7	6.78	172.3
Numazdu	N. 35 06	E. 138 51	9.23 p.m.	32	10	30.04	763.1	30.08	764.0	62.5	16.9	83	1	.....	.....	2	1	2	17	7	1	.....	.....	8	14.18	360.2
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	30.06	763.5	30.08	764.1	62.2	16.7	85	14	.....	1	.....	.....	.....	4	12	.....	6033	9709	7	13.22	336.1
Sakai	N. 35 01	E. 133 13	9.01 p.m.	10	3	30.08	764.0	30.09	764.2	62.8	17.1	80	12	3	1	1	2	.....	4	6	2	.....	.....	6	10.89	276.7
Sapporo	N. 43 04	E. 141 23	9.33 p.m.	60	18	29.98	761.5	30.04	763.0	49.2	9.6	88	4	2	4	3	6	6	1	.....	5	4724	7600	7	9.44	239.7
Shimonoseki	N. 33 58	E. 130 56	8.52 p.m.	134	41	29.94	760.6	30.09	764.3	64.4	18.0	82	2	1	1	1	.....	1	2	2	21	.....	.....	5	4.70	119.4
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	30.02	762.4	30.09	764.3	61.0	16.1	88	14	1	2	.....	6	.....	6	2	.....	5820	9375	6	10.45	265.6
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	30.01	762.3	30.06	763.6	64.1	17.8	81	5	3	.....	.....	1	1	1	12	8	2735a	4402a	7	15.00	380.8
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.91	759.7	30.11	764.7	74.3	23.5	65	.....	.....	2	3	1	8	15	2	.....	.....	.....	7	1.89	48.0
MEXICAN.																										
Leon	N. 21 07	W. 101 35	5.22 a.m.	5901	1799	24.34	618.2	30.03	762.7	56.4	13.6	87	11	7	3	4	1	1	1	1	2	.....	.....	6	1.18	30.0
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.05	753.0	29.90	759.6	76.6	24.8	88	12	4	.....	.....	.....	.....	4	11	.....	.....	.....	4	0.11	2.8
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.98	761.4	29.98	761.4	55.2	12.9	.....	3	4	7	7	3	4	3	.....	.....	.....	.....	.....	4.61	117.0
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.88	759.0	29.94	760.4	50.5	10.3	.....	2	4	6	6	6	.....	4	3	.....	.....	.....	.....	3.22	81.9
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.93	760.2	29.93	760.2	52.5	11.4	.....	1	3	3	11	4	2	4	3	.....	.....	.....	.....	5.26	133.5
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.97	761.1	29.97	761.1	54.1	12.3	80	1	2	5	10	1	1	6	1	4	.....	.....	.....	3.98	101.0
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.93	760.2	29.98	761.4	54.3	12.4	78	3	.....	4	8	6	.....	10	.....	.....	.....	.....	7	2.95	74.9
Sub-Series.																										
Batavia	S. 6 11	E. 106 48	7.15 p.m.	?	?	29.89	759.1	.....	.....	79.2	26.2	80	17	1	.....	.....	1	1	.....	11	.....	.....	.....	7	7.06	179.2
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.64	752.9	29.71	754.5	49.1	9.5	71	3	2	2	4	14	5	.....	1	.....	.....	.....	8	9.69	246.2
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.55	750.5	29.59	751.5	45.5	7.5	70	2	2	4	11	3	6	1	1	1	.....	.....	7	4.62	117.3
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.61	752.2	29.76	756.0	46.8	8.2	70	2	4	3	9	7	4	.....	1	1	.....	.....	6	1.98	50.2
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.50	749.2	29.52	749.8	36.3	2.4	.....	3	1	4	2	5	4	3	1	8	.....	.....	8	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.49	749.0	29.54	750.2	41.9	5.5	71	1	4	6	4	3	2	2	3	6	.....	.....	8	7.68	195.0
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	66.9	19.4	82	2	2	6	4	2	4	7	4	.....	.....	.....	4	3.66	93.1
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.08	763.9	30.16	766.1	71.1	21.7	60	.....	.....	2	16	.....	8	.....	5	.....	.....	.....	6	1.99	50.5
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	312	95	29.80	756.8	30.13	765.3	64.2	17.9	61	7	5	.....	3	4	1	1	10	.....	.....	.....	4	0.77	19.6
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.21	767.4	30.28	769.2	70.0	21.1	64	3	.....	4	4	3	.....	3	7	7	.....	.....	4	2.30	60.0
San Salvador	S. 6 17	E. 14 53	1.07 p.m.	1834	559	28.10	713.8	29.93	760.2	78.8	26.0	65	3	4	2	8	3	2	.....	1	8	.....	.....	9	2.51	63.8
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.37	644.3	30.12	750.2	47.7	8.7	74	1	4	7	2	.....	5	8	2	2	.....	.....	6	21.19	538.2
RUSSIAN																										
Akmolinski	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.92	734.5	30.02	762.4	42.6	5.9	54	1	3	11	11	2	.....	2	1	.....	.....	.....	5	0.70	17.7
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.69	754.1	29.71	754.6	35.2	1.8	85	3	3	5	7	3	5	3	1	1	.....	.....	9	0.67	17.1
Ashurada	N. 36 54	E. 53 55	3.44 p.m.	79	24	30.24	768.1	30.15	765.7	71.4	21.9	71	9	15	4	.....	.....	.....	1	2	.....	.....	.....	3	1.54	39.2
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	30.26	768.6	30.19	766.7	59.5	15.3	55	4	3	6	6	2	7	2	.....	1	.....	.....	5	0.27	6.8
Baku	N. 40 21	E. 49 51	3.28 p.m.	39	12	30.21	767.4	30.17	766.2	66.4	19.1	73	9	1	.....	4	11	4	.....	2	.....	.....	.....	4	2.19	55.7
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.63	752.7	30.15	765.8	40.6	4.8	64	1	1	4	14	3	1	.....	3	4	.....	.....	8	1.08	27.5
Bielosersk	N. 60 02	E. 37 47	2.39 p.m.	430?	131?	29.34	745.2	29.82	757.3	40.1	4.5	82	.....	4	9	4	4	5	.....	1	4	.....	.....	9	2.46	62.5
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.64	752.9	29.89	759.2	46.2	7.9	78	1	4	7	8	7	2	1	1	.....	.....	.....	7	2.07	52.5
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.91	734.2	29.89	759.2	36.9	2.7	74	2	4	5	9	6	2	.....	1	2	.....	.....	8	1.55	39.3
Elissawetgrad	N. 48 31	E. 32 17	2.17 p.m.	417?	127?	29.69	754.2	30.15	765.7	56.3	13.5	63	1	6	5	3	6	3	4	3	.....	.....	.....	6	1.63	41.4
Irkutsk	N. 52 16	E. 104 16	7.05 p.m.	1536	468	28.56	725.5	30.25	768.3	39.4	4.1	66	2	2	.....	.....	1	6	3	.....	17	.....	.....	3	0.02	0.5
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.06	753.4	29.93	760.3	44.4	6.9	70	2	3	7	9	5	3	1	1	.....	.....	.....	8	0.84	21.3
Kem	N. 64 57	E. 34 39	2.26 p.m.	43	13	29.64	752.8	29.69	754.1	36.9	2.7	79	2	3	11	6	4	1	1	.....	3	.....	.....	8	1.17	29.7
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	30.11	764.7	30.13	765.3	61.2	16.2	64	8	2	2	.....	.....	3	3	4	9	.....	.....	4	0.34	8.7
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.43	747.6	30.08	763.9	52.7	11.5	64	1	3	9	5	1	8	.....	4	.....	.....	.....	6	1.70	43.3
Koslov	N. 52 53	E. 40 31	2.50 p.m.	466?	142?	29.52	749.7	30.02	762.6	47.7	8.7	75	3	4	8	7	6	1	.....	.....	2	.....	.....	7	3.80	96.5
Libau	N. 56 31	E. 21 01	1.32 p.m.	20	6	29.90	759.4	29.92	760.0	50.0	10.0	74	2	1	9	6	4	5	2	1	1	.....	.....	6	3.68	93.5
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.90	759.4	30.10	764.5	59.4	15.2	53	2	2	7	8	4	3	2	3	.....	.....	.....	5	1.48	37.5
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.48	748.8	29.96	761.1	46.6	8.1	69	4	6	6	9	3	.....	.....	1	2	.....	.....	8	0.97	24.7
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	30.07	763.7	30.14	765.5	59.9	15.5	68	2	2	2	5	6	1	2	5	6	.....	.....	4	0.63	16.1
Nikolaievsk	N. 53 08	E. 140 45	9.31 p.m.	59	18	29.86	758.3	29.94	760.5	35.4	1.9	79	1	3	5	.....	.....	.....	1	1	20	.....	.....	5	.....	.....
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	30.01	762.3	30.15	765.9	56.5	13.6	73	.....	3	.....	4	.....	2	.....	.....	22	.....	.....	3	1.12	28.5
Petro-Alexandrovsk	N. 41 28	E. 61 05	4.12 p.m.	328	100	29.88	758.8	30.22	767.7	62.8	17.1	34	2	1	3	.....	1	1	3	5	15	.....	.....	2	.....	.....
Petrozavodsk	N. 61 47	E. 34 23	2.26 p.m.	180?	55?	29.55	750.5	29.75	755.6	39.0	3.9	78	1	12	1	6	4	3	1	2	1	.....	.....	7	4.07	103.3
Pinsk	N. 52 07	E. 26 06	1.52 p.m.	459?	140?	29.57	751.0	30.07	763.7	51.3	10.7	71	2	3	7	5	5	4	2	3	.....	.....	.....	7	2.07	52.6
Poti	N. 42 09	E. 41 37	2.54 p.m.	466?	142?	30.03	762.7	30.06	763.5	73.8	23.2	80	.....	5	1	3	5	.....	13	.....	4	.....	.....	4	4.25	108.0
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	20	6	29.80	756.9	29.82	757.5	44.4	6.9	73	2	6	7	5	5	2	1	3	.....	.....	.....	7	2.13	54.1
Samarkand	N. 39 39	E. 66 57	4.36 p.m.	2379?	725?	27.74	704.6	30.21	767.3	58.3	14.6	55	.....	.....	2	.....	.....	8	.....	.....	21	.....	.....	2	1.68	42.6

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for October, 1883. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
RUSSIAN.—Cont'd	° ′	° ′																								
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.54	750.4	30.22	767.5	44.8	7.1	50	4	2	5	4	4	4	.....	.....	8	.....	.....	5	0.14	3.5
Sevastopol	N. 44 37	E. 33 31	2.22 p.m.	138?	42?	29.89	759.1	30.10	764.4	65.7	18.7	58	6	5	3	6	5	.....	.....	6	.....	.....	.....	3	0.82	20.7
Staroi Bykhov	N. 53 31	E. 30 16	2.09 p.m.	423?	129?	29.48	748.8	30.04	763.0	50.4	10.2	66	2	1	3	5	7	7	2	4	.....	.....	.....	8	2.57	65.3
Tashkend	N. 41 20	E. 69 18	4.45 p.m.	1607?	490?	28.52	724.3	30.17	766.4	62.2	16.8	46	1	2	1	1	.....	.....	1	.....	25	.....	.....	4	0.93	23.6
Vernoe	N. 43 16	E. 76 53	5.16 p.m.	2401?	732?	27.62	701.5	30.14	765.6	50.2	10.1	58	2	1	.....	.....	.....	1	1	2	24	.....	.....	3	1.15	29.1
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1313	409	28.74	730.1	30.13	765.4	68.4	20.2	51	2	6	.....	2	6	10	.....	1	4	.....	.....	3	1.59	40.3
Viatka	N. 58 36	E. 49 41	3.27 p.m.	581?	177?	29.19	741.5	29.84	757.8	38.3	3.5	84	1	7	11	4	3	4	.....	.....	1	.....	.....	6	1.82	46.2
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.62	752.2	30.04	763.1	51.6	10.9	75	2	....	11	3	6	5	1	1	2	.....	.....	7	1.20	30.6
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.84	757.9	30.14	765.5	31.6	−0.2	84	2	3	12	5	3	1	1	1	3	.....	.....	9	2.02	51.3
SPANISH.																										
Barcelona	N. 41 23	E. 2 15	0.16 p.m.	98	30	29.95	760.7	30.06	763.4	68.0	20	70	....	.....	7	6	5	5	6	2	.....	3230	5198	5	3.34	84.7
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.08	764.1	30.14	765.6	66.2	19.0	69	.....	12	.....	1	3	9	1	.....	5	1615	2599	7	6.06	153.8
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.18	690.3	30.15	765.8	55.8	13.2	70	7	.....	5	5	5	1	1	7	.....	3798	6113	6	1.62	41.2
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.91	708.8	30.12	765.0	61.9	16.6	61	2	1	2	4	10	2	5	5	.....	6446	10373	6	1.94	49.3
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.93	760.3	30.08	763.9	65.8	18.8	61	.....	6	1	6	4	2	4	8	.....	1597	2570	7	0.77	19.5
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.37	746.0	30.12	765.0	54.7	12.6	82	.....	2	.....	.....	15	6	8	.....	.....	.....	.....	8	4.48	113.8
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.20	741.6	30.09	764.2	61.2	16.2	74	6	3	.....	11	1	4	.....	4	2	6006	9666	7	3.98	101.1
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.93	760.3	30.00	761.9	75.5	24.2	84	.....	.....	.....	.....	4	16	10	1	.....	.....	.....	3	3.95	100.3
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.80	758.5	29.92	759.9	78.7	25.9	84	4	3	1	1	2	5	4	10	1	4249	6838	6	5.67	144.0
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	30.01	762.0	30.11	764.8	67.8	19.9	66	2	3	12	.....	4	4	5	1	.....	.....	.....	4	4.56	115.8
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.90	759.4	29.99	761.7	79.5	26.4	88	.....	.....	.....	.....	.....	6	.....	.....	25	.....	.....	3	5.55	141.0
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.65	753.1	29.69	754.1	37.8	3.2	86	5	2	4	4	9	3	.....	1	3	.....	.....	6	2.40	61.0
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.66	753.3	29.71	754.6	42.3	5.7	74	4	8	1	10	4	.....	.....	1	3	.....	.....	6	2.41	61.1
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.66	753.4	29.71	754.7	45.3	7.4	69	3	3	1	3	6	1	1	3	10	.....	.....	6	1.57	39.8
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.65	753.2	29.83	757.7	46.6	8.1	72	3	1	7	11	5	1	.....	2	1	.....	.....	6	2.09	53.1
Wisby *a*	N. 57 39	E. 18 19	1.21 p.m.	52	16	29.80	756.8	29.85	758.3	48.7	9.3	79	1	3	11	2	7	1	2	3	.....	.....	.....	6	2.43	61.7
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.72	754.8	29.80	757.0	45.7	7.6	75	2	5	4	7	11	.....	.....	2	.....	.....	.....	6	1.98	50.2
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.68	728.4	30.11	764.7	54.0	12.2	71	15	1	5	.....	9	1	.....	.....	.....	.....	.....	8	4.00	101.5
TURKISH.																										
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	30.10	764.4	68.2	20.1	64	14	1	1	4	2	1	....	8	.....	.....	.....	6	1.30	33.1
Valona	N. 40 27	E. 19 27	1.26 p.m.	105	32	.....	.....	30.13	765.2	69.3	20.7	.....	.....	12	5	6	2	2	.....	4	.....	.....	.....	5	7.52	191.0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.98	761.4	79.9	26.6	61.1	3	4	4	7	.....	.....	....	13	.....	.....	.....	3	2.12	53.8
Samakov *g*	N. 42 12	E. 23 45	1.42 p.m.	?	?	26.76	679.7	.....	.....	63.7	17.6	77	1	.....	1	2	.....	1	.....	.....	19	.....	.....	7	6.64	168.7
UNITED STATES.																										
Albany	N. 42 39	W. 73 45	7.13 a.m.	75	23	30.13	765.3	30.21	767.3	47.0	8.3	73.2	7	2	4	3	10	.....	1	4	.....	4062	6537	6	3.49	88.6
Alpena	N. 45 05	W. 83 30	6.34 a.m.	609	185	29.47	748.5	30.14	765.5	38.8	3.8	84.7	3	9	6	2	3	4	2	1	1	6865	11048	6	3.38	85.9
Apache, Fort	N. 33 48	W. 109 57	4.48 a.m.	5050	1539	25.00	635.0	29.90	759.4	38.1	3.4	74.9	.....	.....	.....	2	.....	6	14	1	8	4263	6860	3	1.39	35.3
Assinaboine, Ft	N. 48 32	W. 109 42	4.49 a.m.	2710	826	27.13	689.1	30.05	763.3	33.4	0.8	74.2	2	3	1	13	4	1	2	4	1	7033	11318	6	0.98	24.9
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1129	344	28.97	735.8	30.16	766.1	59.3	15.2	89.1	.....	6	1	3	.....	4	13	4	.....	6070	9778	4	1.52	38.6
Atlantic City	N. 39 22	W. 74 25	7.10 a.m.	13	4	30.16	766.1	30.16	766.1	53.2	11.8	82.5	12	.....	1	.....	4	2	3	5	4	7083	11399	6	6.18	157.0
Augusta *a*	N. 33 28	W. 81 54	6.40 a.m.	183	56	29.98	761.5	30.17	766.3	62.0	16.7	83.4	4	3	.....	3	.....	1	2	9	9	3388	5452	6	1.69	42.9
Baltimore	N. 39 18	W. 76 37	7.02 a.m.	45	14	30.17	766.3	30.22	767.6	53.8	12.1	79.2	10	2	3	.....	3	3	4	6	.....	4213	6780	6	2.83	71.9
Barnegat City	N. 39 46	W. 74 06	7.12 a.m.	22	7	30.16	766.1	30.18	766.6	53.7	12.1	81.1	8	1	2	1	3	2	6	6	2	11304	18192	6	6.51	165.4
Bennett, Fort	N. 44 43	W. 100 39	5.26 a.m.	1510	457	28.44	722.4	30.06	763.5	36.0	2.2	82.1	2	9	1	.....	.....	12	.....	3	4	6285	10114	7	1.19	30.2
Benton, Fort	N. 47 50	W. 110 40	4.45 a.m.	2700	823	27.22	691.4	30.13	765.3	35.0	1.7	71.3	2	.....	1	3	3	.....	.....	2	20	3428	5517	7	1.64	41.7
Bismarck *c*	N. 46 47	W. 100 38	5.26 a.m.	1694	516	28.18	715.8	30.06	763.5	36.1	2.3	88.1	3	4	2	.....	1	7	7	3	1	6696	10776	7	3.88	98.6
Block Id	N. 41 10	W. 71 36	7.22 a.m.	27	8	30.16	766.1	30.19	766.8	50.3	10.2	81.9	7	.....	2	2	2	1	3	13	1	11854	19077	4	7.38	187.4
Boise City	N. 43 37	W. 116 08	4.24 a.m.	2750	838	27.21	691.1	30.07	763.8	36.7	2.6	89.2	3	11	5	....	.....	3	3	2	4	2113	3400	6	4.06	103.1
Boston	N. 42 21	W. 71 04	7.24 a.m.	142	43	30.04	763.0	30.20	767.1	44.2	6.8	82.2	4	9	7	4	1	2	.....	2	2	6777	10906	5	6.40	162.6
Brownsville	N. 25 53	W. 97 26	5.38 a.m	57	17	29.92	760.0	29.98	761.5	73.4	23.0	90.4	3	.....	.....	.....	7	7	.....	.....	14	4648	7480	5	1.68	41.9
Buffalo	N. 42 53	W. 78 53	6.52 a.m.	096	212	29.38	746.2	30.14	765.5	45.6	7.6	82.2	4	1	3	2	2	4	2	13	.....	7007	11276	6	3.58	90.9
Buford, Fort	N. 48 00	W. 103 56	5.12 a.m.	1930	588	27.94	709.7	30.05	763.3	32.8	0.4	87.0	3	.....	9	....	1	4	7	5	2	6350	10229	7	1.41	35.8
Cairo	N. 37 00	W. 89 10	6.11 a.m.	377	115	29.72	754.9	30.12	765.0	55.8	13.2	87.2	7	2	.....	4	3	4	1	8	2	6211	9995	6	6.97	177.0
Canby, Fort	N. 46 16	W. 124 04	3.52 a.m.	179	54	29.80	756.9	30.00	762.0	49.7	9.8	92.6	7	3	4	1	3	5	7	1	.....	7307	11759	6	5.65	143.5
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.14	765.5	30.16	766.1	60.3	15.7	84.0	10	.....	2	1	5	2	1	9	.....	12022	19347	6	7.86	199.6
Cape May	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.14	765.5	30.17	766.3	54.2	12.3	80.1	8	1	1	2	4	3	.....	12	.....	10186	16382	6	8.63	219.2
Cape Mendocino	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.33	745.0	30.02	762.5	50.4	10.2	85.5	6	14	1	.....	.....	7	....	2	1	14597	13491	3	2.12	53.8
Cedar Keys	N. 29 08	W. 83 02	6.36 a.m.	22	7	30.06	763.5	30.08	764.0	72.8	22.7	88.0	11	1	2	2	1	2	2	8	2	5535	8908	3	0.23	5.8
Charleston	N. 32 47	W. 79 56	6.48 a.m.	52	16	30.05	763.3	30.11	764.8	65.5	18.6	91.7	6	.....	4	3	.....	.....	1	17	.....	6597	10617	6	1.33	33.8
Charlotte	N. 35 13	W. 80 51	6.44 a.m.	808	246	29.31	744.5	30.17	766.3	57.5	14.2	86.3	5	1	2	4	1	1	5	12	.....	3942	6344	8	4.31	109.5
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.31	744.5	30.14	765.5	59.2	15.1	89.7	1	2	1	4	7	3	1	7	5	3705	5962	6	3.93	99.8
Cheyenne	N. 41 08	W. 104 48	5.09 a.m.	6089	1856	23.97	608.8	30.01	762.2	33.1	0.6	69.5	4	10	7	.....	8	....	1	1	.....	6991	11251	4	1.66	42.2
Chicago	N. 41 52	W. 87 38	6.18 a.m.	661	201	29.39	746.5	30.10	764.5	49.0	9.4	77.8	3	3	2	4	1	4	5	5	4	5925	9535	7	7.36	186.9
Chincoteague	N. 37 55	W. 75 23	7.06 a.m.	18	5	30.14	765.5	30.16	766.1	56.4	13.6	87.3	8	5	.....	1	3	3	3	7	1	9010	14500	6	6.05	168.9
Cincinnati	N. 39 06	W. 84 30	5.30 a.m.	620	189	29.47	748.5	30.13	765.3	55.2	12.9	81.3	3	3	1	5	3	4	2	10	.....	4048	6514	6	8.39	213.1
Cleveland	N. 41 30	W. 81 42	6.41 a.m.	690	210	29.38	746.2	30.12	765.0	48.8	9.3	74.9	3	1	1	3	5	7	6	5	.....	6072	9772	7	3.56	90.4
Columbus	N. 39 58	W. 83 00	6.36 a.m.	805	245	29.26	743.2	30.12	765.0	50.6	10.3	82.6	7	6	1	2	3	4	4	4	.....	5258	8462	7	6.11	155.2
Concho, Fort	N. 31 25	W. 100 24	5.26 a.m.	1900	579	28.09	713.5	30.04	763.0	59.8	15.4	89.1	2	2	3	.....	9	2	3	6	4	6572	10576	8	8.02	203.7
Custer, Fort	N. 45 42	W. 107 34	4.58 a.m.	3040	926	26.82	681.2	30.06	763.5	32.7	0.4	77.8	5	5	6	1	1	5	2	6	.....	4088	7544	7	0.97	24.6
Davenport	N. 41 30	W. 90 38	6.06 a.m.	615	187	29.44	747.8	30.10	764.5	46.0	7.8	81.1	5	3	3	2	1	4	5	8	.....	6331	10189	7	5.13	130.3
Davis, Fort	N. 30 38	W. 103 56	5.12 a.m.	4940	1506	25.20	640.1	30.05	763.3	53.2	11.8	75.2	4	2	.....	4	1	6	.....	2	12	3431	5522	3	0.42	10.7
Dayton	N. 46 19	W. 117 56	4.16 a.m.	1667	508	28.26	717.8	30.00	763.5	39.3	4.1	81.6	.....	1	.....	7	5	.....	4	11	3	4206	6769	5	1.44	36.6
Deadwood *a*	N. 44 23	W. 103 43	5.13 a.m.	4600	1402	25.34	643.6	30.02	762.5	36.5	2.5	80.7	1	2	2	1	3	1	3	3	14	2513	4044	4	0.80	20.3
Del. Breakwater	N. 38 48	W. 75 10	7.07 a.m.	20	6	30.15	765.8	30.17	766.3	55.9	13.3	85.4	7	1	1	3	4	3	3	9	.....	13081	21051	6	5.12	130.0
Denver	N. 39 45	W. 105 00	5.08 a.m.	5294	1614	24.70	627.4	29.96	761.0	39.1	3.9	70.3	2	7	3	....	10	3	1	1	4	4789	7707	5	1.49	37.8
Des Moines	N. 41 35	W. 93 37	5.54 a.m.	849	259	29.20	741.7	30.12	765.0	43.9	6.6	81.7	9	3	2	1	4	7	2	2	1	4175	6719	6	4.42	112.3
Detroit	N. 42 20	W. 83 03	6.36 a.m.	661	201	29.42	747.3	30.13	765.3	47.4	8.6	83.7	5	7	3	1	1	4	5	5	.....	7165	11531	7	2.55	64.8
Dodge City	N. 37 45	W. 100 00	5.28 a.m.	2512	766	27.41	696.2	30.04	763.0	44.9	7.2	81.1	5	8	3	.....	2	7	3	2	1	9729	15657	6	3.32	84.3
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.41	747.0	30.13	765.3	44.2	6.8	78.0	5	5	4	.....	2	4	2	6	3	3670	6228	7	4.44	112.8
Duluth	N. 46 48	W. 92 06	6.00 a.m.	644	184	29.35	745.5	30.11	764.8	40.8	4.9	79.3	5	4	6	6	1	1	4	3	1	6484	10435	8	3.19	81.0
Eastport	N. 44 54	W. 66 59	7.40 a.m.	61	18	30.09	764.3	30.16	766.1	42.7	5.9	78.4	9	3	2	2	6	1	1	3	4	7214	11610	4	8.43	214.1
Elliott, Fort	N. 35 30	W. 100 21	5.27 a.m.	2650	808	27.25	692.1	30.04	763.0	49.3	9.5	85.9	6	2	1	3	4	5	1	5	4	8684	13975	5	5.32	135.1
El Paso	N. 31 47	W. 106 30	5.02 a.m.	3764	1147	26.29	667.8	30.03	762.7	51.1	10.6	72.2	2	7	4	.....	.....	2	4	1	11	2944	4738	2	2.03	51.6
Erie	N. 42 07	W. 80 05	6.48 a.m.	681	208	29.41	747.0	30.14	765.5	49.3	9.6	81.5	4	1	2	5	8	4	2	3	2	6240	10042	7	4.00	101.6
Escanaba	N. 45 48	W. 87 05	6.20 a.m.	612	186	29.45	748.0	30.12	765.0	40.4	4.7	84.3	12	2	4	1	3	3	3	1	2	7157	11518	6	3.93	99.8
Fort Smith	N. 35 22	W. 94 24	5.50 a.m.	451	137	29.57	751.1	30.05	763.3	58.9	14.9	88.3	2	1	1	.....	.....	1	13	.....	13	3799	6114	7	7.29	185.2
Galveston	N. 29 18	W. 94 47	5.49 a.m.	40	12	29.98	761.5	30.02	762.5	74.5	23.6	82.7	1	.....	1	5	9	6	4	5	.....	7559	12165	6	6.78	172.2
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.42	747.3	30.10	764.5	43.8	6.6	85.0	3	1	1	1	2	4	7	12	.....	8208	13209	7	3.67	93.2
Grant, Fort	N. 32 39	W. 109 57	4.48 a.m.	4860	1481	25.21	640.3	29.91	759.7	50.1	10.1	54.0	5	3	1	.....	1	5	4	12	.....	4047	6513	2	1.21	30.7
Hatteras	N. 35 15	W. 75 40	7.05 a.m.	19	6	30.11	764.8	30.12	765.0	64.2	17.9	91.2	4	2	1	1	1	2	2	18	.....	9755	15699	7	3.89	98.8
Helena	N. 46 34	W. 112 04	4.40 a.m.	4100	1250	25.75	654.0	30.05	763.3	34.8	1.6	80.1	8	3	1	12	1	2	.....	4	.....	3348	5372	6	blank	blank
Huron	N. 44 21	W. 98 09	5.35 a.m.	1305	398	28.65	727.7	30.08	764.0	38.1	3.4	82.5	3	7	6	1	.....	11	1	2	.....	6953	11189	7	1.96	49.8
Indianapolis	N. 39 46	W. 86 10	6.23 a.m.	753	229	29.28	743.7	30.08	764.0	50.7	10.4	79.7	2	2	2	1	5	3	1	6	9	2444	3933	7	8.56	217.4
Indianola	N. 28 32	W. 96 31	5.42 a.m.	26	8	29.99	761.7	30.02	762.5	74.0	23.3	89.5	3	1	.....	1	12	6	3	5	.....	10256	16505	5	2.46	62.5
Jacksonville	N. 30 20	W. 81 39	6.42 a.m.	43	13	30.05	763.3	30.09	764.3	70.6	21.4	88.5	8	2	.....	2	5	.....	3	10	1	5281	8499	4	7.26	184.4
Keokuk	N. 40 22	W. 91 26	6.02 a.m.	618	188	29.44	747.8	30.12	765.0	46.7	8.2	85.3	5	6	3	1	.....	3	7	5	1	5821	9368	6	6.95	176.5
Key West	N. 24 34	W. 81 49	6.41 a.m.	20	6	29.98	761.5	30.00	762.0	78.4	25.8	85.3	.....	.....	.....	1	1	3	8	14	4	5584	8986	5	19.77	502.2
Kittyhawk	N. 36 00	W. 75 42	7.05 a.m.	22	7	30.13	765.3	30.15	765.8	62.5	16.9	84.8	2	3	.....	3	1	2	5	14	1	13630	21935	6	3.80	96.5
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.10	739.1	30.14	765.5	57.1	13.9	92.9	5	.....	.....	8	.....	.....	3	9	6	3716	5980	6	4.66	118.4
La Crosse	N. 43 49	W. 91 15	6.03 a.m.	725	221	29.33	745.0	30.12	765.0	41.9	5.5	76.5	6	5	4	2	7	3	1	2	1	5442	8758	6	1.68	42.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for October, 1883.																				Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.															
						Actual.		Reduced.					Directions.									Total Movement.						
				Feet.	Metr's	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0–10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																										
Leavenworth	N. 39 19	W. 94 57	5.48 a.m.	842	256	29.19	741.4	30.09	764.3	47.2	8.4	83.8	6	4	.....	.....	4	4	6	3	4	4645	7475	6	8.31	211.0
Lewiston	N. 46 28	W. 117 05	4.20 a.m.	780	238	29.20	741.7	30.05	763.3	42.4	5.8	75.6	.....	3	1	2	.....	5	1	5	14	1737	2795	4	1.84	46.7
Little Rock	N. 34 45	W. 92 06	6.00 a.m.	298	91	29.75	755.5	30.07	763.8	61.7	16.5	87.5	2	3	1	4	2	3	4	7	5	4134	6653	7	5.55	141.0
Los Angeles	N. 34 03	W. 118 15	4.15 a.m.	371	113	29.60	751.8	30.00	762.0	53.7	12.1	80.2	4	4	1	1	.....	1	3	15	2	4544	7314	5	1.42	36.1
Louisville	N. 38 15	W. 85 45	6.25 a.m.	530	162	29.52	749.8	30.09	764.3	55.1	12.8	83.3	11	3	1	5	3	1	2	4	1	6073	9774	7	8.05	204.5
Lynchburg	N. 37 25	W. 79 09	6.52 a.m.	652	199	29.47	748.5	30.16	766.1	54.9	12.7	79.5	1	1	1	2	2	.....	3	11	10	2106	3480	7	4.47	113.5
Mackinaw City	N. 45 47	W. 84 39	6.30 a.m.	605	184	29.47	748.5	30.14	765.5	42.6	5.9	73.3	4	3	2	6	7	2	4	3	.....	7285	11724	8	2.40	61.0
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.12	765.0	30.13	765.3	63.3	17.4	90.1	12	4	2	.....	2	2	1	8	.....	11849	19069	7	2.83	71.9
Maginnis, Fort	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.51	647.9	29.96	761.0	32.1	0.1	69.0	2	11	7	1	1	3	5	1	.....	6655	10710	4	4.00	103.1
Marquette	N. 46 34	W. 87 24	6.18 a.m.	673	205	29.38	746.2	30.12	765.0	40.4	4.7	75.9	6	3	8	3	5	2	.....	.....	4	6021	9690	7	2.58	65.5
Memphis	N. 35 09	W. 90 03	6.08 a.m.	321	98	29.74	755.4	30.08	764.0	60.9	16.1	89.9	4	4	1	5	3	5	2	6	1	4369	2031	7	8.56	217.4
Milwaukee	N. 43 02	W. 87 54	6.16 a.m.	697	212	29.35	745.5	30.11	764.8	45.6	7.6	79.2	7	5	3	4	2	2	4	4	.....	9542	15356	7	1.92	48.8
Mobile	N. 30 41	W. 88 02	6.16 a.m.	41	12	30.05	763.3	30.09	764.3	67.0	19.4	86.6	12	.....	3	1	1	2	5	3	4	4484	7216	5	0.84	21.3
Montgomery	N. 32 23	W. 86 18	6.23 a.m.	219	66	29.89	759.2	30.12	765.0	64.3	17.9	83.8	1	2	.....	7	1	6	5	6	3	3934	6331	5	2.00	50.8
Moorhead	N. 46 52	W. 96 44	5.41 a.m.	923	281	29.06	738.1	30.08	764.0	33.5	0.8	90.5	5	2	3	.....	2	10	4	3	2	8057	12966	6	3.22	81.8
Mt. Washington	N. 44 16	W. 71 18	7.23 a.m.	6279	1914	23.82	605.0	30.16	766.1	28.0	—2.2	94.1	1	12	5	3	3	2	2	3	.....	.....	.....	3	5.55	141.0
Nashville	N. 36 10	W. 86 47	6.21 a.m.	549	167	29.51	749.5	30.09	764.3	58.9	14.9	88.7	4	2	3	4	2	5	6	5	.....	4751	7646	7	5.27	133.9
New Haven	N. 41 18	W. 72 56	7.16 a.m.	107	32	30.08	764.0	30.20	767.1	44.3	6.8	81.5	15	3	2	2	2	.....	.....	7	.....	5772	9289	5	5.87	149.1
New London	N. 41 21	W. 72 05	7.20 a.m.	47	14	30.18	766.6	30.22	767.6	48.0	8.9	81.3	10	1	2	3	1	1	2	5	6	4432	7132	4	7.33	186.2
New Orleans	N. 29 58	W. 90 04	6.08 a.m.	52	16	30.00	762.0	30.05	763.3	71.3	21.8	85.5	2	4	2	5	1	3	5	8	1	4896	7879	4	3.43	87.1
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	30.03	762.7	30.21	767.3	50.2	10.1	75.6	4	1	3	3	3	1	5	7	4	5091	8192	5	4.27	108.5
Norfolk	N. 36 51	W. 76 17	7.03 a.m.	30	9	30.12	765.0	30.15	765.8	59.7	15.4	84.2	9	2	2	2	3	1	2	9	1	5950	9575	5	3.79	96.3
North Platte	N. 41 08	W. 100 45	5.25 a.m.	2841	866	27.09	688.1	30.05	763.3	39.1	3.9	84.4	3	3	3	1	4	5	4	3	5	7402	12009	6	3.47	88.1
Olympia	N. 47 03	W. 122 53	3.57 a.m.	36	11	29.97	761.2	30.01	762.2	45.2	7.3	90.6	.....	.....	.....	.....	9	.....	.....	1	21	2039	3281	7	3.73	94.7
Omaha	N. 41 16	W. 95 56	5.44 a.m.	1113	339	28.92	734.6	30.12	765.0	44.3	6.8	85.7	9	2	2	1	3	8	3	.....	3	4383	7054	6	5.03	127.8
Oswego	N. 43 29	W. 76 35	7.02 a.m.	304	93	29.82	757.4	30.15	765.8	46.8	8.2	73.7	2	1	2	1	7	14	.....	4	.....	6232	10029	7	1.94	49.3
Palestine	N. 31 45	W. 95 40	5.45 a.m.	533	162	29.51	749.5	30.07	763.8	64.0	17.8	87.8	2	1	2	.....	11	2	4	4	.....	.....	.....	8	4.47	113.5
Pensacola	N. 30 25	W. 87 13	6.19 a.m.	30	9	30.06	763.5	30.09	764.3	67.4	19.7	85.4	6	4	1	8	1	.....	4	6	1	5830	9382	3	1.91	48.5
Philadelphia	N. 39 57	W. 75 09	7.07 a.m.	92	28	30.10	764.5	30.20	767.1	51.1	10.6	85.4	7	3	.....	5	2	.....	3	11	.....	5250	8449	5	4.20	106.7
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	17.72	450.1	30.00	762.0	13.5	—10.3	83.0	1	6	11	13	.....	.....	.....	.....	.....	18132	29180	2	0.15	3.8
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	766	233	29.33	715.0	30.15	765.8	50.8	10.4	80.5	3	5	3	2	2	2	2	8	4	3476	5594	6	2.43	61.7
Port Huron	N. 43 00	W. 82 26	6.38 a.m.	633	193	29.41	747.0	30.10	764.5	43.5	6.4	84.4	3	2	2	1	6	.....	7	6	4	6614	10644	7	3.47	88.1
Portland, Maine	N. 43 39	W. 70 15	7.27 a.m.	45	14	30.12	765.0	30.18	766.6	44.0	7.0	76.2	13	2	6	4	2	.....	.....	3	1	4816	7750	5	3.51	89.2
Portland, Oreg	N. 45 32	W. 122 43	3.57 a.m.	67	20	29.95	761.0	30.03	762.7	47.4	8.6	89.4	2	2	4	1	9	2	1	.....	10	3730	6003	7	3.91	99.3
Prescott	N. 34 33	W. 112 28	4.38 a.m.	5340	1628	24.74	628.4	29.90	759.4	39.1	3.9	70.6	.....	.....	2	18	7	1	1	.....	1	4993	8035	2	0.43	10.9
Provincetown	N. 42 03	W. 70 11	7.27 a.m.	26	8	30.16	766.1	30.19	766.8	49.1	9.5	75.3	7	3	2	1	4	1	5	6	2	7058	11359	4	7.45	189.2
Red Bluff	N. 40 10	W. 122 15	3.59 a.m.	332	101	29.65	753.1	30.01	762.2	50.9	10.5	74.5	17	6	.....	1	2	.....	.....	2	3	4783	7697	2	2.08	68.1
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.80	756.9	30.04	763.0	71.4	21.9	87.9	3	.....	.....	.....	1	19	4	.....	4	5098	8204	4	0.22	5.6
Rochester	N. 43 08	W. 77 42	6.57 a.m.	621	189	29.49	749.0	30.16	766.1	44.8	7.1	83.4	.....	1	4	3	3	4	2	5	.....	5223	8405	8	1.36	34.5
Roseburg	N. 43 13	W. 123 20	3.55 a.m.	511	156	29.51	749.5	30.07	763.8	45.6	7.6	86.9	4	.....	.....	2	2	7	4	2	10	1999	3217	7	2.84	72.1
Sacramento	N. 38 35	W. 121 30	4.02 a.m.	65	20	29.92	760.0	30.00	762.0	50.8	10.4	84.1	2	7	.....	1	7	10	2	1	1	3988	6418	2	0.97	24.6
Saint Louis	N. 38 38	W. 90 12	6.07 a.m.	583	178	29.49	749.0	30.11	764.8	51.5	10.8	88.6	5	3	3	3	2	4	3	8	.....	8430	13566	7	6.00	167.6
Saint Michael, Ft	N. 63 48	W. 162 00	1.20 a.m.	30	9	29.57	751.1	29.61	752.1	32.2	0.1	90.5	2	.....	7	1	6	10	2	2	1	10750	16214	8	1.66	42.2
Saint Paul	N. 44 58	W. 93 03	5.56 a.m.	801	244	29.23	742.4	30.10	764.5	40.5	4.7	79.2	1	2	5	1	5	9	.....	.....	8	5019	8077	7	1.10	27.9
Saint Vincent	N. 48 56	W. 97 14	5.39 a.m.	804	245	29.10	740.7	30.06	763.5	32.1	0.1	90.3	1	9	.....	4	2	11	.....	.....	4	3524	5671	6	3.90	99.1
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.61	650.5	30.01	762.2	41.3	5.2	62.4	2	1	1	.....	.....	12	4	4	7	3746	6028	5	2.24	56.9
San Diego	N. 32 43	W. 117 10	4.19 a.m.	67	20	29.90	759.4	29.98	761.5	57.1	13.9	77.5	9	6	3	2	1	1	3	6	.....	4591	7388	5	2.01	51.1
Sanford	N. 28 48	W. 81 23	6.42 a.m.	50	15	29.99	761.7	30.04	763.0	71.7	22.1	91.4	1	5	1	5	2	1	.....	15	1	5030	8095	5	8.38	212.9
Sandusky	N. 41 25	W. 82 40	6.37 a.m.	639	195	29.44	747.8	30.14	765.5	49.6	9.8	79.3	4	.....	3	10	4	3	2	5	.....	10260	16512	6	4.88	123.9
Sandy Hook	N. 40 28	W. 74 00	7.12 a.m.	28	8	30.16	766.1	30.20	767.1	52.4	11.3	78.0	1	3	1	2	5	2	8	9	.....	11657	18760	5	5.20	132.1
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.94	760.5	30.01	762.2	53.6	12.0	88.7	4	3	6	14	1	.....	.....	.....	3	5665	9278	3	1.48	37.6
Savannah	N. 32 05	W. 81 05	6.44 a.m.	87	26	30.03	762.7	30.12	765.0	65.2	18.4	85.1	15	3	3	1	1	.....	1	6	1	5411	8708	5	1.41	35.8
Shaw, Fort	N. 47 31	W. 111 48	4.41 a.m.	3550	1082	26.35	669.3	30.05	763.3	31.8	—0.1	84.6	3	2	18	2	.....	.....	1	.....	5	6137	9876	5	2.22	56.4
Shreveport	N. 32 30	W. 93 40	5.53 a.m.	227	69	29.77	756.1	30.01	762.2	64.3	17.9	85.5	2	2	2	1	13	3	2	5	1	4435	7137	7	0.97	24.6
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.84	757.9	29.91	759.7	43.8	6.6	79.6	1	2	5	1	1	3	14	3	1	5337	8589	7	13.31	338.1
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.08	764.0	30.12	765.0	62.2	16.8	88.2	12	2	2	1	2	1	2	9	.....	7049	12310	7	1.19	30.2
Spokane Falls	N. 47 40	W. 117 25	4.18 a.m.	1910?	582?	27.97	710.4	30.05	763.3	37.7	3.2	75.5	9	.....	3	7	4	.....	.....	.....	8	2648	4262	4	1.48	37.6
Springfield, Ill	N. 39 48	W. 89 39	6.10 a.m.	644	196	29.42	747.3	30.11	764.8	49.3	9.6	81.8	5	4	4	.....	3	5	4	6	.....	6617	10649	7	6.08	154.4
Stockton, Fort	N. 30 53	W. 102 53	5.16 a.m.	3010	917	27.01	680.0	30.04	763.0	56.5	13.6	82.6	1	3	1	11	2	8	2	3	.....	6128	9862	5	0.51	13.0
Tatoosh Id	N. 48 23	W. 124 44	3.21 a.m.	86	26	29.89	759.2	.....	.....	46.5	8.1	94.1	1	1	4	4	1	2	15	1	2	8209	13211	6	4.30	109.2
Thomas, Camp	N. 33 04	W. 110 02	4.48 a.m.	2710	826	27.26[l]	692.4[l]	29.97[l]	761.2[l]	43.1	6.2	44.3	1	.....	5	.....	3	8	2	.....	12	.....	.....	2	0.52	13.2
Toledo	N. 41 40	W. 83 34	6.34 a.m.	651	198	29.41	747.0	30.11	764.8	48.5	9.2	77.1	10	1	2	2	5	2	5	3	1	6700	10782	7	3.68	93.5
Unalashka	N. 53 53	W. 166 32	1.02 a.m.	13	4	29.82	757.4	29.84	757.9	42.5	5.8	76.6	.....	6	1	10	10	2	.....	1	1	8668	13950	7	6.15	156.2
Vicksburg	N. 32 22	W. 90 53	6.04 a.m.	244	74	29.82	757.4	30.08	764.0	65.4	18.6	86.6	7	1	.....	.....	9	6	3	1	4	4161	6696	5	4.84	122.9
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	30.09	764.3	30.21	767.3	52.1	11.2	84.3	8	3	.....	2	3	1	2	5	7	3088	4970	7	2.63	66.8
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.02	660.9	29.95	760.7	39.1	3.9	78.9	4	3	9	4	1	2	3	5	.....	6959	11199	4	0.69	17.5
Wilmington	N. 34 14	W. 77 57	6.56 a.m.	52	16	30.08	764.0	30.14	765.5	62.0	16.7	86.1	5	2	2	1	2	2	1	14	2	4887	7865	6	1.09	27.7
Yankton	N. 42 54	W. 97 28	5.38 a.m.	1228	374	28.75	730.2	30.08	764.0	40.3	4.6	87.1	4	9	3	.....	4	5	2	4	.....	6322	10174	7	1.98	50.3
Yuma	N. 32 45	W. 114 36	4.30 a.m.	141	43	29.74	755.4	29.88	758.9	57.0	13.9	66.5	1	4	1	4	1	3	1	5	11	2777	4409	2	0.05	1.3
Sub-Series.																												
Bluefields	N. 12 00	W. 83 43	6.31 a.m.	20	6	.....	.....	.....	.....	77.0	25.0	.....	11	12	1	.....	.....	.....	.....	7	.....	.....	.....	6	8.13	206.5
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.03	559.6	.....	.....	53.2	11.8	75.7	2	.....	1	2	1	1	.....	1	23	.....	.....	8	7.23	183.7
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	.....	.....	29.97	761.2	75.9	24.4	87.1	20	.....	.....	.....	.....	1	.....	.....	10	2311	3719	7	4.46	113.3
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.00	762.0	30.00	762.0	79.7	26.5	80	.....	.....	.....	.....	.....	1	18	12	.....	.....	.....	4	1.54	39.1
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.41	747.0	29.97	761.2	78.0	25.6	89	2	.....	.....	.....	9	.....	.....	.....	20	.....	.....	9	8.02	203.2
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	75.0	23.9	89.2	.....	4	1	1	1	6	3	13	2	.....	.....	4	18.25	463.5
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	30.08	764.0	30.15	765.8	28.5	—1.9	94.6	4	13	5	5	1	.....	2	1	.....	8340	13422	4	0.62	15.7

OCEAN SQUARE DATA FOR OCTOBER, 1883.

Location of Centre of each Square.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
	Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5° W. 22.5°	29.99	761.7	79.4	26.3					1	1	7	17		5	2.2
12.5 27.5	30.00	762.0	80.7	27.1					1	1	7	17		5	2.3
12.5 32.5	30.02	762.5	80.6	27.0					1	1	8	13		8	2.1
12.5 37.5	30.02	762.5	80.6	27.0					1		14	7		9	2.0
12.5 42.5	30.02	762.5	81.0	27.2						3	11	[illegible]		9	1.6
12.5 47.5	30.02	762.5	80.9	27.2						3	12	8		8	1.7
12.5 52.5	30.02	762.5	81.2	27.3					1	6	18	3		3	1.8
17.5 22.5	30.05	763.3	78.1	25.6					1		8	17		5	2.4
17.5 27.5	30.06	763.5	78.5	25.8					1		9	16		5	2.5
17.5 32.5	30.07	763.8	78.8	26.0						1	13	10		7	2.3
17.5 37.5	30.07	763.8	79.2	26.2						1	15	8		7	2.3
17.5 42.5	30.03	762.7	80.0	26.7						4	14	7		6	1.7
17.5 47.5	30.06	763.5	80.0	26.7						4	15	7		5	1.7
17.5 52.5	30.05	763.3	80.3	26.8					1	5	18	4		3	2.1
17.5 57.5	30.02	762.5	81.0	27.2					2	6	20	1		2	2.1
22.5 22.5	30.11	764.8	76.0	24.4					1	2	7	16		5	2.4
22.5 27.5	30.11	764.8	76.5	24.7					1	1	8	17		4	2.3
22.5 32.5	30.12	765.0	77.5	25.3					1	2	18	6		4	2.1
22.5 37.5	30.11	764.8	78.0	25.6					1	4	16	8		2	2.0
22.5 42.5	30.11	764.8	78.2	25.7	2					7	15	6		1	2.0
22.5 47.5	30.11	764.8	78.4	25.8					2	11	9	8		1	2.3
22.5 52.5	30.08	764.0	79.0	26.1					2	10	13	5		1	2.2
22.5 57.5	30.06	763.5	79.6	26.4	1				4	6	14	6			2.0
22.5 62.5	30.03	762.7	80.7	27.1	1			2	2	6	12	8			2.4
22.5 67.5	30.01	762.2	80.8	27.1	2	2		1		4	12	10			2.0
22.5 72.5	30.02	762.5	81.9	27.7	2	1			3	2	15	8			2.2
27.5 22.5	30.16	766.1	73.7	23.2				1		2	5	19		4	2.5
27.5 27.5	30.17	766.3	74.3	23.5					1	1	10	16		3	2.4
27.5 32.5	30.17	766.3	75.1	23.9						5	15	7		3	2.3
27.5 37.5	30.16	766.1	75.5	24.2		1				7	17	5		1	2.3
27.5 42.5	30.15	765.8	76.0	24.4	1			2	2	9	11	6			2.3
27.5 47.5	30.14	765.5	75.8	24.3				4	2	12	6	7			2.4
27.5 52.5	30.12	765.0	76.4	24.7	1			3	6	9	7	5			2.2
27.5 57.5	30.09	764.3	77.0	25.0	1	1	1	3	9	5	4	7			2.2
27.5 62.5	30.05	763.3	77.8	25.4	3	2	1	4	7	2	6	6			2.2
27.5 67.5	30.03	762.7	78.2	25.7	5	2	2	5	2	3	7	5			2.8
27.5 72.5	30.05	763.3	78.6	25.9	5	1	1	1	4	3	4	12			2.5
27.5 77.5	30.05	763.3	78.1	25.6	0			1	4	2	10	8			2.0
32.5 12.5	30.13	765.3	70.0	21.1	3	1		4			1	19		3	1.5
32.5 17.5	30.16	766.1	70.1	21.2	4	1	2	5		2	1	16			1.5
32.5 22.5	30.22	767.6	72.1	22.3	3			2		2	2	18		4	2.3
32.5 27.5	30.24	768.1	72.3	22.4	1			2	2	1	10	12		3	2.4
32.5 32.5	30.24	768.1	73.0	22.8				1	4	10	4	9		3	2.8
32.5 37.5	30.24	768.1	73.6	23.1	2	1		2	4	9	2	10		1	2.7
32.5 42.5	30.19	766.8	75.9	24.4	2			4	9	4	7	5			2.9
32.5 47.5	30.17	766.3	73.3	22.9	4		2	4	7	4	3	7			2.9
32.5 52.5	30.13	765.3	73.3	22.9	1	2	1	2	8	4	5	8			2.9
32.5 57.5	30.08	764.0	72.9	22.7	1	3	1	5	5	6	4	6			2.9
32.5 62.5	30.05	763.3	73.9	23.3	6	2	1	5	3	9	1	4			2.6
32.5 67.5	30.04	763.0	73.8	23.2	8		3		4	4	2	1			2.8
32.5 72.5	30.08	764.0	73.9	23.1	7	2	1	1	4	1	3	12			3.3
32.5 77.5	30.09	764.3	69.2	20.7	10	1	1	2	1	2		14			2.7
37.5 12.5	30.14	765.5	66.2	19.0	6	4		4	3			12		2	2.5
37.5 17.5	30.20	767.1	67.8	19.9	2	6	1	4	1			15		2	2.4
37.5 22.5	30.25	768.3	69.2	20.7	4	1	2	5	2		2	14		1	2.4
37.5 27.5	30.26	768.6	69.6	20.9	3		6	3	3	5	4	7			2.2
37.5 32.5	30.23	767.8	70.5	21.4	3	2	4	3	5	7	1	5		1	2.6
37.5 37.5	30.19	766.8	70.8	21.6	5	2	2	4	9	2	1	5		1	3.1
37.5 42.5	30.16	766.1	72.6	22.6	5			8	9	2	1	6			3.0
37.5 47.5	30.15	765.8	71.0	21.7	3	4	1	3	9	3	3	5			3.1
37.5 52.5	30.12	765.0	68.9	20.5	4	3	1	5	6	3	4	5			3.4
37.5 57.5	30.07	763.8	68.4	20.2	5	3	1	5	5	1	5	6			3.6
37.5 62.5	30.07	763.8	68.3	20.2	4	5	1	5	2	2	3	9			3.5
37.5 67.5	30.08	764.0	66.1	18.9	6	5		2		4	2	12			3.5
37.5 72.5	30.13	765.3	63.0	17.2	10			1	5	2		13			3.3
42.5 12.5	30.12	765.0	62.8	17.1	8	6	3	4	4		1	4		1	2.9
42.5 17.5	30.17	766.3	63.7	17.6	7	7	4	3	5		1	3		1	3.2
42.5 22.5	30.16	766.1	64.4	18.0	5	10	4	3	3	1	1	3		1	3.4
42.5 27.5	30.20	767.1	64.6	18.1	3	6	4	8	6	1	2	1			3.3
42.5 32.5	30.16	766.1	66.2	19.0	2	5	5	2	10	2		5			3.3
42.5 37.5	30.13	765.3	65.8	18.8	3	5	2	6	10	1		4			3.9
42.5 42.5	30.12	765.0	63.4	17.4	6	7	1	3	8	2	1	3			4.2
42.5 47.5	30.08	764.0	59.6	15.3	5	4	1	7	4	4	2	4			3.8
42.5 52.5	30.13	765.3	58.1	14.5	5	5	1	5	5	3	3	4			4.0
42.5 57.5	30.09	764.3	57.3	14.1	9	4	3	4	3	3	3	2			4.0
42.5 62.5	30.12	765.0	54.0	12.2	3	7		2	3	1	3	12			3.8
42.5 67.5	30.15	765.8	50.5	10.3	10	3	1	2	3	3	4	5			3.3
47.5 12.5	30.06	763.5	58.9	14.9	7	5	6	7	3		1	2			3.3
47.5 17.5	30.08	764.0	59.3	15.2	4	8	8	4	5	2					3.6
47.5 22.5	30.08	764.0	58.9	14.9	3	12	4	6	5	1					3.8
47.5 27.5	30.07	763.8	58.7	14.9	4	9	5	4	9						4.2
47.5 32.5	30.05	763.3	58.4	14.7	2	11	4	5	8			1			4.1
47.5 37.5	30.02	762.5	57.2	14.0	2	13	3	5	6	1		1			4.0
47.5 42.5	30.03	762.7	53.4	11.9	2	12	3	5	7		1	1			3.6
47.5 47.5	30.06	763.5	48.5	9.2	3	9	3	7	5	1		3			3.4
52.5 12.5	29.93	760.2	54.4	12.4	3	8	6	7	6			1			3.8
52.5 17.5	29.90	759.4	53.8	12.1	2	10	6	7	5	1					4.1
52.5 22.5	29.88	758.9	52.7	11.5	2	10	9	4	6						4.0
52.5 27.5	29.85	758.2	52.0	11.1	1	12	7	6	5						4.5
52.5 32.5	29.85	758.2	51.0	10.6	1	15	3	6	6						4.4
52.5 37.5	29.86	758.4	48.6	9.2	2	13	4	7	5						3.8
52.5 42.5	29.88	758.9	45.7	7.6	4	12	5	5	4			1			3.6
52.5 47.5	29.89	759.2	42.0e	5.6e	3	11	5	4	7			1			3.8
57.5 12.5	29.73	755.1	49.3	9.6	2	9	5	10	4	1					4.0
57.5 17.5	29.68	753.9	48.5	9.2	2	6	8	11	3	1					4.1
57.5 22.5	29.65	753.1	47.2	8.4		11	5	9	4	1		1			4.1
57.5 27.5	29.64	752.8	45.6	7.6	1	12	4	10	3		1				4.3
57.5 32.5	29.65	753.1	42.3a	5.7a	3	14	2	8	4						4.0
57.5 37.5	29.68	753.9	41.8	5.4	4	12	2	7	5	1					4.1
57.5 42.5	29.71	754.6	41.8	5.4	6	10	3	4	3	3		1			3.5
57.5 47.5	29.73	755.1			6	12	2	6	2	2				1	3.5

VLADIVOSTOCK (N. 43° 09′, E. 132° 00′).

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles per hour	Wind. Velocity. Metrs pr sec.	Wind. Force 0–10	Clouds. Amount. Upper. 0–10	Clouds. Amount. Lower. 0–10	Clouds. Direction. Upper From	Clouds. Direction. Lo'er From	Rainfall or melted snow in past 24 hours. Inch.	Rainfall or melted snow in past 24 hours. Mill.	WEATHER
1883.																		
January 1	29.92	760.0	29.99	761.7	0.7	—17.4	32	nw.	22	10	.....	0	0	.....	.....	0	0	
2	30.26	768.5	30.32	770.2	— 2.2	—19.0	35	ne.	13	6	.....	0	0	.....	.....	0	0	
3	30.25	768.3	30.32	770.0	7.9	—13.4	49	calm.	0	0	.....	0	0	.....	.....	0	0	
4	30.21	767.3	30.28	769.0	14.0	—10.0	25	calm.	0	0	.....	0	0	.....	.....	0	0	
5	30.17	766.3	30.24	768.0	5.0	—15.0	40	calm.	0	0	.....	0	0	.....	.....	0	0	
6	30.13	765.3	30.20	767.0	19.4	— 7.0	50	calm.	0	0	.....	0	0	.....	.....	0.004	0.1	
7	29.97	761.1	30.03	762.8	22.3	— 5.4	64	nw.	13	6	.....	0	5 k	.....	.....	0	0	
8	30.12	765.1	30.19	766.8	13.3	—10.4	46	calm.	0	0	.....	0	5 k	.....	.....	0	0	
9	29.92	759.9	29.98	761.6	20.1	— 6.6	33	calm.	0	0	.....	0	0	.....	.....	0	0	
10	29.72	754.9	29.79	756.6	20.5	— 6.4	27	n.	13	6	.....	0	5 k	.....	.....	0	0	
11	30.04	762.9	30.10	764.6	4.3	—15.4	20	nw.	27	12	.....	0	0	.....	.....	0	0	
12	30.20	767.0	30.26	768.7	7.2	—13.8	30	nw.	18	8	.....	0	0	.....	.....	0	0	
13	30.34	770.7	30.41	772.4	— 5.4	—20.8	39	n.	34	15	.....	0	0	.....	.....	0	0	
14	30.52	775.2	30.59	776.9	— 5.1	—20.6	40	nw.	40	18	.....	0	0	.....	.....	0	0	
15	30.24	768.2	30.31	769.9	— 9.8	—23.2	52	n.	40	18	.....	0	5 k	.....	.....	0	0	
16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
17	30.21	767.4	30.28	769.1	—10.1	—23.4	48	nw.	49	22	.....	8 ck	0	.....	.....	0	0	
18	30.14	765.5	30.21	767.2	— 7.2	—21.8	45	nw.	18	8	.....	8 ck	0	.....	.....	0	0	
19	30.13	765.2	30.19	766.9	— 2.6	—19.2	42	nw.	18	8	.....	0	0	.....	.....	0	0	
20	30.13	765.4	30.20	767.1	— 2.2	—19.0	38	se.	18	8	.....	0	5 k	.....	.....	0	0	
21	30.03	762.7	30.10	764.4	12.2	—11.0	52	calm.	0	0	.....	0	0	.....	.....	0	0	
22	30.24	768.2	30.31	769.9	11.8	—11.2	30	calm.	0	0	.....	0	0	.....	.....	0	0	
23	30.44	773.1	30.50	774.8	7.5	—13.6	32	n.	18	8	.....	0	0	.....	.....	0	0	
24	30.39	771.6	30.45	773.5	0.3	—17.6	35	ne.	13	6	.....	0	5 k	.....	.....	0	0	
25	30.21	767.3	30.28	769.0	10.8	—11.8	72	calm.	0	0	.....	.....	10 k	.....	.....	0.020	0.5	
26	30.23	767.8	30.30	769.5	— 0.8	—18.2	45	n.	13	6	.....	0	0	.....	.....	0	0	
27	30.17	766.2	30.23	767.9	4.6	—15.2	30	n.	27	12	.....	0	0	.....	.....	0	0	
28	30.24	768.1	30.31	769.8	3.6	—15.8	36	n.	18	8	.....	0	0	.....	.....	0	0	
29	30.08	763.9	30.14	765.6	13.3	—10.4	28	calm.	0	0	.....	0	0	.....	.....	0	0	
30	29.87	758.8	29.94	760.5	3.6	—15.8	35	n.	27	12	.....	0	0	.....	.....	0.055	1.4	
31	30.05	763.2	30.11	764.9	8.6	—13.0	23	n.	18	8	.....	0	0	.....	.....	0	0	
Mean	30.15	765.8	30.22	767.5	5.5	—14.7	39.4	.....	14.3	6.4	.....	.....	1.7	.....	.....	0.079	2.0	
February 1	30.17	766.2	30.23	767.9	— 8.3	—22.4	25	calm.	0	0	.....	0	0	.....	.....	0	0	
2	29.97	761.2	30.04	762.9	— 2.9	—19.4	60	calm.	0	0	.....	0	0	.....	.....	0	0	
3	29.98	761.5	30.05	763.2	—10.5	—23.6	60	calm.	0	0	.....	0	5 k	.....	.....	0	0	
4	30.01	762.3	30.08	764.0	10.4	—12.0	48	calm.	0	0	.....	0	0	.....	.....	0	0	
5	30.33	770.3	30.39	772.0	4.6	—15.2	40	n.	22	10	.....	0	0	.....	.....	0	0	
6	30.50	774.8	30.57	776.5	7.3	—13.7	30	calm.	0	0	.....	0	0	.....	.....	0	0	
7	30.39	771.8	30.45	773.5	— 8.0	—22.2	38	n.	22	10	.....	0	3 k	.....	.....	0	0	
8	30.28	769.1	30.35	770.8	3.2	—16.0	40	n.	22	10	.....	0	0	.....	.....	0	0	
9	30.38	771.6	30.45	773.3	— 6.9	—21.6	42	n.	22	10	.....	0	0	.....	.....	0	0	
10	30.33	770.3	30.39	772.0	9.7	—12.4	26	n.	27	12	.....	0	3 8	.....	.....	0	0	
11	30.39	772.0	30.46	773.7	— 1.8	—18.8	37	n.	18	8	.....	0	0	.....	.....	0	0	
12	30.43	773.0	30.50	774.7	16.9	— 8.4	48	calm.	0	0	.....	0	0	.....	.....	0	0	
13	30.50	776.3	30.63	778.0	5.7	—14.6	33	n.	13	6	.....	0	0	.....	.....	0	0	
14	30.32	770.0	30.38	771.7	19.8	— 6.8	67	calm.	0	0	.....	.....	10 k	.....	.....	0.004	0.1	
15	30.22	767.5	30.28	769.2	18.7	— 7.4	60	n.	18	8	.....	0	5 k	.....	.....	0	0	
16	30.10	764.4	30.16	766.1	19.0	— 7.2	68	n.	22	10	.....	0	8 k	.....	.....	0.004	0.1	
17	30.15	765.8	30.22	767.5	20.5	— 6.4	65	se.	13	6	.....	0	8 n	.....	.....	0	0	
18	30.02	762.5	30.09	764.2	21.9	— 5.6	65	nw.	9	4	.....	.....	10 n	.....	.....	0.004	0.1	snowing.
19	30.28	769.0	30.34	770.7	5.0	—15.0	28	n.	18	8	.....	0	0	.....	.....	blank	blank	
20	30.32	770.2	30.39	771.9	16.9	— 8.4	28	ne.	13	6	.....	0	0	.....	.....	0	0	
21	30.37	771.3	30.43	773.0	3.6	—15.8	45	ne.	22	10	.....	0	5 k	.....	.....	0	0	
22	30.30	771.1	30.43	772.8	11.8	—11.4	36	n.	22	10	.....	0	3 8	.....	.....	0	0	
23	30.33	770.4	30.40	772.1	4.6	—15.2	29	n.	22	10	.....	0	5 k	.....	.....	0	0	
24	30.19	766.7	30.25	768.4	15.1	— 9.4	38	ne.	13	6	.....	.....	10 k	.....	.....	0	0	
25	30.34	770.6	30.41	772.3	— 0.8	—18.2	37	nw.	9	4	.....	0	0	.....	.....	0	0	
26	30.24	768.0	30.30	769.7	11.5	—11.4	22	calm.	0	0	.....	0	0	.....	.....	0	0	
27	30.23	767.9	30.30	769.6	— 1.5	—18.6	40	calm.	0	0	.....	0	0	.....	.....	0	0	
28	30.13	765.3	30.20	767.0	20.5	— 6.4	68	se.	9	4	.....	0	0	.....	.....	0	0	
Mean	30.25	768.6	30.33	770.3	7.3	—13.7	43.7	.....	11.0	4.9	.....	.....	2.7	.....	.....	0.012	0.3	
March 1	30.00	762.0	30.07	763.7	22.6	— 5.2	68	calm.	0	0	.....	0	0	.....	.....	0	0	
2	29.92	760.0	29.99	761.7	29.8	— 1.2	60	calm.	0	0	.....	0	2 k	.....	.....	0	0	
3	30.10	764.4	30.16	766.1	19.8	— 6.8	39	n.	18	8	.....	0	0	.....	.....	0	0	
4	30.03	762.7	30.10	764.4	15.4	— 9.2	50	calm.	0	0	.....	0	0	.....	.....	0	0	
5	29.99	761.8	30.06	763.5	23.7	— 4.6	36	calm.	0	0	.....	0	0	.....	.....	0	0	
6	30.05	763.3	30.12	765.0	21.0	— 5.8	38	calm.	0	0	.....	0	0	.....	.....	0	0	
7	29.89	759.2	29.96	760.9	7.9	—13.4	24	nne.	9	4	.....	0	0	.....	.....	0	0	
8	30.04	763.0	30.11	764.7	5.0	—15.0	22	calm.	0	0	.....	0	0	.....	.....	0	0	
9	30.06	763.4	30.12	765.1	15.4	— 9.2	60	n.	13	6	.....	0	0	.....	.....	0	0	
10	30.10	764.5	30.17	766.2	22.3	— 5.4	24	nne.	9	4	.....	0	0	.....	.....	0	0	
11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
12	30.04	763.1	30.11	764.8	26.4	— 3.1	61	e.	8	4	.....	0	0	.....	.....	0	0	
13	30.11	764.8	30.18	766.5	27.3	— 2.6	43	n.	27	12	.....	0	2 k	.....	.....	0	0	
14	30.07	763.7	30.13	765.4	30.4	— 0.9	58	se.	18	8	.....	0	6 k	.....	.....	0	0	
15	29.54	750.3	29.61	752.0	25.9	— 3.4	70	ne.	34	15	.....	.....	10 k	.....	.....	0.209	5.3	snowing.
16	29.30	744.2	29.37	745.9	23.0	— 5.0	47	nw.	13	6	.....	0	3 k	.....	.....	blank	blank	
17	29.51	749.5	29.58	751.2	24.1	— 4.4	31	nnw.	22	10	.....	4 ck	0	.....	.....	0	0	
18	29.77	756.1	29.84	757.8	26.8	— 2.9	41	n.	27	12	.....	0	0	.....	.....	0	0	
19	29.61	757.1	29.87	758.8	30.4	— 0.9	84	se.	9	4	.....	0	8 k	.....	.....	0	0	
20	29.98	761.6	30.05	763.3	18.5	— 7.5	79	nw.	9	4	.....	0	0	.....	.....	0	0	
21	30.02	762.6	30.09	764.3	18.9	— 7.3	70	n.	9	4	.....	0	0	.....	.....	0	0	
22	30.29	769.3	30.35	771.0	30.4	— 0.9	66	n.	9	4	.....	0	0	.....	.....	0	0	
23	30.21	767.4	30.28	769.1	33.3	0.7	92	ese.	18	8	.....	0	7 8	.....	.....	0	0	
24	30.09	764.3	30.16	766.0	23.9	— 4.5	65	nnw.	18	8	.....	8 ck	0	.....	.....	0	0	
25	30.16	766.1	30.23	767.8	25.0	— 3.9	73	nw.	18	8	.....	0	0	.....	.....	0	0	
26	30.04	763.0	30.11	764.7	31.3	— 0.4	66	wnw.	18	8	.....	0	0	.....	.....	0	0	
27	29.84	757.8	29.90	759.5	41.0	5.0	82	calm.	0	0	.....	0	0	.....	.....	0	0	
28	29.62	752.3	29.69	754.0	39.7	4.3	63	nw.	27	12	.....	0	4 k	.....	.....	0	0	
29	29.79	756.6	29.85	758.3	27.1	— 2.7	70	ne.	9	4	.....	0	6 k	.....	.....	0	0	
30	29.72	754.9	29.79	756.6	14.0	—10.0	64	n.	22	10	.....	0	5 k	.....	.....	0	0	
31	29.71	754.5	29.77	756.2	22.8	— 5.1	72	ese.	22	10	.....	0	2 k	.....	.....	0	0	
Mean	29.93	760.1	29.99	761.8	24.1	— 4.4	57.3	.....	12.5	5.6	.....	.....	2.2	.....	.....	0.209	5.3	

VLADIVOSTOCK—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount.		Clouds. Direction.		Rainfall or melted snow in past 24 hours.		WEATHER.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0-10	Upper. 0-10	Lower. 0-10	Up'er From	Lo'er From	Inch.	Mill.	
1883.																		
April 1	29.95	761.0	30.03	762.7	19.6	— 6.9	69	n.	18	8	.....	0	0	.....	.....	0	0	
2	29.67	753.6	29.74	755.3	35.4	1.9	91	se.	22	10	.....	.....	10 k	.....	.....	0	0	
3	29.77	756.1	29.84	757.6	31.8	— 0.1	58	n.	18	8	.....	0	0	.....	.....	0	0	
4	29.98	761.5	30.05	763.2	28.2	— 2.1	90	nw.	22	10	.....	.....	10 n	.....	.....	0.091	2.3	snowing.
5	30.12	765.0	30.19	766.7	29.3	— 1.5	64	calm.	0	0	.....	0	2 k	.....	.....	blank	blank	
6	30.22	767.6	30.29	769.3	32.9	0.5	80	s.	22	10	.....	.....	10 n	.....	.....	0.024	0.6	snowing.
7	30.28	769.0	30.34	770.7	32.0	0.0	84	nnw.	9	4	.....	0	0	.....	.....	blank	blank	
8	29.99	761.8	30.06	763.5	36.1	2.3	89	se.	13	6	.....	.....	10 k	.....	.....	0	0	
9	29.81	757.1	29.87	758.8	37.6	3.1	81	e.	13	6	.....	.....	10 n	.....	.....	0	0	
10	29.75	755.6	29.82	757.3	35.1	1.7	94	calm.	0	0	.....	.....	10 n	.....	.....	0.539	13.7	
11	29.82	757.4	29.89	759.1	37.2	2.9	78	nw.	18	8	.....	0	8 k	.....	.....	0.083	2.1	
12	29.92	759.9	29.98	761.6	37.9	3.3	52	se.	9	4	.....	0	7 n	.....	.....	0.059	1.5	
13	29.39	746.4	29.45	748.1	35.8	2.1	91	nnw.	9	4	.....	0	6 ks	.....	.....	0.303	7.7	
14	30.03	702.8	30.10	764.5	31.8	— 0.1	90	ese.	9	4	.....	0	0	.....	.....	0	0	
15	30.04	763.0	30.11	764.7	36.1	2.3	80	nne.	18	8	.....	0	8 n	.....	.....	0.004	0.1	
16	30.09	764.2	30.15	765.9	36.5	2.5	70	sw.	40	18	.....	0	0	.....	.....	0	0	
17	30.15	765.7	30.21	767.4	32.5	0.3	87	calm.	0	0	.....	0	3 k	.....	.....	0	0	
18	30.18	766.5	30.24	768.2	37.2	2.9	85	nw.	13	6	.....	.....	10 ks	.....	.....	0.004	0.1	
19	30.10	764.6	30.17	766.3	35.8	2.1	84	s.	22	10	.....	0	4 k	.....	.....	0	0	
20	29.65	753.1	29.72	754.8	38.5	3.6	93	calm.	0	0	.....	.....	10 n	.....	.....	0.402	10.2	raining.
21	29.74	755.3	29.80	757.0	47.3	8.5	44	nw.	13	6	.....	0	7 k	.....	.....	blank	blank	
22	29.73	755.1	29.80	756.8	42.6	5.9	66	nw.	9	4	.....	0	2 k	.....	.....	0	0	
23	29.07	753.7	29.74	755.4	42.6	5.9	81	calm.	0	0	.....	.....	10 k	.....	.....	0.087	2.2	
24	30.02	762.6	30.09	764.3	39.0	3.9	59	nw.	18	8	.....	0	0	.....	.....	0	0	
25	29.81	757.1	29.87	758.8	39.7	4.3	85	se.	34	15	.....	.....	10 n	.....	.....	0	0	
26	29.86	758.4	29.93	760.1	39.9	4.4	64	calm.	0	0	.....	0	3 k	.....	.....	0	0	
27	29.95	760.8	30.02	762.5	42.3	5.7	85	se.	27	12	.....	.....	10 n	.....	.....	0.059	1.5	
28	29.58	751.4	29.65	753.1	38.3	3.5	85	nne.	22	10	.....	0	8 k	.....	.....	0.110	2.8	
29	29.73	755.2	29.80	756.9	46.9	8.3	71	se.	13	6	.....	0	2 k	.....	.....	0	0	
30	29.84	757.9	29.91	759.6	42.7	6.5	50	n.	22	10	.....	0	2 k	.....	.....	0	0	
Mean	29.89	759.3	29.96	761.0	36.7	2.6	76.7	.....	15.2	6.8	.....	.....	5.7	.....	.....	1.764	44.8	
May 1	30.07	763.8	30.14	765.5	39.7	4.3	73	e.	13	6	.....	0	2 k	.....	.....	0	0	
2	30.16	766.0	30.22	767.7	43.7	6.5	47	se.	18	8	.....	.....	10 k	.....	.....	0	0	
3	30.03	762.7	30.10	764.4	41.4	5.2	90	se.	9	4	.....	.....	10 k	.....	.....	0	0	
4	29.48	748.8	29.55	750.5	35.1	1.7	94	ne.	27	12	.....	.....	10 n	.....	.....	1.228	31.2	raining.
5	29.37	745.9	29.43	747.6	40.1	4.5	98	calm.	0	0	.....	.....	10 n	.....	.....	0.244	6.2	
6	29.70	754.3	29.76	756.0	41.9	5.5	77	calm.	0	0	.....	0	4 k	.....	.....	0	0	
7	30.01	702.3	30.08	764.0	45.1	7.3	74	nw.	18	8	.....	0	2 k	.....	.....	0	0	
8	29.98	761.6	30.05	763.3	41.9	5.5	65	ese.	22	10	.....	.....	10 n	.....	.....	0.067	1.7	
9	29.76	755.9	29.83	757.6	42.4	5.8	97	ne.	9	4	.....	0	5 k	.....	.....	0	0	
10	29.81	757.1	29.87	758.8	48.0	8.9	74	calm.	0	0	.....	0	0	.....	.....	0	0	
11	29.84	757.9	29.91	759.6	43.7	6.5	84	sw.	9	4	.....	0	6 k	.....	.....	0	0	
12	29.87	758.6	29.93	760.3	40.1	4.5	92	se.	22	10	.....	.....	10 n	.....	.....	0.260	6.6	raining.
13	29.82	757.5	29.89	759.2	42.4	5.8	97	se.	13	6	.....	.....	10 n	.....	.....	blank	blank	
14	29.65	753.0	29.71	754.7	42.3	5.7	90	s.	22	10	.....	.....	10 n	.....	.....	0.031	0.8	
15	29.79	756.7	29.86	758.4	51.1	10.6	74	calm.	0	0	.....	.....	10 k	.....	.....	0	0	
16	29.76	755.9	29.83	757.6	50.2	10.1	75	e.	13	6	.....	0	1 k	.....	.....	0.012	0.3	
17	29.75	755.6	29.82	757.3	48.7	9.3	57	calm.	0	0	.....	0	0	.....	.....	0	0	
18	29.75	755.7	29.82	757.4	50.7	10.4	74	se.	27	12	.....	0	5 k	.....	.....	0	0	
19	29.87	758.6	29.93	760.3	47.3	8.5	93	sse.	18	8	.....	0	0	.....	.....	0	0	
20	29.99	761.7	30.06	763.4	43.3	6.3	93	se.	18	8	.....	.....	10 n	.....	.....	0	0	foggy.
21	29.95	760.8	30.02	762.5	49.1	9.5	95	ese.	18	8	.....	0	5 k	.....	.....	0	0	
22	29.93	760.2	30.00	761.9	51.6	10.9	74	ese.	18	8	.....	0	0	.....	.....	0	0	
23	29.85	758.3	29.92	760.0	48.0	8.9	93	calm.	0	0	.....	0	0	.....	.....	0	0	
24	29.85	758.1	29.91	759.8	52.3	11.3	87	se.	18	8	.....	0	4 ks	.....	.....	0	0	
25	29.62	752.3	29.69	754.0	50.0	10.0	76	se.	18	8	.....	0	8 k	.....	.....	0	0	
26	29.28	743.7	29.35	745.4	52.7	11.5	82	n.	13	6	.....	.....	10 n	.....	.....	0.465	11.8	raining.
27	29.40	746.8	29.47	748.5	54.5	12.5	98	nw.	13	6	.....	.....	10 k	.....	.....	0.047	1.2	
28	29.62	752.4	29.69	754.1	58.5	14.7	80	calm.	0	0	.....	0	8 n	.....	.....	0	0	
29	29.88	758.9	29.95	760.6	49.1	9.5	67	sw.	18	8	.....	0	5 k	.....	.....	0	0	
30	29.99	761.8	30.06	763.5	46.2	7.9	88	se.	18	8	.....	.....	10 n	.....	.....	0	0	
31	29.85	758.3	29.92	760.0	49.1	9.5	98	e.	34	15	.....	.....	10 n	.....	.....	0	0	foggy.
Mean	29.80	756.8	29.86	758.5	46.4	8.0	82.5	.....	13.9	6.2	.....	.....	6.3	.....	.....	2.354	59.8	
June 1	29.54	750.2	29.60	751.9	46.5	8.3	96	se.	18	8	.....	.....	10 n	.....	.....	0.925	23.5	raining.
2	29.35	745.5	29.42	747.2	55.2	12.9	87	nw.	9	4	.....	0	6 k	.....	.....	0.008	0.2	
3	29.70	754.3	29.76	756.0	45.9	7.7	93	se.	22	10	.....	.....	10 n	.....	.....	0.039	1.0	
4	29.92	760.0	29.99	761.7	45.3	7.4	98	se.	22	10	.....	.....	10 k	.....	.....	0	0	
5	29.98	761.6	30.05	763.3	44.4	6.9	99	calm.	0	0	.....	0	7 n	.....	.....	0	0	
6	29.95	760.8	30.02	762.5	51.1	10.6	89	se.	13	6	.....	0	3 k	.....	.....	0	0	
7	30.01	762.3	30.08	764.0	49.8	9.9	94	se.	18	8	.....	0	3 k	.....	.....	0	0	
8	29.91	759.6	29.97	761.3	47.3	8.5	94	se.	9	4	.....	.....	10 k	.....	.....	0	0	
9	29.88	758.9	29.95	760.6	48.7	9.3	93	se.	18	8	.....	.....	10 n	.....	.....	0	0	
10	29.97	761.2	30.04	762.9	51.6	10.9	199	se.	18	8	.....	.....	10 n	.....	.....	0	0	foggy.
11	30.02	762.4	30.08	764.1	52.7	11.5	00	se.	13	6	.....	.....	10 n	.....	.....	0.028	0.7	rain and fog.
12	29.98	761.6	30.05	763.3	52.7	11.5	197	se.	13	6	.....	.....	10 n	.....	.....	blank	blank	
13	29.95	760.7	30.02	762.4	54.5	12.5	100	se.	22	10	.....	.....	10 n	.....	.....	0	0	foggy.
14	29.91	759.7	29.98	761.4	54.5	12.5	100	se.	22	10	.....	.....	10 n	.....	.....	0	0	foggy.
15	29.84	758.0	29.91	759.7	54.5	12.5	00	calm.	0	0	.....	.....	10 n	.....	.....	0	0	foggy.
16	29.81	757.2	29.88	758.9	54.1	12.3	99	e.	18	8	.....	.....	10 n	.....	.....	0	0	foggy.
17	29.69	754.2	29.76	755.9	67.5	19.7	180	calm.	0	0	.....	0	3 ks	.....	.....	0	0	
18	29.50	749.2	29.56	750.9	59.9	15.5	00	ese.	18	8	.....	.....	10 n	.....	.....	0.031	0.8	
19	29.58	751.4	29.65	753.1	67.5	19.7	64	wnw.	22	10	.....	1 ck	0	.....	.....	0	0	
20	29.70	754.3	29.76	756.0	62.1	16.7	61	se.	18	8	.....	10 cs	0	.....	.....	0	0	
21	29.68	753.9	29.75	755.6	58.1	14.5	99	calm.	0	0	.....	0	0	.....	.....	0.157	4.0	
22	29.73	755.2	29.80	756.9	59.9	15.5	92	se.	27	12	.....	0	3 k	.....	.....	0.142	3.6	
23	29.87	758.8	29.94	760.5	62.5	17.1	86	calm.	0	0	.....	0	0	.....	.....	0	0	
24	29.78	756.5	29.85	758.2	60.6	15.9	88	se.	18	8	.....	0	8 n	.....	.....	0	0	
25	29.67	753.6	29.74	755.3	54.1	12.3	90	se.	22	10	.....	0	3 n	.....	.....	0	0	
26	29.57	751.0	29.63	752.7	57.4	14.1	90	ne.	13	6	.....	.....	10 n	.....	.....	0.984	25.0	raining.
27	29.74	755.4	29.81	757.1	60.6	15.9	94	calm.	0	0	.....	0	0	.....	.....	blank	blank	
28	29.83	757.6	29.89	759.3	58.8	14.9	197	se.	18	8	.....	.....	10 n	.....	.....	0.173	4.4	
29	29.78	756.5	29.85	758.2	58.5	14.7	00	se.	13	6	.....	0	8 n	.....	.....	0	0	
30	29.72	755.0	29.79	756.7	58.8	14.9	97	e.	18	8	.....	.....	10 n	.....	.....	0	0	
Mean	29.79	756.6	29.86	758.3	55.2	12.9	92.5	.....	14.5	6.5	.....	.....	7.2	.....	.....	2.488	63.2	

VLADIVOSTOCK—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative Humidity	Wind. Direction.	Wind. Velocity.		Wind. Force	Clouds. Amount. Upper.	Clouds. Amount. Lower.	Clouds. Direction. Up'er	Clouds. Direction. Lo'er	Rainfall in past 24 hours.		WEATHER.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles perhour	Metrs prsec.	0–10	0–10	0–10	From	From	Inch.	Mill.	
1883.																		
July 1	29.66	753.3	29.72	755.0	58.8	14.9	100	se.	22	10	.....	0	8 n	.....	.....	0	0	foggy.
2	29.68	753.8	29.74	755.5	60.3	15.7	97	se.	18	8	.....	.....	10 n	.....	.....	0	0	
3	29.71	754.7	29.78	756.4	60.6	15.9	84	se.	13	6	.....	0	0	.....	.....	0	0	
4	29.77	756.1	29.84	757.8	62.8	17.1	87	se.	13	6	.....	.....	10 n	.....	.....	0	0	
5	29.86	758.4	29.93	760.1	61.4	16.9	89	w.	13	6	.....	0	4 n	.....	.....	0.173	4.4	
6	29.83	757.7	29.90	759.4	62.4	16.9	99	w.	18	8	.....	.....	10 n	.....	.....	0.445	11.3	raining.
7	29.88	758.9	29.95	760.6	60.3	15.7	94	w.	13	6	.....	0	2 k	.....	.....	0.728	18.5	
8	29.91	759.7	29.98	761.4	63.9	17.7	91	calm	0	0	.....	0	1 k	.....	.....	0	0	
9	29.85	758.1	29.91	759.8	63.5	17.5	85	wnw.	13	6	.....	0	0	.....	.....	0	0	
10	29.79	756.7	29.86	758.4	59.9	15.5	97	se.	18	8	.....	0	4 n	.....	.....	0	0	
11	29.82	757.3	29.88	759.0	59.9	15.5	99	s	13	6	.....	0	8 n	.....	.....	0	0	
12	29.77	756.2	29.84	757.9	64.2	17.9	99	se.	13	6	.....	0	8 n	.....	.....	0	0	foggy.
13	29.78	756.3	29.84	758.0	63.9	17.7	91	se.	27	12	.....	0	8 n	.....	.....	0	0	foggy.
14	29.68	753.8	29.74	755.5	65.3	18.5	99	se.	18	8	.....	.....	10 n	.....	.....	0	0	
15	29.74	755.3	29.80	757.0	62.8	17.1	97	se.	34	15	.....	0	5 n	.....	.....	0.118	3.0	raining.
16	29.84	757.8	29.90	759.5	63.1	17.3	93	se	27	12	.....	.....	10 n	.....	.....	blank	blank	
17	29.80	756.8	29.86	758.5	62.1	16.7	97	s.	18	8	.....	0	4 s	.....	.....	0.217	5.5	
18	29.74	755.5	29.81	757.2	64.6	18.1	87	ese.	40	18	.....	.....	10 n	.....	.....	0.378	9.6	
19	29.76	755.9	29.83	757.6	65.7	18.7	97	se.	40	18	.....	0	8 n	.....	.....	0	0	foggy.
20	29.71	754.5	29.77	756.2	64.9	18.3	100	se.	18	8	.....	.....	10 n	.....	.....	0.016	0.4	foggy.
21	29.64	752.8	29.71	754.5	66.7	19.3	99	se.	13	6	.....	.....	10 n	.....	.....	0.551	14.0	raining.
22	29.51	749.6	29.58	751.3	77.5	25.3	65	sw.	18	8	.....	0	4 ks	.....	.....	blank	blank	
23	29.62	752.3	29.69	754.0	73.2	22.9	82	calm	0	0	.....	0	0	.....	.....	0	0	
24	29.67	753.7	29.74	755.4	72.5	22.5	83	e.	13	6	.....	0	6 ks	.....	.....	0	0	
25	29.69	754.1	29.76	755.8	77.9	25.5	91	calm	0	0	.....	0	0	.....	.....	0	0	
26	29.80	757.0	29.87	758.7	75.0	23.9	84	ese.	18	8	.....	0	0	.....	.....	0	0	
27	29.70	754.4	29.77	756.1	76.8	24.9	81	se.	13	6	.....	.....	10 n	.....	.....	0	0	
28	29.55	750.5	29.61	752.2	72.1	22.3	100	ese.	13	6	.....	.....	10 n	.....	.....	0	0	foggy.
29	29.67	753.5	29.73	755.2	76.5	24.7	84	ne.	13	6	.....	0	6 n	.....	.....	0.157	4.0	
30	29.60	751.9	29.67	753.6	71.8	22.1	73	nnw.	13	6	.....	0	5 k	.....	.....	0	0	
31	29.67	753.7	29.74	755.4	69.3	20.7	97	ese.	13	6	.....	0	5 ks	.....	.....	0	0	
Mean	29.73	755.2	29.80	756.9	66.6	19.2	91.0	.....	16.6	7.4	.....	.....	6.0	.....	.....	2.784	70.7	
August 1	29.72	755.0	29.79	756.7	69.1	20.6	94	se.	22	10	.....	0	5 n	.....	.....	0	0	
2	29.84	757.8	29.90	759.5	68.2	20.1	95	se.	27	12	.....	.....	10 n	.....	.....	0	0	
3	29.82	757.3	29.88	759.0	70.0	21.1	97	se.	9	4	.....	0	8 n	.....	.....	0	0	
4	29.74	755.5	29.81	757.2	73.2	22.9	96	se.	40	18	.....	.....	10 n	.....	.....	0	0	
5	29.76	755.8	29.82	757.5	71.8	22.1	90	ese.	34	15	.....	.....	10 n	.....	.....	1.535	39.0	
6	29.83	757.6	29.89	759.3	72.5	22.5	99	calm	0	0	.....	.....	10 n	.....	.....	0	0	
7	29.71	754.6	29.78	756.3	72.9	22.7	96	se.	9	4	.....	0	7 n	.....	.....	0.031	0.8	
8	29.64	752.8	29.71	754.5	73.9	23.3	96	calm	0	0	.....	.....	10 n	.....	.....	0.079	2.0	
9	29.57	751.1	29.64	752.8	72.9	22.7	89	se.	18	8	.....	.....	10 n	.....	.....	0.118	3.0	
10	29.63	752.5	29.69	754.2	73.2	22.9	96	se.	22	10	.....	0	6 k	.....	.....	0.028	0.7	
11	29.82	757.4	29.89	759.1	73.6	23.1	88	calm	0	0	.....	0	6 k	.....	.....	0.701	17.8	
12	30.07	763.8	30.14	765.5	76.1	24.5	60	nw.	13	6	.....	0	2 s	.....	.....	0	0	
13	29.73	755.2	29.80	756.9	77.9	25.5	91	w.	9	4	.....	0	6 s	.....	.....	0	0	
14	29.68	753.9	29.75	755.6	76.1	24.5	89	e.	13	6	.....	0	5	.....	.....	0	0	
15	29.63	752.5	29.69	754.2	74.7	23.7	89	sse.	13	6	.....	0	5 n	.....	.....	0	0	
16	29.75	755.7	29.82	757.4	68.9	20.5	79	e.	9	4	.....	7 cs	0	.....	.....	0	0	
17	30.11	764.7	30.17	766.4	69.3	20.7	45	n.	13	6	.....	0	8	.....	.....	0.087	2.2	raining.
18	29.97	761.3	30.04	763.0	65.3	18.5	80	calm	0	0	.....	8 cs	0	.....	.....	blank	blank	
19	29.87	758.7	29.94	760.4	64.6	18.1	89	se.	9	4	.....	0	0	.....	.....	0	0	
20	29.88	759.0	29.95	760.7	72.5	22.5	73	w.	9	4	.....	0	0	.....	.....	0	0	
21	29.91	759.8	29.98	761.5	69.3	20.7	88	ese.	9	4	.....	0	0	.....	.....	0	0	
22	29.92	760.0	29.99	761.7	68.9	20.5	83	calm	0	0	.....	8 cs	0	.....	.....	0	0	
23	29.94	760.4	30.00	762.1	70.0	21.1	85	calm	0	0	.....	5 cs	0	.....	.....	0	0	
24	30.04	763.1	30.11	764.8	72.5	22.5	86	n.	9	4	.....	0	8 k	.....	.....	0	0	
25	30.08	763.9	30.14	765.6	70.0	21.1	92	calm	0	0	.....	0	0	.....	.....	0	0	
26	30.02	762.4	30.08	764.1	76.1	24.5	76	calm	0	0	.....	0	2 s	.....	.....	0	0	
27	29.84	757.8	29.90	759.5	71.4	21.9	88	calm	0	0	.....	3 cs	0	.....	.....	0	0	
28	29.76	755.8	29.82	757.5	72.5	22.5	80	se.	13	6	.....	0	7 k	.....	.....	0	0	
29	29.65	753.0	29.71	754.7	76.1	24.5	78	ese.	13	6	.....	0	6 n	.....	.....	0	0	
30	29.80	756.8	29.86	758.5	70.0	21.1	91	se.	22	10	.....	.....	9 n	.....	.....	0.421	10.7	raining.
31	29.86	758.4	29.93	760.1	59.5	15.3	90	nne.	34	15	.....	.....	10 n	.....	.....	1.575	40.0	
Mean	29.82	757.5	29.89	759.2	71.4	21.9	86.1	.....	11.9	5.3	.....	.....	6.2	.....	.....	4.575	116.2	
September 1	29.87	758.6	29.93	760.3	61.0	16.1	95	calm	0	0	.....	0	0	.....	.....	0	0	
2	29.94	760.5	30.01	762.2	63.9	17.7	83	calm	0	0	.....	0	8 n	.....	.....	0	0	
3	29.87	758.6	29.93	760.3	60.3	15.7	84	calm	0	0	.....	0	6 s	.....	.....	0.016	0.4	
4	29.87	758.8	29.94	760.5	62.1	16.7	97	e.	9	4	.....	0	0	.....	.....	0	0	
5	29.72	754.9	29.79	756.6	65.7	18.7	86	se.	49	22	.....	.....	9 k	.....	.....	0	0	
6	29.82	757.4	29.89	759.1	58.5	14.7	86	calm	0	0	.....	0	5 s	.....	.....	0.138	3.5	
7	29.82	757.4	29.89	759.1	53.1	11.7	93	calm	0	0	.....	0	5 ks	.....	.....	0.256	6.5	
8	29.92	760.0	29.99	761.7	61.7	16.5	59	n.	18	8	.....	0	0	.....	.....	0	0	
9	30.17	766.2	30.23	767.9	60.6	15.9	74	w.	13	6	.....	0	8 s	.....	.....	0	0	
10	29.84	757.9	29.91	759.6	56.3	13.5	95	ese.	34	15	.....	.....	10 n	.....	.....	0.709	18.0	raining.
11	29.51	749.5	29.58	751.2	63.1	17.3	91	se.	40	18	.....	.....	9 n	.....	.....	0.102	2.6	raining.
12	29.57	751.1	29.64	752.8	59.5	15.3	65	nw.	18	8	.....	0	2 s	.....	.....	blank	blank	
13	29.87	758.6	29.93	760.3	61.7	16.5	74	w.	9	4	.....	0	0	.....	.....	0	0	
14	30.07	763.7	30.13	765.4	61.7	16.5	99	e.	13	6	.....	0	0	.....	.....	0	0	
15	30.17	766.3	30.24	768.0	59.5	15.3	94	ene.	9	4	.....	0	2 s	.....	.....	0	0	
16	30.04	762.9	30.10	764.6	60.6	15.9	94	se.	40	18	.....	.....	9 n	.....	.....	0	0	
17	29.76	755.8	29.82	757.5	56.7	13.7	86	ene.	9	4	.....	0	4 s	.....	.....	0.268	6.8	
18	29.73	755.2	29.80	756.9	58.1	14.5	80	calm	0	0	.....	0	3 ks	.....	.....	0	0	
19	29.91	759.8	29.98	761.5	50.9	10.5	80	calm	0	0	.....	0	0	.....	.....	0	0	
20	29.85	758.1	29.91	759.8	55.2	12.9	74	se.	9	4	.....	0	0	.....	.....	0	0	
21	29.67	753.6	29.74	755.3	57.4	14.1	85	w.	40	18	.....	.....	9 n	.....	.....	0.067	1.7	raining.
22	29.82	757.5	29.89	759.2	49.5	9.7	63	w.	13	6	.....	0	0	.....	.....	0.016	0.4	
23	29.83	757.7	29.90	759.4	52.0	11.1	58	wnw.	18	8	.....	0	5 n	.....	.....	0	0	
24	29.90	759.4	29.97	761.1	54.1	12.3	55	w.	34	15	.....	0	8 k	.....	.....	0	0	
25	29.84	757.9	29.91	759.6	50.2	10.1	68	wnw.	18	8	.....	.....	9 n	.....	.....	0.020	0.5	
26	29.98	761.4	30.04	763.1	52.3	11.3	61	w.	13	6	.....	0	0	.....	.....	0	0	
27	30.02	762.4	30.08	764.1	55.2	12.9	78	sw.	13	6	.....	0	0	.....	.....	0	0	
28	30.16	766.0	30.22	767.7	56.3	13.5	79	se.	18	8	.....	0	4 k	.....	.....	0	0	
29	30.07	763.7	30.13	765.4	58.1	14.5	91	se.	27	12	.....	0	3 s	.....	.....	0.118	3.0	
30	30.05	763.2	30.11	764.9	52.0	11.1	76	nw.	22	10	.....	.....	10 n	.....	.....	0.189	4.8	
Mean	29.89	759.1	29.95	760.8	57.6	14.2	80.1	.....	16.3	7.3	.....	.....	4.3	.....	.....	1.898	48.2	

VLADIVOSTOCK—Continued.

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs prsec.	Wind. Force 0-10	Clouds. Amount. Upper. 0-10	Clouds. Amount. Lower. 0-10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall in past 24 hours. Inch.	Rainfall in past 24 hours. Mill.	WEATHER.
1883.																		
October 1	29.92	760.0	29.99	761.7	53.4	11.9	83	wnw.	13	6	.....	0	0	.....	.....	0	0	
2	29.95	760.6	30.01	762.3	51.3	10.7	97	calm.	0	0	.....	0	0	.....	.....	0	0	
3	29.95	760.8	30.02	762.5	54.7	12.6	96	se.	9	4	.....	.....	10k s	.....	.....	0.008	0.2	
4	30.03	762.7	30.10	764.4	54.1	12.3	73	calm.	0	0	.....	0	0	.....	.....	0	0	
5	29.91	759.7	29.98	761.4	51.3	10.7	94	ene.	9	4	.....	0	0	.....	.....	0	0	
6	30.05	763.4	30.12	765.1	56.3	13.5	97	s.	9	4	.....	0	8 n	.....	.....	0	0	
7	30.10	764.4	30.16	765.1	49.1	9.5	94	e.	9	4	.....	0	0	.....	.....	0	0	
8	29.87	758.6	29.93	760.3	58.1	14.5	71	ne.	13	6	.....	0	6 n	.....	.....	0	0	
9	29.85	758.3	29.92	760.0	53.4	11.9	83	calm.	0	0	.....	0	2	.....	.....	0	0	
10	30.14	765.5	30.21	767.2	55.9	13.3	71	e.	9	4	.....	4 c	0	.....	.....	0.008	0.2	
11	30.13	765.3	30.20	767.0	50.2	10.1	99	e.	9	4	.....	.....	10	.....	.....	0	0	foggy.
12	30.13	765.4	30.20	767.1	49.1	9.5	96	e.	13	6	.....	.....	10	.....	.....	0	0	foggy.
13	29.89	759.2	29.96	760.9	53.8	12.1	85	calm.	0	0	.....	0	0	.....	.....	0	0	
14	30.15	765.7	30.21	767.4	53.1	11.7	93	se.	18	8	.....	.....	10	.....	.....	0	0	foggy.
15	30.05	763.2	30.11	764.9	49.3	9.0	100	e.	9	4	.....	.....	10	.....	.....	0	0	foggy.
16	30.06	763.6	30.13	765.3	50.5	10.3	64	nne.	9	4	.....	.....	10	.....	.....	0	0	foggy.
17	30.10	764.4	30.16	765.1	46.4	8.0	75	ne.	13	6	.....	0	0	.....	.....	0	0	
18	30.18	766.5	30.24	768.2	45.9	7.7	70	calm.	0	0	.....	0	3 s	.....	.....	0	0	
19	30.08	763.9	30.14	765.6	52.7	11.5	87	ese.	22	10	.....	.....	10 n	.....	.....	0.177	4.5	raining.
20	30.09	764.2	30.15	765.9	52.3	11.3	97	calm.	0	0	.....	.....	10 n	.....	.....	0.299	7.6	raining.
21	30.07	763.8	30.14	765.5	52.0	11.1	91	calm.	0	0	.....	0	p	.....	.....	blank	blank	
22	30.08	764.0	30.15	765.7	44.4	6.9	81	ne.	18	8	.....	.....	10 n	.....	.....	0.138	3.5	raining.
23	30.15	765.7	30.21	767.4	30.0	— 1.1	52	ne.	18	8	.....	0	0	.....	.....	blank	blank	
24	30.23	767.9	30.30	769.6	30.4	— 0.9	65	calm.	0	0	.....	0	0	.....	.....	0	0	
25	30.30	769.6	30.37	771.3	32.2	0.1	75	calm.	0	0	.....	0	0	.....	.....	0	0	
26	30.40	772.2	30.47	773.9	36.1	2.3	84	e.	13	6	.....	0	4 s	.....	.....	0	0	
27	30.22	767.7	30.29	769.4	45.5	7.5	88	ese.	13	6	.....	0	4 k	.....	.....	0.114	2.9	
28	30.16	766.1	30.23	767.8	39.0	3.9	98	e.	9	4	.....	0	0	.....	.....	0	0	
29	30.24	768.1	30.31	769.8	44.1	6.7	82	e.	9	4	.....	0	4 s	.....	.....	0	0	
30	29.87	758.7	29.94	760.4	47.3	8.5	74	calm.	0	0	.....	.....	10 n	.....	.....	0.201	5.1	
31	29.24	742.8	29.31	744.5	40.1	4.5	92	calm.	0	0	.....	.....	10 n	.....	.....	0	0	
Mean	30.05	763.3	30.12	765.0	47.8	8.8	84.5	.....	8.1	3.6	.....	.....	4.7	.....	.....	0.945	24.0	

GRATZ, AUSTRIA (N. 47° 04′, E. 15° 28′).

DATE.	Barometer. Corrected for instrumental error and temperature. Inch.	Barometer. Corrected for instrumental error and temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative Humidity Per cent.	Wind. Direction. From.	Wind. Velocity. Miles perhour	Wind. Velocity. Metrs prsec.	Wind. Force 0-10	Clouds. Amount. Upper. 0-10	Clouds. Amount. Lower. 0-10	Clouds. Direction. Up'er From	Clouds. Direction. Lo'er From	Rainfall in past 24 hours. Inch.	Rainfall in past 24 hours. Mill.	WEATHER.
1883.																		
September 1	28.52	724.5	29.82	757.5	76.3	24.6	65	s.	.....	.....	1	.....	2	.....	.....	0	0	
2	28.44	722.4	29.62	752.3	75.7	24.3	52	sw.	.....	.....	6	.....	4	.....	.....	0	0	
3	28.67	728.3	29.89	759.2	65.7	18.7	80	w.	.....	.....	2	.....	6	.....	.....	0	0	
4	28.67	728.2	29.87	758.8	72.1	22.3	67	w.	.....	.....	3	.....	7	.....	.....	0	0	
5	28.59	726.2	29.82	757.4	59.5	15.3	63	nw.	.....	.....	5	.....	10	.....	.....	0	0	
6	28.72	729.4	29.95	760.7	60.4	15.8	75	e.	.....	.....	2	.....	10	.....	.....	1.256	31.9	
7	28.66	727.9	29.87	758.8	66.2	19.0	64	nw.	.....	.....	6	.....	0	.....	.....	0	0	
8	28.63	727.3	29.84	758.0	66.6	19.2	62	nw.	.....	.....	4	.....	2	.....	.....	0	0	
9	28.70	728.9	29.91	759.8	66.9	19.4	84	n.	.....	.....	4	.....	4	.....	.....	0	0	
10	28.82	732.1	30.05	763.3	63.0	17.2	63	e.	.....	.....	4	.....	6	.....	.....	0	0	
11	28.85	732.8	30.08	764.1	63.7	17.6	74	sw.	.....	.....	2	.....	3	.....	.....	0.067	1.7	
12	28.85	732.7	30.08	764.0	63.5	17.5	66	calm.	.....	.....	0	.....	10	.....	.....	0	0	
13	28.89	733.9	30.13	765.2	66.6	19.2	64	s.	.....	.....	1	.....	5	.....	.....	0	0	
14	28.91	734.4	30.15	765.7	64.4	18.0	70	s.	.....	.....	1	.....	0	.....	.....	0.197	5.0	
15	28.90	734.0	30.13	765.4	62.1	16.7	82	se.	.....	.....	1	.....	10	.....	.....	0	0	
16	28.93	734.8	30.17	766.2	61.9	16.6	82	ne.	.....	.....	1	.....	10	.....	.....	0.299	7.6	
17	28.95	735.2	30.18	766.6	63.1	17.3	85	calm.	.....	.....	0	.....	10	.....	.....	0	0	
18	28.88	733.6	30.11	764.9	64.9	18.3	66	ne.	.....	.....	1	.....	5	.....	.....	0	0	
19	28.86	733.1	30.10	764.6	59.9	15.5	85	nw.	.....	.....	4	.....	10	.....	.....	0	0	
20	28.74	730.1	29.97	761.3	63.1	17.3	72	se.	.....	.....	2	.....	0	.....	.....	0	0	
21	28.58	726.0	29.79	756.6	67.5	19.7	71	s.	.....	.....	1	.....	7	.....	.....	0	0	
22	28.55	725.2	29.76	756.0	64.6	18.1	70	sw.	.....	.....	2	.....	3	.....	.....	0.146	3.7	
23	28.60	726.5	29.82	757.5	63.1	17.3	56	nw.	.....	.....	2	.....	10	.....	.....	0.012	0.3	
24	28.80	731.4	30.03	762.7	61.2	16.2	56	sw.	.....	.....	3	.....	0	.....	.....	0	0	
25	28.79	731.2	30.02	762.6	59.5	15.3	74	sw.	.....	.....	1	.....	5	.....	.....	0	0	
26	28.86	733.1	30.10	764.4	63.5	17.5	69	s.	.....	.....	1	.....	3	.....	.....	0	0	
27	28.79	731.2	30.00	762.1	65.3	18.5	71	w.	.....	.....	2	.....	3	.....	.....	0	0	
28	28.61	726.7	29.84	757.8	61.0	16.1	79	w.	.....	.....	2	.....	10	.....	.....	0	0	
29	28.45	722.7	29.69	754.0	56.8	13.8	80	w.	.....	.....	1	.....	10	.....	.....	0.681	17.3	
30	28.35	720.2	29.58	751.2	59.0	15.0	80	w.	.....	.....	1	.....	7	.....	.....	0.055	1.4	
Mean	28.72	729.5	29.95	760.6	64.2	17.9	70.9	.....	.....	.....	2.2	.....	5.9	.....	.....	2.713	68.9	
October 1	28.38	720.9	29.63	752.6	63.0	17.2	63	se.	.....	.....	1	.....	2	.....	.....	0	0	
2	28.61	726.8	29.85	758.1	57.4	14.1	71	sw.	.....	.....	2	.....	10	.....	.....	0.244	6.2	
3	28.65	727.8	29.89	759.3	56.7	13.7	73	e.	.....	.....	2	.....	8	.....	.....	0.055	1.4	
4	28.45	722.7	29.69	754.0	57.4	14.1	65	s.	.....	.....	2	.....	10	.....	.....	0.157	4.0	
5	28.49	723.7	29.74	755.4	52.3	11.3	52	n.	.....	.....	2	.....	10	.....	.....	0.240	6.1	
6	28.54	724.9	29.78	756.3	54.7	12.6	53	n.	.....	.....	5	.....	4	.....	.....	0.244	5.7	
7	29.07	738.3	30.34	770.6	51.3	10.7	67	w.	.....	.....	2	.....	8	.....	.....	0	0	
8	29.20	741.7	30.47	774.0	52.2	11.2	68	calm	.....	.....	0	.....	0	.....	.....	0	0	
9	29.10	739.0	30.35	771.0	56.8	13.8	58	s.	.....	.....	1	.....	0	.....	.....	0	0	
10	28.92	734.5	30.16	766.1	58.1	14.5	72	s.	.....	.....	1	.....	10	.....	.....	0	0	
11	28.77	730.7	30.02	762.5	54.1	12.3	76	s.	.....	.....	2	.....	10	.....	.....	0	0	
12	28.70	729.0	29.94	760.5	57.7	14.3	56	sw.	.....	.....	1	.....	3	.....	.....	0	0	
13	28.85	732.9	30.10	764.5	58.1	14.5	62	e.	.....	.....	2	.....	10	.....	.....	0	0	
14	28.96	735.5	30.21	767.4	55.0	12.8	70	e.	.....	.....	2	.....	10	.....	.....	0	0	

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

REVIEW.

INTERNATIONAL METEOROLOGY FOR OCTOBER, 1883.

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

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

Only one area of low mean pressure appears on the chart for October, 1883; this area is indicated by the isobar for 29.4 (746.7), and is situated in Iceland, where the mean pressure, at Stykkisholm, is 29.37 (746.0). To the southward and eastward of the low area the barometric gradient increases gradually until the isobar for 30.0 (762.0), which runs from Newfoundland eastward along the forty-ninth parallel, is reached. In British India the means range from 29.81 (757.2) to 29.9 (759.4). In that part of Europe lying north of the sixtieth parallel the mean pressure ranges from 29.55 (750.6) in northern Scandinavia to 29.82 (757.4) at Saint Petersburg, Russia. In the British Isles and over the European continent, between N. 52° and 60°, the mean pressure ranges from 29.8 (756.9) to 30.0 (762.0); in all other parts of Europe it exceeds 30.0 (762.0). In the North American continent the lowest mean pressures are found in southwestern Arizona and the northern part of the Gulf of California, where they vary from 29.88 (758.9) to 29.9 (759.4). In British Columbia the pressure is less than 30.0 (762.0), but in all other parts of the continent it exceeds that amount.

Four areas of barometric maxima are exhibited on the chart; these are each enclosed by the isobar for 30.2 (767.1), and are distributed geographically as follows: the first is shown in the United States and covers the territory from N. 38° northeastward over the Atlantic seaboard states to N. 44° and between W. 70° and 78°. The second area occupies the Atlantic ocean from W. 20° westward to W. 40° and between N. 30° and 40°; at the centre of this area, near the Azores, the mean pressure is 30.26 (768.6); elsewhere over the Atlantic ocean, south of N. 50°, the pressure exceeds 30.0 (762.0). The third area stretches from the Caspian Sea eastward over Turkestan and southward to the borders of Afghanistan, the pressure over the this region being above 30.2 (767.1). The fourth area of high pressures is situated in that part of Asia bounded by the meridians of 80° and 112°, east longitude, and the parallels of 45° and 55°, north latitude. In other parts of Asia, excepting Hindostan and the region near the Sea of Okhotsk, the mean pressure exceeds 30.0 (762.0).

A comparison with the chart for the preceding month (September), shows the following changes to have occurred: over the eastern slope of the Rocky mountains and in the west Gulf states, the mean pressure is slightly below that of the preceding month. In all other sections of the United States it is above that for September, the increase being most marked in New England and in Canada. Over the Atlantic Ocean, south of 50° north latitude, there has been a general increase of pressure; between N. 50° and 60° there has been no material change, but to the northward of 60° and east of W. 30°, there has been a decrease of about .3 inch. In Europe there has been a general increase of pressure throughout the continent except in Scandinavia, where the mean pressure averages about .15 inch less than that for September. The increase is greatest in Austria, France, and the British Isles, and is least in Russia and in Denmark. Throughout Asia there has been a general and decided increase of pressure.

Compared with the corresponding month of previous years, the mean atmospheric pressure over the United States was slightly below the normal in the southern part of the country; on the Pacific coast, and in the Rocky mountain districts. In the northern districts east of the Mississippi river it was above the normal. In Canada the mean pressure was above the normal. In Europe the mean atmospheric pressure was slightly above normal in all districts, except in Russia and in the Danish and Scandinavian peninsulas; in the last-mentioned district the deficiency was about .14 inch. In British India it was .04 inch above the six years mean.

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

Countries.	Mean pressure.			Mean temperature.		
	Oct. mean of 6 (1877-'82) years.	Oct., 1883.	Departure.	Oct. mean of 6 (1877-'82) years.	Oct., 1883.	Departure.
				°	°	°
Algeria	30.07	30.10	+ 0.03	72.4	70.8	— 1.6
Austria	29.99	30.06	+ 0.07	56.7	56.2	— 0.5
British Isles	29.91	29.94	+ 0.03	52.6	53.1	+ 0.5
Denmark	29.90	29.86	— 0.04	49.1	50.6	+ 1.5
France	29.98	30.08	+ 0.10	61.8	57.0	— 4.8
Germany	29.97	30.01	+ 0.04	51.1	52.6	+ 1.5
India	29.82	29.86	+ 0.04	81.2	81.5	+ 0.3
Italy	29.98	30.04	+ 0.06	65.0	64.0	— 1.0
Norway	29.82	29.65	— 0.17	45.5	45.8	+ 0.3
Portugal	30.05	30.13	+ 0.08	67.0	64.2	— 2.8
Russia	30.01	29.99	— 0.02	48.6	50.3	+ 1.7
Spain *	29.99	30.11	+ 0.12	66.0	62.7	— 3.3
Sweden	29.87	29.76	— 0.11	42.5	44.1	+ 1.6

* Mean for five years only.

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

Stations.	Mean pressure.			Mean temperature.		
	Oct. mean of 6 (1877-'82) years.	Oct., 1883.	Departure.	Oct. mean of 6 (1877-'82) years.	Oct., 1883.	Departure.
				°	°	°
Gibraltar	30.04	30.10	+ 0.06	70.0	68.6	— 1.4
Malta, Mediterranean Sea	29.99	30.01	+ 0.02	74.0	72.2	— 1.8
Sandwick Manse, Orkney Islands	29.86	29.71	— 0.15	48.4	48.2	— 0.2
Bridgetown, Barbadoes*	29.93	.....	.....	82.4	.....	.....
Cape Town, Cape Good Hope	30.05	29.90	— 0.15	70.7	70.7	normal
Fort Napier, Natal, South Africa	29.87	29.87	normal	73.2	76.9	+ 3.7
Freetown, Sierra Leone	29.91	29.94	+ 0.03	83.9	83.6	— 0.3
Mauritius, Indian Ocean	30.11	30.11	normal	75.1	74.3	— 0.8
Melbourne, New South Wales	29.98	29.99	+ 0.01	54.6	54.0	— 0.6
Nassau, Bahamas	30.00	30.03	+ 0.03	79.8	80.6	+ 0.8
Godthaab, Greenland	29.70	29.63	— 0.07	30.1	27.1	— 3.0
Stykkisholm, Iceland	29.74	29.37	— 0.37	39.8	39.9	+ 0.1
Thorshavn, Färöe Islands	29.77	29.59	— 0.18	45.8	46.9	+ 1.1
Zi-Ka-Wei, China	30.15	30.17	+ 0.02	60.9	61.5	0.6
Athens, Greece	30.02	30.03	+ 0.01	72.3	72.0	— 0.3
Cagliari, Sardinia, Italy	29.95	30.02	+ 0.07	70.9	67.8	— 3.1
Tokei, Japan	30.07	30.09	+ 0.02	57.8	61.0	+ 3.2
Angra, Azores*	30.06	.....	.....	66.7	66.9	+ 0.2
Funchal, Madeira Islands	30.11	30.16	+ 0.05	73.0	71.1	— 1.9
Ponta Delgado, Azores	30.08	30.28	+ 0.20	69.5	70.0	+ 0.5
Archangel, Russia	29.84	.....	.....	38.0	.....	.....
Tiflis, Russia	30.10	30.13	+ 0.03	65.2	68.4	+ 3.2
Astrakhan, Russia	30.15	30.19	+ 0.04	56.1	59.5	+ 3.4
Ekaterinburg, Russia	30.03	29.89	— 0.14	36.9	36.9	normal
Tashkend, Toorkistan, Asia	30.21	30.17	— 0.04	54.8	62.2	+ 7.4
Barnaul, Siberia, Asia	30.16	30.15	— 0.01	37.5	40.6	+ 3.1
Yeniseisk, Siberia, Asia	30.10	30.14	+ 0.04	29.2	31.6	+ 2.4
Pekin, China	30.16	30.15	— 0.01	53.6	56.5	+ 2.9
Nikolaevsk on the Amoor, Asia	.....	29.94	.....	.....	35.4	.....
San Juan de Puerto Rico, W. I.	29.95	29.99	+ 0.04	80.8	79.5	— 1.3
Beirut, Turkey in Asia	29.95	29.98	+ 0.03	79.1	79.9	+ 0.8
Mexico, Mexico	30.21	.....	.....	53.5	.....	.....
Havana, Cuba, W. I.	29.97	30.00	+ 0.03	78.5	75.5	— 3.0
Paramaribo, D. Guiana, S. A.	29.99	30.00	+ 0.01	80.8	79.7	— 1.1
York Factory, B. A.	29.96	30.15	+ 0.19	23.3	28.5	+ 5.2

* Means for five years only.

In the United States the mean temperature of the air was above the normal in the country lying south of the thirty-fifth parallel and east of the one hundred and fifth meridian; in this section the excess was from 1° to 5°. In all other districts of the United States the temperature was from 2° to 6° below the normal. In Canada it was also considerably below the normal. In Europe the mean temperature of the air was slightly below normal in the southern peninsulas, in France, and in Austria; in all other countries it was normal or slightly above the normal. In Hindostan it was 0°.3 above the six years' mean; the highest mean reported was 86°.2 Fahr. (30°.1

Cent.) at Kurrachee, and the lowest was 73°.9 Fahr. (23°.3 Cent.) at Belgaum.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	83.6	28.7	Jacobshavn, Greenland	20.3	— 6.5
Cairo, Egypt	81.9	27.7	Godthaab, Greenland	27.1	— 2.7
Nassau, Bahamas	80.6	27.0	York Factory, B. A.	28.5	— 1.9
Beirut, Syria	79.9	26.6	Yeniseisk, Siberia	31.6	— 0.2

In the United States the prevailing winds were mostly northerly and northeasterly over the country east of the ninetieth meridian; in the other districts they were from south, east, northeast, and north, and on the Pacific coast they were variable. Over the Atlantic ocean the prevailing winds were northeasterly and easterly from the coast of the United States eastward to the sixty-fifth meridian and between N. 20° and 45°. Between N. 30° and N. 45° and from W. 65° to 30° they were mostly southerly; from W. 30° eastward to the European coasts and between N. 30° and 45° they were northeasterly and northerly. South of N. 30° they were easterly, and north of N. 45° they were northwesterly. In Europe the winds were mostly from south to southwest. In Japan the winds were mostly northerly.

The rainfall (including melted snow) during October, 1883, was less than the average in the lake districts of the United States, in the south Atlantic and east Gulf states, Rio Grande valley, in Idaho and Montana, and in the north Pacific coast region; in all other districts it was greater than the average, the excess being most marked in the Ohio valley, Tennessee, Florida, and New England. In Canada the rainfall was below the average. In Europe it was about the average.

STORM-TRACKS FOR OCTOBER, 1883, AND APRIL, 1882.

With this SUMMARY are issued the international storm-track charts for the months of October, 1883, and April, 1882. Hereafter, the storm-track chart for the month corresponding to that for which the SUMMARY is published, will be issued with that SUMMARY. The charts covering the intervening period (May, 1882, to September, 1883,) will be prepared as soon as practicable and will be published with the SUMMARY, from time to time, until the series is brought up to date.

These charts continue the international series begun in November, 1877. The data are charted for each day of the month, on the maps accompanying each issue of the "International Bulletin," and from these charts and additional miscellaneous data are traced the movements of the centres of barometric minima.

The following refers to the chart for October, 1883:

During October, 1883, the paths of thirty-six depressions that have appeared in the northern hemisphere have been determined; the geographical distribution of these disturbances was as follows: Nine depressions are traced in the North American continent; six of these moved with more or less rapidity from southwest to northeast; two passed eastward near the northern boundary of the United States, and one (number ii.) apparently originated in Mexico, and pursued a somewhat abnormal path, moving, first, north-northwestward over Arizona and southeastern California, to about latitude 42° north, and thence northward and eastward to British America.

Nine depressions are traced on the Atlantic ocean; of these, three are continuations of storms which developed in, and passed over the United States and Canada; while these disturbances advanced sufficiently near the European coasts to materially affect the weather conditions over western Europe, the centre of one only (number xiv.), appears to have actually entered the continent. One disturbance prevailed over the region between Bermuda and the coast of the United States, and one was first noted in the vicinity of the Bahamas, from which region it moved northeastward along the coast of the Carolinas. One depression developed in mid-ocean, and one near the coast of Labrador. Two depressions are shown in Greenland, these passed southeastward and entered the European continent. The general direction of movement of the storms which crossed the Atlantic was northeastward, with the exception of the two which developed in Greenland.

Of the storm-centres traced in Europe, five entered the continent north of the sixtieth parallel, and moved in an easterly or southeasterly direction; one appeared in Germany, and moved northeastward over the Baltic to the White Sea; and one developed over the North Sea, and passed southeastward to the Adriatic, where it recurved and moved off in an east-northeasterly direction. Two depressions are exhibited over the Mediterranean, and one in central Russia; one developed in northern Russia and moved eastward into Siberia.

Five depressions appeared in Japan, their general movement being from southwest to northeast. Number xxxiii. indicates the position of a disturbance which appeared in the Pacific ocean on the 9th and 10th, and numbers xxxiv., xxxv. and xxxvi. are depressions which occupied Alaska and Behring Sea.

The following are descriptions of the depressions charted:

I.—This disturbance appeared in Colorado on the 1st, the pressure near the centre being 29.68 (753.9); as the depression moved rapidly east-northeastward it caused rainy weather in the districts to the eastward, and by the morning of the 2d it occupied the Ohio valley, the barometric minimum being 29.43 (747.5) at Columbus, Ohio. During the day it passed into the Atlantic from the Massachusetts coast, followed by clearing weather in the districts to the westward of the coast line. This disturbance is hereafter referred to as low area xi.

II.—This disturbance was in northwestern Mexico and the Gulf of California on the 1st. The observer at Altata, state of Cinaloa, Mexico, reported: at 9 p. m. of the 1st, a strong wind sprang up from ne. and changed suddenly to all points of the compass, increasing in force until 5 a. m. of the 2d. The gale destroyed the town of Altata, leaving only four houses standing. The observer's anemometer was carried away, so that the velocity of the wind could not be ascertained. In some places the sea washed as far as one mile beyond high-water mark. The bark "Harmodius," at Mazatlan, had to cut away her three masts to avoid being driven ashore during a severe gale on the 2d and 3d. During the 2d the disturbance appears to have entered the United States, and, passing northwestward over Arizona, it was shown in southeastern California on the 3d, its centre being then enclosed by the isobar for 29.6 (751.8). By the 4th it had moved northward to British Columbia, causing moderate to strong northerly gales off the coast, and by the following day the depression occupied the Northwest Territories, where it finally dissipated.

III.—This depression developed in Arizona and New Mexico on the night of the 6th, and on the morning of the 7th its centre was enclosed by the isobar for 29.8 (756.9). The disturbance moved rapidly in a north-northeasterly direction to northern Minnesota and Manitoba, where it appeared on the 8th, with pressure near the centre 29.56 (750.8). Cloudy, rainy weather prevailed in the central valleys during its passage, and on the 8th the rains extended to the lake region. On the 9th the depression occupied Lake Superior, the pressure having increased to 29.65 (751.1); but unsettled and showery weather continued in the lake region and along the Saint Lawrence valley. On the 10th the disturbance was over the northern part of the province of Quebec, whence it passed northeastward over Labrador to the ocean; this is hereafter described as low area xiv.

IV.—This was an extensive but shallow depression which occupied the Ohio valley, Tennessee, and the Gulf states on the 13th, the barometric minimum, 29.9 (759.4), being in Louisiana. Rain fell in the upper lake region and in the Mississippi valley on the 13th, and extended on the 14th to the lower lakes and eastward to the coast line. On the 14th the area of low pressure occupied western New York and the New England states, where

the pressure ranged from 29.7 (754.4) to 29.8 (756.9); moderate southwesterly gales prevailed along the New England coast, with high northerly winds over the lake districts. During the 14th the disturbance passed over New England and the Canadian Maritime Provinces and entered the Atlantic, where it was shown on the 15th off the coast of Newfoundland; during that date it probably became merged in an extensive depression which occupied the ocean north of the fiftieth parallel.

V.—This depression appeared in the southwestern part of the United States on the 16th, the pressure at the centre of disturbance being about 29.75 (755.6). By the 17th the area of depression occupied Colorado, Nebraska, and Kansas, over which districts the pressure ranged from 29.5 (749.3) to 29.6 (751.8), with rainy weather accompanied by high winds over the country to the northward and northeastward of the centre. On the 18th the disturbance was shown in Manitoba, where it was joined by a depression which had advanced from the northwest; at the centre of disturbance the barometer read 29.25 (742.9), and the isobar for 29.4 (746.7) stretched from Manitoba eastward to Lake Superior. An area of high pressure occupied the Atlantic coast districts on the 18th, and as the disturbance moved eastward the barometric gradient became somewhat steep, and moderate southerly gales prevailed over the lakes. The depression moved eastward with increasing pressure and was attended by showery weather along the Saint Lawrence, and on the 19th it disappeared to the eastward of Hudson Bay.

VI.—This depression appeared in the Saskatchewan valley on the 17th, when low area v. was in Kansas; it moved eastward, attended by rainy weather, and on the 18th it coalesced with low area v. in Manitoba.

VII.—This disturbance probably developed over the western part of the Gulf of Mexico on the 23d, and by the following day its centre was on the Texas coast, where the pressure was 29.95 (760.7). By the 25th it had moved northeastward to Illinois and Ohio, where the barometric readings ranged from 29.8 (756.9) to 29.95 (760.7); moderate easterly winds with cloudy weather and occasional rain prevailed over the lake region. On the 26th the centre of disturbance was near Buffalo, where the barometer read 29.93 (760.2); during the day it passed eastward over New England into the Atlantic, and is hereafter described as low area xviii.

VIII.—This depression appeared off the coast of Oregon and Washington Territory on the 24th, the pressure at the land stations being less than 29.5 (749.3) on that date. During the 25th and 26th, the disturbance moved slowly eastward, causing cloudy, rainy weather in the northern plateau district, and in California southward to San Francisco. On the 27th the disturbance was in the Saskatchewan valley, where the pressure was 29.4 (746.7). On the 28th it occupied the same region, with no material change in pressure; on the 29th the region of least pressure was shown in Manitoba, where the barometer read 29.33 (745.0), the trough of low pressures extending northwestward over the Northwest Territories and causing rain or snow in the northwestern sections of the United States and in British America. An area of high pressures occupied the Hudson Bay region, and the disturbance was apparently forced in an east-southeasterly direction, combining, on the 30th, near the mouth of the Saint Lawrence river, with a depression which had moved from Kansas northeastward over the lake region.

IX.—This disturbance appeared in Colorado on the 28th, on which date the pressure in that state was below 29.6 (751.8), while over the region between the meridians of 90° and 110° it was below 29.8 (756.9), and a deep depression was in the Saskatchewan valley; cloudy or rainy weather prevailed over the country from the Mississippi river eastward to the lake region. The disturbance moved northeastward with slowly decreasing pressure, and on the 29th it was shown in northern Indiana and Michigan, where the barometer read 29.4 (746.7), and showery weather prevailed from Lake Michigan eastward to the Atlantic coast. As the depression moved northeastward over the provinces of Ontario and Quebec, it was joined by low area viii, the combined system forming a deep depression which exhibited great energy; on the 30th, the storm-centre, where the pressure was now below 28.9 (734.0) was near Quebec; an area of high pressures existed to the eastward of the Maritime Provinces, and as the depression approached the Atlantic, steep barometric gradients were formed, so that strong southerly and easterly gales prevailed over the Maritime Provinces, the Gulf of Saint Lawrence, and over the Atlantic as far as the fifty-fifth meridian. Another area of high pressures occupied the region north of Lake Superior, and as the winds shifted to westerly over the lakes, they attained the force of a strong gale; high westerly winds also occurred at stations on the New England coast. On the 31st the depression was over the Gulf of Saint Lawrence, the pressure at Anticosti Island being 29.11 (739.4) at the morning observation. The wind shifted to westerly over the Maritime Provinces, and moderated slightly, but violent westerly gales were reported on the Banks, with equally heavy southerly and southwesterly gales from W. 50° eastward to W. 35°.

The following are descriptions of the disturbances traced over the Atlantic and in Europe:

X.—This depression was shown off the coast of Labrador on the 2d, the lowest reported barometric reading being 29.33 (745.0) in N. 52°, W. 54°. It moved northward, and on the 3d the low area was shown in Greenland, the barometer at Godthaab reading 29.10 (739.1), a fall of about .6 inch during twenty-four hours. The depression apparently continued its northerly movement, and was probably closely connected with that charted as low area xii.

XI.—This was a continuation of the depression traced over the United States as low area i. It passed into the Atlantic on the 2d, and, moving northeastward along the coast of Nova Scotia, was central east of Cape Breton Island on the 3d; on the 4th it was near the Strait of Belle Isle, attended by moderate to strong southwesterly gales on the Banks of Newfoundland. During the 5th it probably merged in a depression which occupied Greenland.

XII.—On the 5th the barometer at Jacobshavn, Greenland, read 29.11 (739.4), the pressure at that station having been unsteady since the 3d. By the 6th the decrease had extended eastward to Iceland, where the barometer on the 6th showed a fall of about .4 inch. On the 7th the area of low barometer was shown off the Norwegian coast, and rainy weather had become general over the Scandinavian peninsula; during the day the depression passed over northern Scandinavia, and on the 8th the barometric minimum, 29.07 (738.4), was reported at Petrozavodsk, Russia; moderate to strong westerly winds prevailed over Scandinavia, the Baltic, and northeastern Europe, with cloudy or rainy weather, while an area of high pressure, giving clear weather and higher temperature, prevailed over central and southwestern Europe. By the 9th the depression had advanced to eastern Russia; moving thence eastward, it crossed the Ural mountains and disappeared in Siberia.

XIII.—This disturbance apparently originated in the neighborhood of Bermuda on the 8th; on that date the pressure over the ocean between Bermuda and W. 60° and N. 29° decreased about .25 inch. On the 9th the storm-centre was a little to the eastward of Bermuda, where the barometer now read 29.51 (749.5), wind n.; moderate to strong northerly gales prevailed over the ocean between the United States and Bermuda, with easterly gales to the northward of 35° N. and westerly and southwesterly breezes to the southward of 28° N. By the 10th the storm-centre had passed to the westward of Bermuda; the pressure over the region between W. 62° and 70° and N. 27° and 33° remained about 29.7 (754.4), and the wind at Bermuda shifted to southwest and increased to a gale, as did also the southwesterly winds encountered by vessels in the southeast quadrant of the disturbance. To the westward and northward the heavy gales continued, the wind gradually shifting to northeast between Bermuda and the coast line. On the 11th the reports showed the storm-centre to be near

N. 30°, W. 74°, the lowest reported pressure being 29.74 (755.4); strong northerly and northeasterly gales prevailed off the coast of Florida and the Carolinas, while the winds shifted to southeast over the region east of the seventieth meridian, and gradually moderated. During the 12th and 13th the storm-centre was off the coasts of Georgia and South Carolina, and, owing to the presence of a rather steep barometric gradient to the eastward and northeastward of the depression, moderate to strong southeasterly and easterly gales prevailed along the coast from North Carolina northward to the fortieth parallel and eastward to the seventieth meridian. During the 13th the disturbance appears to have entered South Carolina as a shallow depression and to have rapidly filled in. The schooner "Elise and Lucie" encountered this storm and reported on the 9th, when in the latitude of Bermuda and W. 74° 30′, that she had a hurricane from northeast, lasting four days, during which she lost and split sails; ocean steamers arriving in New York reported having met with a very heavy southeasterly sea-swell on the 11th in N. 41°, and from W. 66° to 72°.

XIV.—This was a continuation of the depression charted as low area iii.; it passed off the Labrador coast during the 10th, and on the following day it was central near N. 57°, W. 40°, where the lowest reported barometric reading was 29.52 (749.8); moderate westerly and southwesterly gales prevailed over the ocean between W. 50° and 30°, and N. 45° and 55°. By the 12th the region of least pressure was shown near N. 56°, W. 26°, the barometer having fallen to 29.14 (740.1); strong northwesterly breezes to moderate gales occurred over the region west of the thirtieth meridian; and to the eastward of the twenty-fifth meridian the winds were southerly and southwesterly, but they did not exceed the force of a moderate gale. On the 13th, the storm-centre was to the southward of Iceland, where the barometer had fallen to 28.89 (733.8); during the 14th and 15th, the disturbance moved slowly southward, the pressure at the centre remaining below 29.0 (736.6), and throwing off subsidiary depressions, which traveled over the British Isles, giving rainy weather and strong winds to gales over those Islands and the North sea. The passage of the disturbance was probably retarded by the area of high barometer which occupied northeastern and eastern Europe during the 13th, 14th and 15th, but on the 16th this high area began to withdraw to the southeastward, and at the same time, the depression advanced to northern Scotland. On the 16th, the lowest barometric readings were reported from the Orkney and Shetland Islands, where the pressure was 28.64 (727.4), and 28.8 (731.5), while the barometer stood below 29.0 (736.6) over the whole of Scotland, and the northern part of Ireland. During this date, strong southwesterly breezes to gales, with rainy weather prevailed over the British Isles and western Europe, while the wind moderated over the ocean west of the fiftieth meridian. On the 17th the storm-centre was near the Färöe Islands, barometer at Thorshavn reading 28.49 (723.6), and stormy weather continued over the greater part of western Europe and the Scandinavian peninsula. On the 18th the centre of disturbance was in Norway, the barometric minimum, 28.63 (727.2), being at Brono. Steep gradients formed over the British Isles and that part of Europe lying north of the fiftieth parallel, so that strong westerly gales prevailed generally from W. 20° eastward to E. 15°, with southerly and southwesterly gales over the Gulf of Bothnia and in the Russian Baltic Provinces. During the 19th and 20th the centre of disturbance remained in Scandinavia with no change of pressure, and during those dates small subsidiary disturbances formed to the southward of the central depression and passed eastward, giving heavy rains. During the 21st the pressure began to increase, and the chart for that day showed the low area to be over southern Sweden and the Baltic, where the pressure ranged from 29.26 (743.2) to 29.3 (744.2); as the barometric gradient declined rapidly, the wind in nearly all districts moderated to fresh or strong breezes. On the 22d the depression occupied the Gulf of Finland, the pressure having increased to 29.6 (751.8); showery weather prevailed in the Russian Baltic Provinces, followed by fair weather on the 23d, when the depression filled in.

XV.—This disturbance occupied northern Greenland on the 20th and 21st; it moved southeastward with decreasing pressure, and on the 22d it was shown near Iceland, pressure at Stykkisholm, 28.67 (728.2). Rather steep gradients were formed over the ocean south of Iceland, and moderate to strong westerly gales were reported by vessels on the fiftieth parallel. On the 23d the storm-centre was between Iceland and the Färöe Islands, and rain was falling in the British Isles and Scandinavia, with decreasing pressure in the northern districts. During the 24th and 25th the disturbance was between the Färöe Islands and the Norwegian coast, the pressure on the last-mentioned date having decreased to 28.8 (731.5); westerly and southwesterly winds, increasing to strong gales, occurred in the British Isles, North Sea, and northern Germany, with southerly and southeasterly breezes in the Baltic and Scandinavia, and showery weather in nearly all districts of western and northern Europe. On the 26th the region of least pressure occupied the southern part of the Gulf of Finland, accompanied by strong gales over the Baltic, where the winds had now shifted to west. During the day the depression moved eastward and passed into northeastern Russia, where it was central on the 27th. On the 28th and 29th it occupied the Ural region, causing fresh to strong westerly breezes over eastern Russia and southward to the Caspian Sea. By the 30th it had passed into Siberia, where it apparently dissipated.

XVI.—This depression appears to have developed in the sub-tropical region near the Bahamas on the 22d, but it did not attain any great depth or display unusual storm-energy during the earlier part of its path. On the 22d the pressure over the Bahamas and the West Indies was about 29.88 (758.9) and over the region north of the twenty-seventh parallel it was above 30.0 (762.0); moderate to strong northeasterly gales were reported during that day by vessels in the Gulf stream and near the coasts of the United States. On the 23d, the disturbance was near the Carolina coast but the barometer did not fall below 29.95 (760.7), but owing to a somewhat steep gradient that existed to the northward and northeastward, very strong easterly and northeasterly gales prevailed along the coast of the United States from Hatteras, North Carolina, to Cape Cod, Massachusetts. On the 24th the depression pushed steadily northeastward against the area of high pressures which persisted to the northward of the fortieth parallel, causing a steepening of the barometric gradient and an increase in the force of the easterly and northeasterly gales; the southerly and southeasterly winds to the eastward of the depression also increased in force. The chart for the 25th, showed the centre of disturbance for the first time, enclosed by the isobar for 29.8 (756.9), near N. 41°, W. 61°; an area of high barometer occupied the region from W. 52° eastward to W. 40° and from N. 25° northward to N. 48°, so that steep gradients were formed to the eastward of the depression, which produced violent southerly and southeasterly gales. On the 27th the disturbance moved to about N. 42°, W. 46°, the pressure remaining about 29.75 (755.6); as the gradients had declined in all quadrants of the depression, the winds during the 26th did not exceed the force of a moderate gale, but on the 27th, owing to a great decrease of pressure that occurred at the centre of disturbance, they again attained the force of 10. On the 27th, the lowest barometer reading was 29.02 (737.1), in N. 48° W. 32°, the depression extending as a trough of low pressure northward to Iceland. By the 28th, the disturbance had moved north-northeastward to about N. 60°, W. 21°, and during that and the three following days, it was apparently forced to the westward in the vicinity of Iceland, the pressure fluctuating between 29.0 (736.6) and 29.3 (744.2). An area of high pressures, which appeared in southeastern Europe on the 26th, began to move northwestward with increasing pressure and by the 29th and 30th, it had spread over the whole of northern and western Europe, the pressure at the centre, in western Russia, being 30.7 (779.8). The movement of this

area of high pressures probably accounts for the northerly and westerly movement of the low area.

XVII.—This disturbance appeared near N. 49°, W. 42° on the 23d, when the barometer suddenly fell to 29.27 (743.4) a decrease of about .7 inch. The depression moved northeastward, and during the 24th it apparently merged in low area xv., which then occupied the Färöe Islands. Strong breezes to moderate gales attended the passage of this disturbance.

XVIII.—This was a continuation of low area vii.; it entered the Atlantic during the 26th, the pressure gradually decreasing after the disturbance left the land, and on the 27th it was central near N. 43°, W. 60°. On the 28th it was near N. 43°, W. 48°, the pressure having decreased to 29.27 (743.4) near the centre; strong northerly and northeasterly winds prevailed over the Banks of Newfoundland, with moderate to strong easterly and southerly winds to the northward and eastward of the low area. On the 29th the disturbance was shown near N. 48°, W. 34°, with the barometer down to 29.12 (739.5), and very heavy southerly gales to the eastward of the thirtieth meridian; on the 30th it was near N. 53°, W. 28°, and during the day it probably became merged in low area xvi.; the combined depressions causing a continuance of heavy westerly gales over the region south of the fifty-fifth parallel at the close of the month.

XIX.—This disturbance occupied central and western Europe on the 1st, the barometric minimum, 29.48 (748.8), being in Germany. On the 2d the low area was in southern Sweden, the pressure at the centre remaining unchanged; during the 3d and 4th it moved northeastward to northern Russia and disappeared in the White Sea region. During its passage it caused showery weather in the British Isles and in the northern and western districts of Europe.

XX.—This was a depression which appeared in central Russia on the 2d; it moved northeastward, with steadily decreasing pressure, and on the 3d its centre was shown near Kasan, where the barometer read 29.33 (745.0). On the 4th it was central in the Ural region, barometer at Ekaterinburg 29.17 (740.9); during the day the disturbance passed into Siberia, and on the 5th it was shown near Yeniseisk, and by the following day it had passed beyond the stations of observation.

XXI.—This depression developed over the North Sea on the 3d; it moved southward with decreasing pressure at the centre, and attended by general rains in western Europe. On the 4th the centre was enclosed by the isobar for 29.4 (746.7), which covered the Netherlands and the northern part of the Channel; strong northerly breezes to moderate gales prevailed over the British Isles; westerly and northwesterly breezes in France, and southerly and southeasterly winds in Denmark and Germany, with cloudy or rainy weather in most districts. The disturbance moved southeastward over Germany, and by the 5th it occupied northern Italy; during the day it passed east-northeastward over Austro-Hungary, and disappeared in Russia on the 6th, its passage being attended by showery weather and brisk winds.

XXII.—This depression appeared in the region south of the White Sea on the 5th; on the 6th it was near Lake Onega, causing a strong northeasterly gale at Petrozavodsk. On the 7th the area of low barometer occupied northern Russia, and showery weather prevailed in the districts to the southward and westward of the disturbance. On the 8th this disturbance crossed the Ural mountains and disappeared in western Siberia, causing a moderate northerly gale at Ekaterinburg.

XXIII.—This was a depression which appeared near Akmolinski, Siberia, on the 6th, when the barometer at that station fell to 29.19 (741.5). By the following day the depression had apparently filled in, the barometer having risen to 30.19 (766.8).

XXIV.—This disturbance appeared in the extreme northern part of Scandinavia on the 8th, and remained in that region until the 9th, when it began to move southeastward. On the 10th the centre was to the southwestward of Archangel, with the pressure below 29.2 (741.7); it moved thence eastward, and on the 11th it occupied the Ural region, lowest barometer reported being 29.43 (747.5). On the 12th it moved into northeastern Siberia and disappeared.

XXV.—This appeared on the 11th, off the coast of Norway; on the 12th its centre was in Finland, where the pressure was 29.35 (745.5); strong northwesterly gales prevailed over the Gulf of Bothnia and at stations in Scandinavia. On the 13th the depression was central north of Archangel, where the barometer read 29.53 (750.0); during the day the disturbance disappeared in the Arctic region.

XXVI.—This depression appeared in the Mediterranean on the 12th, on which date the centre was north of Sicily where the pressure was 29.83 (757.7). On the 15th the centre was near the entrance to the Adriatic; by the following day the the depression had filled in. Moderate rains accompanied the passage of this disturbance.

XXVII.—This depression developed over the Mediterranean near the eastern coast of Spain on the 21st; it moved slowly northeastward and on the 22d it occupied the Gulf of Genoa, where the pressure was about 29.85 (758.2). Rainy weather prevailed in the French districts adjoining the Mediterranean, and over Italy; on the 23d the depression occupied the Adriatic, the lowest reported barometric reading being 29.85 (758.2). During the day the disturbance moved eastward over Austro-Hungary, and on the 24th its centre was enclosed by the isobar for 29.8 (756.9); on the 25th it was to the northward of the Black Sea, where it apparently dissipated. Its passage was attended by showery weather and fresh to brisk winds.

The following descriptions refer to the depressions charted in Japan:

XXVIII.—This depression appeared off the coast of southern Japan on the 4th, the pressure at the land stations being about 29.85 (758.2). As the disturbance moved northeastward along the coast, showery weather prevailed in Niphon, with fresh to brisk winds at coast stations. On the 5th the storm-centre was enclosed by the isobar for 29.8 (756.9), the U. S. S. "Pensacola," in N. 32° 40′, E. 140° 58′, reporting barometer 29.78 (756.4), wind sse., force 3. On the 6th the centre of disturbance was to the eastward of 141° east longitude, and was apparently increasing in energy. The "Pensacola," in N. 32° 39′, E. 140° 58′, reported barometer 29.41 (747.0), wind n., force 9. During the 6th the disturbance disappeared over the Pacific.

XXIX.—This disturbance appeared off the southern coast of Kiusiu on the 7th, the pressure at the centre of depression being less than 29.6 (751.8). On this day rainy weather and strong winds to gales prevailed over Niphon and the southern districts. During the day the depression moved northeastward over southern Niphon, with decreasing pressure and increasing storm-energy, and on the 8th its centre was shown in northern Niphon, where the barometer now stood at 29.30 (744.2), while moderate to strong gales prevailed in all districts except that in the extreme southwest. By the following day the disturbance had apparently passed into the Sea of Okhotsk, and clearing weather set in over Japan.

XXX.—This disturbance, like its predecessor, appeared off the southern coast of Japan, on the 12th. It moved northeastward along the eastern coast of Niphon, and on the 13th, it was central to the northeastward of Japan, passing thence beyond the limits of the observations. During its passage it caused strong winds to gales, and rainy weather.

The depressions numbered xxix. and xxx., were unusually severe in Japan. The following interesting article by Mr. E. Knipping, giving a detailed description of the paths of these storms, was published in the "Japan Mail," of October 22d, 1883, and is given in full herewith:

Notes on the storms of October 7th to 9th, and 12th to 13th, 1883.

The geographical position of Japan, between the continent of Asia on one side, and the Pacific ocean on the other, makes its climate dependent on these two great expanses of land and water, which, in their influence on the distribution of pressure in summer and winter, show the greatest contrasts.

In winter a wide area of high pressure, or anti-cyclone, lies over central Asia, while a deep depression occupies the northern Pacific near the Aleutian

Islands, causing a constant air current over Japan from north and west. In summer the positions of the highest and lowest pressure are nearly reversed, the lowest being then in Asia, the highest over the eastern part of the north Pacific. At this time of the year south to east winds are prevalent in Japan.

Whenever these two commanding areas of high and low pressure are well established in the middle of winter and summer the weather in Japan shows the greatest constancy, but as soon as they commence shifting in the spring and fall the weather becomes unsettled and changeable.

The autumn changes of this year began on September 1st, and brought a number of smaller and three large depressions. The first of the large ones passed September 11th to 14th (see "Japan Mail" of September 24th); the second, October 7th to 9th; the third, October 12th to 13th; the two last ones being similar in many respects.

The storm of October 7th to 9th traversed the whole country from southwest to northeast with great rapidity and fury. It passed probably through or near the Riukiu Islands, crossed 30° north latitude in about 130° east longitude or more, was off Kii Channel on the 8th at 6 a. m., passed east of Wakayama and Osaka (noon), Kioto (1 p. m.) to Kanazawa, in Echizen (2 p. m.), thence via Niigata (5 p. m.) to near Aomori (10 p. m.), and through Tsugaru strait into Hokkaido, passing Sapporo earlier than 6 a. m. on the 9th.

In these twenty-four hours the centre thus traveled more than twenty-five n. m. p. h. on an average, the distance, Wakayama–Sapporo, being six hundred n. m.; but from 5 p. m. on the 8th its rate of progress was fifty-five n. m. p. h.

The weather map for Sunday, October 7th, 2 p. m., shows the first approach of this depression. The barometer had fallen at Kagoshima 3 mm. since the morning, while pressure was banking up over the Inland Sea and in eastern Nippon by 2 mm. As these changes were not known at the time in Tokiyo, the first intimation of a storm approaching the southern coast was received by special telegram from Kagoshima and Nagasaki, heavy gales blowing at both stations at 9 and 10 p. m.. respectively, so that the warning issued immediately to the southwest coast was late for these two stations.

On Monday morning the 8th the depression had made rapid progress, advancing towards the northeast. The centre was then off Kii Channel, with very steep gradients* over central Japan from 5 upwards to 9; north to east gales from Kochi to Hamamatsu, little wind yet in northeastern Japan and also in the extreme west, heavy rain all over southern Nippon.

At noon the centre was abreast of Wakayama and Ozaka; at 2 p. m. near Kanazawa, the barometer having fallen there 17 mm. in eight hours, the heaviest fall recorded at any station since the publication of the weather maps in March. In eastern Nippon gradients ranged about 6, and the rain extended further northward to Hakodate.

From 2 to 10 p. m. the fluctuations in pressure were greatest, a fall of 17 mm. being recorded at Aomori, a rise of 20 mm. at Kanazawa. The former station had a calm at 10 p. m., the centre of the storm being near the station, while Hakodate had an easterly gale; all eastern Nippon, south to west gales.

On the 9th at 6 a. m. the centre was beyond Sapporo. In the whole south the wind had gone down and Sapporo, near the centre, had light wind, but in Tsugaru Strait and in northern Nippon strong southwesterly gales were blowing, changing afterwards to west, and at Sapporo with increasing force to northwest. At night the last gales were recorded in the north.

At both Hokkaido stations the wind reached force 6†; at thirteen others, force 5; at three more, force 4; leaving four out of the twenty-two stations, with force 3, or less.

The lowest pressure recorded was at Wakayama, 738 mm.; Ozaka and Kiyoto, 737 mm.; Kanazawa and Niigata, 738 mm.; Aomori and Sapporo, 743 mm.; the centre travelling with the greatest speed at the time when the pressure near the centre was lowest.

At two stations the change of wind near the centre lagged considerably behind the passage of the minimum of pressure, namely, at Ozaka, where the lowest barometer was noted at noon; north wind at 1 p. m.; west wind at 2 p. m.; and at Niigata with lowest reading at 5 p. m.; southeast wind at 6 p. m.; southwest wind at 7 p. m. In slowly moving cyclonic storms the greatest change of wind takes places usually about the time when the barometer is lowest.

The amount of rain for two successive days was:

	mm.		mm.
At Wakayama	139	At Kanazawa	62
Ozaka	96	Hiroshima	59
Sapporo	93	Gifu	56
Kiyoto	89	Numadzu	40
Sakai	82	Tokiyo	39
Miyasaki	66	Hakodate	34
Miyako	64	all others	18 or less.
Kochi	63		

* Greatest barometric slope in mm. for 60 naut. miles.

† At stations provided with anemometers for registering the velocity of the wind, the following table is used:

	Scale 0-6
Up to 1.5	metres per second force 0
Up to 3.5	metres per second force 1
Up to 6	metres per second force 2
Up to 10	metres per second force 3
Up to 15	metres per second force 4
Up to 29	metres per second force 5
Above 29	metres per second force 6

Not provided with anemometers are: Kagoshima, Miyasaki, Shimonoseki, Sakai, Hamamatsu, Numadzu, Akita; at these stations the force is guessed.

Not two days after the disappearance of this storm in the north, on the 11th, the aspect in the south grew threatening again, another depression advancing with the same symptoms and in the same quarter as the one which had just passed.

Saturday, the 13th October, at 6 a. m., its centre was near Wakayama with the pressure then at 746 mm., exactly the same as five days earlier and also with very steep gradients in central Japan, ranging from 4 to 11. After passing Wakayama, however, the centre did not cross to the sea of Japan, but went straight ahead, being about midway between Niigata and Tokiyo at 2 p. m., entering the Pacific near Nobiru at 4 p. m.

The rainfall in this storm was also heavy, the following amounts being recorded:

	mm.		mm.
Gifu	150 in 3 days.	Numadzu	50 in 3 days.
Wakayama	113 in 2 days.	Hamamatsu	44 in 3 days.
Osaka	? ?	Akita	40 in 1 day.
Tokiyo	74 in 3 days.	Miyasaki	37 in 1 day.
Miyako	69 in 1 day.	Niigata	28 in 1 day.
Kiyoto	68 in 3 days.	Aomori	24 in 1 day.
Kanazawa	68 in 2 days.	Hakodate	16 in 1 day.
Nobiru	65 in 3 days.	Sakai	12 in 1 day.
Kochi	50 in 1 day.		

None at Nagasaki, Kagoshima, Hiroshima, Shimonoseki, or Sapporo.

Both storms traveled in general about northeast, the first a little more northerly.

	1st storm.	2d storm.
The greatest velocity of the centre was	55	38 n. m. p. h.
The lowest barometer	737	746 m. m.
The greatest fall of barometer in 8 hours	17	15 m. m.
The greatest rise of barometer in 8 hours	20	8 m. m.
The steepest gradient	9	11
Number of stations with gales (out of 22)	18	8

In both storms due warnings were given to the coast, late at some western stations in the first one, owing to want of telegrams. In sixteen hours, the interval during which the coast may at present be considered as not properly guarded, a storm traveling at the rate of twenty-five n. m. p. h. may be, at 2 p. m. on one day south of Odinawa, at 6 a. m. the next morning at Kagoshima.

Twin depressions following each other in short intervals and similar in many respects do not seem to be quite rare, as two instances were noted in July, one pair crossing Nippon with an interval of two days, another pair going over southern Hokkaido within six days, In July, as well as in October, the first of the pair was always the principal one.

E. KNIPPING.

TOKIO, October 17, 1883.

XXXI.—This disturbance appears to have originated over the northern part of the Sea of Japan. It apparently moved southeastward over northern Niphon, and on the 23d it was central off the northeastern coast of that Island, the pressure at the land stations being about 29.85 (758.2). By the following day the depression had disappeared from the chart.

XXXII.—This was a disturbance which had apparently moved up from the China Sea, and on the 30th it was near the Strait of Corea. It moved with decreasing pressure northeastward over the Sea of Japan, attended by rainy weather and high winds to gales in Niphon. At the close of the month the area of low pressure occupied northern Niphon, where the barometer ranged from 29.45 (748.0) to 29.5 (749.3).

The following depressions appeared in Behring Sea and in the north Pacific ocean:

XXXIII.—This was a disturbance which appeared in the north Pacific ocean, apparently moving to the westward, on the 9th and 10th. On the first mentioned date the s. s. "Oceanic," in N. 39° 34′, W. 179° 45′, reported barometer 29.76 (755.9), a fall of about .2 inch, wind nw., force 4 to 6, weather fair; on the 10th, in N. 39° 38′, E. 175° 45′, the barometer read 29.88 (758.9), wind sw., force 4 to 6, and on the same day the s. s. "City of Tokio," in N. 40° 56′, E. 171° 56′, had nnw. wind of force 6, with squally weather. The ship "Cambrian Monarch," in latitude 42° 20′ north, and longitude 180°, reported on the 10th having encountered a strong gale, in which the wind backed from nw. to sw. and s., after which the weather became settled.

XXXIV.—This is charted to indicate the presence of an area of low barometer which occupied the Aleutian archipelago and Behring Sea from the 9th to the 17th. During this period the pressure ranged from 29.5 (749.3) to 29.8 (756.9).

XXXV.—On the 20th, the barometer at Fort Saint Michael's, Alaska, fell to 29.22 (742.2). By the 21st, it read 29.01 (736.8) and the wind had shifted from se. to n., with light rain; on the 22d the pressure had increased to 29.8 (756.9).

XXXVI.—This was a depression which appeared in Alaska

on the 26th, when the barometer fell to 29.09 (738.9); by the the morning of the 27th, the area of least pressure was shown near Sitka. On the 28th, it extended southeastward over British Columbia and the Northwest Territories, and probably joined the depression charted as low area viii.

STORM TRACKS FOR APRIL, 1882.

The paths of thirty-seven atmospheric depressions are shown on the chart for April, 1882; these are distributed, geographically, as follows: eight are traced in the United States and Canada; of this number, five are traced from the region west of the Rocky mountains, southeastward or eastward to the Atlantic; two moved eastward along the northern boundary of the United States and Canada, and one, number iii, moved from the southwestern part of the United States northeastward to the lake region and thence eastward to the Atlantic. The tracks of eleven disturbances are shown over the north Atlantic ocean; of these, four are continuations of the storms which passed over the North American continent; three developed over the ocean west of the sixtieth meridian; three developed in mid-ocean, and one near the British coasts. The general movement of these depressions was to the northeastward between the parallels of 45° and 55° north latitude, that traced as number xi. being remarkable for its erratic track and its long duration in mid-ocean.

Thirteen depressions are traced in Europe, of this number four entered the continent south of the fiftieth parallel and passed southeastward to the Mediterranean, three appeared in eastern Europe, and one in the Black Sea region, while the remainder traversed the British Isles and northern Europe. The storms which crossed the British Isles moved, in general, from sw. to ne., while those in Scandinavia passed to the eastward and southeastward. One disturbance is shown in Greenland and four in eastern Asia.

The general direction of movement of the storms traced in April, 1882, does not materially differ from that of the preceding month (March, 1882), but they have moved at a somewhat lower latitude; and while fewer storms are traced in northern Europe, they are more numerous in the British Isles than was the case in the previous month. As a result of this there was a decided increase in the mean pressure over Scandinavia and other parts of northern Europe, with a corresponding decrease in the British Isles and southern Europe.

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

I.—This disturbance appeared in Manitoba on the morning of the 1st, its centre being enclosed by the isobar for 29.8 (756.9). As the disturbance traveled quickly eastward, it caused light rains in the lake region, and by the morning of the 2d, it had reached the province of Quebec, the pressure at the centre being now about 29.7 (754.4). During the day, it passed over northern New England and Nova Scotia into the Atlantic, still attended by rainy weather and brisk to high winds or moderate gales. On the 3d, the storm centre was in the Atlantic, and is hereafter described as low area xi.

II.—On the morning of the 3d this disturbance occupied Manitoba, Minnesota, and eastern Dakota, which districts were enclosed by the isobar for 29.8 (756.9), while, near the centre of disturbance, in Manitoba, the barometer read 29.64 (752.8). The disturbance moved rapidly eastward over Lake Superior, causing rainy weather and high winds on the lakes; on the 4th the region of low pressure was in northern Ontario and was closely followed by an area of high pressures which caused generally clear, freezing weather over the districts to the westward of the storm-centre. During the 4th the depression passed northeastward from the Saint Lawrence and reached the Atlantic from the coast of Labrador; this disturbance is hereafter referred to as low area xii.

III.—This disturbance developed in Arizona and New Mexico on the 4th; by the 5th its centre was enclosed by the isobar for 29.8 (756.9), which occupied Colorado and portions of Wyoming. During the day the depression moved northeastward and reached northern Iowa and Wisconsin, where it was central on the 6th; an area of high pressures occupied eastern Canada on the 6th, and as this disturbance moved over the lakes, steep barometric gradients were formed, so that high southerly winds to gales prevailed in the lake region. On the 7th the disturbance was in Ontario, whence it moved in a course slightly south of east over the Maritime Provinces, and passed into the Atlantic, being attended by rainy weather and strong winds. On the 8th the depression was shown to eastward of Nova Scotia, and is hereafter described as low area xiii. During the passage of this disturbance over Iowa and Wisconsin, severe tornadoes occurred in its southeast quadrant.

IV.—This depression appeared in the vicinity of Salt Lake City, Utah, on the 6th, and by the morning of the 7th it had moved into Colorado, where the barometer had fallen to 29.56 (750.8). During the 8th and 9th the disturbance moved slowly northeastward over Nebraska, southeastern Dakota, and Iowa, attended by rainy weather and brisk winds in the Mississippi and Missouri valleys, and by northerly winds and snow to the westward of the centre. During the 9th the course changed to the southeast and the disturbance passed rapidly over Tennessee and the Ohio valley toward the coast; on the 10th the disturbance was in North Carolina, whence it passed into the Atlantic and merged with low area ix., which was then central off the coast. Strong northerly winds with freezing temperatures and snow prevailed over the region north of the fortieth parallel as the disturbance passed to the coast, and disastrous tornadoes occurred in Kansas on the 6th.

V.—This disturbance appeared in California on the 9th; it moved southeastward during the 10th, crossed the Rocky mountains and appeared in northwestern Texas on the 11th; during this day it extended as a trough of low pressures from Montana southeastward to the Texas coast, while an area of high pressures occupied the country from Dakota southeastward to Mississippi and thence eastward to the Atlantic coast. On the 12th the barometric minima were reported from southern Texas, and during that day the disturbance passed off the Texas coast into the Gulf of Mexico; it moved eastward over the Gulf during the 13th and 14th, and apparently filled in during the last-mentioned date when near the western coast of Florida. During its passage across the Gulf the depression caused rainy weather and severe local storms in the Gulf states, and heavy "northers" on the Texas coast.

VI.—This disturbance appeared in Montana on the 15th, where a rapid decrease of pressure had taken place during the preceding twenty-four hours, the barometer having fallen from 30.20 (767.1) on the 14th to 29.8 (756.9) at the morning observation of the 15th. The depression moved south-southeastward during that date, and on the 16th it was shown in Utah, Colorado, and Arizona, with rain at Salt Lake City and heavy snow at Pioche, Nevada. During the 16th it moved eastward into Kansas, and thence northeastward over Nebraska to southwestern Iowa, where it was central on the 18th, its passage being marked by the occurrence of disastrous tornadoes in Missouri, Illinois, and Iowa, while generally rainy weather and brisk southerly winds prevailed over the central districts from the Gulf to the lake region. On the 19th the disturbance was central with increased energy in Wisconsin, the pressure near the centre having fallen to 29.2 (741.7). Heavy rains and high winds now prevailed over the lake districts and eastward to the Saint Lawrence river. By the morning of the 20th the isobar for 29.2 (741.7) extended from Georgian Bay eastward to northern New England and the province of Quebec. Moderate westerly gales and snow prevailed in the lower lake region, with unsettled, rainy weather in the districts to the eastward. During the 20th the depression moved eastward to the Bay of Fundy, where it was central on the 21st; it then passed northeastward over Nova Scotia, attended by strong gales on the Banks of Newfoundland and off the New England coast. On the 22d the centre was near Cape Breton Island, where the pressure was 29.25 (742.9); moving slowly eastward with no

material change of pressure at the centre it was shown off the southern coast of Newfoundland on the 23d. As the disturbance moved into the Atlantic an increase of pressure appears to have occurred, the barometric minima on the 24th being about 29.7 (754.4) on the eastern edge of the Banks, and by the following day the depression had disappeared from the chart.

VII.—On the morning of the 18th, the barometer at Sitka, Alaska, had fallen .7 inch, and by the following day, the decrease of pressure had extended to the northern boundary of the United States. On the 20th the circulation of the winds showed the presence of an area of low pressures in eastern Montana and Wyoming and in western Dakota, where the pressure was 29.6 (751.8); on the 28th the barometric minimum was in Kansas; northerly winds prevailed at stations on the eastern slope of the Rocky mountains, while southerly, southeasterly and easterly winds were reported at stations to the eastward and northward of the low area. During the 21st the depression moved slowly east-southeastward to southern Missouri where it was central on the 22d, causing rainy weather and strong easterly winds in the upper lake region and in the Mississippi valley; on the 23d the disturbance occupied the country east of the Mississippi river and south of the fortieth parallel, the lowest barometric readings being reported in Kentucky; during the day the depression passed off the Carolina coast with increasing pressure and finally dissipated during the 24th. This disturbance, like its predecessors, was accompanied by severe tornadoes in its eastern quadrants.

VIII.—This depression appeared on the north Pacific coast on the 24th, and moved rapidly southeastward to Colorado, where it was central on the 25th, the isobar for 29.8 (756.9) being elliptical in form, and extending from Montana southeastward to Kansas; on the following day, the depression, which had become contracted, occupied Illinois, and caused high easterly winds in the lake region. During the 26th, it moved eastward and passed into the Atlantic, the centre being shown near the coast of Delaware on the 27th; it then passed northeastward along the coast, and on the 28th, it was south of Nova Scotia, attended by moderate westerly gales near the fortieth parallel, and brisk to high northeasterly winds and occasional gales over Nova Scotia. During the 29th, it passed north-northeastward, and disappeared over the Gulf of Saint Lawrence.

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

IX.—This disturbance was indicated in about N. 37°, W. 68° on the morning of the 10th, by the report of the ship "Lake Erie"; that vessel in N. 38°, W. 69°, had barometer 29.47 (748.5), a fall of .43 inch, wind ene., force 6, heavy rain; and by the following day, in N. 38° 30′, W. 68° 30′, the barometer had risen to 29.56 (751.6), wind nw., force 3; vessels to the southward and westward of the "Lake Erie," had northerly and westerly winds of moderate force, while those on the fortieth parallel and to the eastward, had easterly and southeasterly winds of force 3 to 5. During the 10th, the disturbance moved northeastward, and on the 11th it was central in N. 41°, W. 63°, with the winds remaining moderate in force in all quadrants; during the 11th, its movement was northerly, and passing over the northern part of Nova Scotia, it entered the Gulf of Saint Lawrence, where it was central on the 12th, with the pressure about 29.5 (749.3) near the centre. After the 12th its movement was to the northwest and by the 13th, the centre of disturbance was over the mouth of the Saint Lawrence river, barometer at Father Point, Quebec, reading 29.21 (741.9), wind sw., 25 miles an hour, heavy snow; the disturbance then recurved and again crossed the Gulf, reaching Newfoundland on the 14th, causing moderate northwesterly gales over the Maritime Provinces and the Gulf of Saint Lawrence. This disturbance crossed the Atlantic and entered the continent of Europe, and is hereafter described as low area xiv.

X.—This was probably a continuation of the depression charted as low area x. on the chart for the preceding month, (March); it passed northeasward over Labrador at the close of that month, and was apparently to the westward of Godthaab, Greenland, on April 1st, the barometer at that station having fallen to 29.35 (745.2), wind s., force 6. By the following day the barometer had risen to 29.93 (760.2), and the depression had disappeared from the chart.

XI.—This was a continuation of the disturbance traced over Canada and northern New England as low area i. After reaching the Atlantic on the 2d the depression moved eastward, and on the 3d it was central near N. 43°, W. 53°, in which region the pressure was 29.56 (750.8), with moderate northerly gales to the westward of the sixtieth meridian and brisk southerly and southwesterly gales to the eastward of W. 50°. During the day the depression moved northeastward and was shown near N. 48°, W. 40° on the 4th, the lowest reported pressure being 29.31 (744.5); moderate to strong northwesterly gales prevailed during the day over the region west of 43° west longitude, with equally strong southerly gales to the eastward of 40° W. Continuing its northeasterly course, the disturbance reached N. 53°, W. 30°, on the 5th; at the same time another depression was to the northeastward of Newfoundland, and subsidiary disturbances existed over the ocean between N. 40° and 50° and W. 60° and W. 40°. Under the combined influence of these disturbances, strong variable winds to gales prevailed over the Atlantic ocean. On the morning of the 6th the depression had been forced to the southward and westward, while the area of high pressure which occupied northern Europe had spread over the ocean in a southwesterly direction. From the 7th to the 10th this depression remained, with slow and erratic movements and steadily decreasing pressure, over the region bounded by the parallels of 45° and 50° north latitude and the meridians of 30° and 42° west longitude, and during this time moderate to strong gales prevailed over the Atlantic. By the morning of the 10th the pressure at the centre of this disturbance had decreased to 29.1 (739.1) and very heavy gales were reported, especially in the southwest quadrant of the depression. During the 10th the storm-centre resumed its notheasterly movement, and by the 11th it was shown near N. 49°, W. 32°, the central pressure remaining unchanged and the winds increasing in force in all quadrants. On the 12th the centre was in N. 49°, W. 17°, and the disturbance had now extended its influence to the European coasts, while the gales to the westward of the thirtieth meridian had somewhat moderated in force. During the 12th it moved slowly northeastward with decreasing pressure, and by the 13th it was central off the west coast of Ireland, with the pressure at the centre about 28.75 (730.2). Strong south to southeast winds prevailed over France and the British Isles, with easterly gales on the fifty-fifth parallel and to the northward; and rainy, unsettled weather prevailed generally over western Europe. On the 14th the storm-centre was in Ireland, while a secondary disturbance was central in England, but the pressure had increased to 29.0 (736.6). Southwesterly gales prevailed over the Channel, but elsewhere the winds did not exceed the force of a strong breeze. During the 14th the disturbance moved over the North Sea, causing snow in the northern, and rainy, unsettled weather in nearly all districts. On the 15th the centre was shown over northern Denmark and the Skager Rack, the lowest reported pressure being 29.05 (737.9). It then moved northeastward over Sweden, and on the 16th was central, with slightly increased pressure, over the Gulf of Bothnia, causing moderate to strong gales in that region and over the Baltic, with rain or snow to the southwestward of the centre. On the 17th the disturbance occupied Finland, but the pressure had increased to 29.3 (744.2); high winds to gales and rain or snow accompanied the depression during that date, and by the 18th it had disappeared to the northeastward of the White Sea.

XII.—This was a continuation of the disturbance which passed off the coast of Labrador on the 4th, and before described as low area ii. On the 5th the depression was to the southward of Greenland, and by the following day it had passed into Greenland, causing the barometer at Godthaab to

fall to 29.41 (747.0), with the wind shifting from e. to n. On the 7th the disturbance disappeared from the chart.

XIII.—This was a continuation of the depression before described as low area iii. It passed into the Atlantic from the Maritime Provinces during the 7th, and on the following day the centre was indicated near N. 42°, W. 63°; it caused moderate to strong gales, especially in the southwest quadrants, and showery weather in the Maritime Provinces. During the 8th, it moved eastward, followed by northwesterly gales to the westward, and during the 9th it apparently become merged in low area xi., which occupied mid-ocean.

XIV.—This is a continuation of low area ix. After leaving Newfoundland it moved rapidly eastward, and on the 15th it was shown near N. 52°, W. 32°, the pressure at the centre being below 29.6 (751.8). Moderate gradients existed over the ocean, so that the winds during the 15th, did not exceed the force of 5–6; the disturbance moved east-northeastward during the 15th, and by the 16th, the pressure had decreased to 29.35 (745.5), in N. 53°, W. 15°. On the 17th, the depression occupied the British Isles, the minimum pressure, 29.27 (743.4), being in western Scotland, while unsettled weather, with rain or snow, was general in the western districts. On the 18th, the disturbance, having crossed the North Sea, was central off the coast of Germany, causing a continuance of showery and unsettled weather in western and central Europe. By the 19th, the depression had passed northeastward with increasing pressure, to southern Scandinavia, where it apparently dissipated.

XV.—This disturbance developed on the 16th near N. 36°, W. 60°, the lowest reported pressure in that region being 29.65 (753.1). The pressure decreased rapidly as the disturbance moved northeastward, and by the following day the storm-centre was in N. 44°, W. 44°, with the pressure at 28.6 (726.4). Captain E. Pilcher, commanding the ship "Lake Erie," in about N. 40° 40′, W. 52° 06′, reported on the 16th, at 10.30 p. m., Greenwich time: "Having experienced a moderate gale from ese. to s. all day with incessant rain; water tolerably smooth and barometer falling; the wind fell light towards sunset and veering into nw. suddenly blew a hurricane for about four hours, with tremendous sea from e. and n., lowest barometer 28.79 (731.3)." The following reports indicate the severity of the storm during the 17th: s. s. "Parthia," in N. 43° 40′, W. 43° 47′, barometer 28.54 (724.9), wind s., force 10, raining; s. s. "Rhynland," in N. 43° 44′, W. 42° 45′, barometer 28.58 (725.9), wind s., force 9, stormy; s. s. "Illinois," in N. 43° 06′, W. 43° 30′, barometer 28.69 (728.7), wind w., force 8, clear; s. s. "Celtic," in N. 45° 24′, W. 41° 11′, barometer 28.68 (728.5), wind s., force 6, misty; s. s. "Hermann," in N. 42° 23′, W. 44° 20′, barometer 28.77 (730.7), wind w., force 9, rainy. All vessels between W. 35° and 40° and N. 40° and 45°, had southerly gales of force 10, while those between W. 45° and 50° and the above-mentioned parallels of latitude, experienced northerly and northwesterly gales of force 8 to 9. During the 17th the disturbance moved northeastward, without change in the pressure at the centre, and accompanied by violent southerly and westerly gales. On the 18th the storm-centre was in N. 50°, W. 33°, the minimum barometric reading in that neighborhood being 28.7 (729.0). On the 19th the region of least pressure was shown near N. 56°, W. 27°, but the barometer had begun to rise and now read 29.1 (739.1), although the violent southerly to westerly gales continued without abatement. On the 20th the pressure had increased to 29.4 (756.7), and by the 21st this disturbance had moved northeastward and was central between Iceland and the Färöe Islands, while a subsidiary disturbance had formed near N. 50°, W. 30°; the latter moved eastward and developed great energy as it approached the British coasts, while the primary disturbance to the northward gradually decreased in intensity, and by the 22d it could not be traced as a separate depression.

XVI.—This was a slight depression which developed near the coast of the United States, south of Hatteras, during the 29th, and at the close of the month it was apparently central off the New England coast, with the pressure at the centre below 29.9 (759.4).

XVII.—This was a continuation of the disturbance traced as low area xxx. on the chart for March; it moved from the southern coast of Scandinavia southwestward over the North Sea at the close of that month, and on April 1 it was central to the southwestward of the British Isles. From that date until the 4th the depression lingered near the British coasts, with the pressure varying from 29.45 (748.0) on the 1st to 29.9 (759.4) on the 4th, and causing showery weather and fresh to strong winds over the British Isles.

XVIII.—This depression appeared in the Ural region on the 3d, the barometer at Ekaterinburg falling from 30.13 (765.3) on the 2d to 29.7 (754.4) on the 3d. By the 4th the pressure had decreased to 29.31 (744.4). On the 5th the depression occupied the province of Tomsk, Siberia; on the following day it was shown near Yeniseisk, whence it passed beyond the limits of the stations of observation.

XIX.—This disturbance appeared off the western coast of Spain on the 4th; it moved over the southern part of the Bay of Biscay during that day and entered southern France on the 5th. Passing eastward, attended by rainy weather in the Iberian peninsula and southern France, it reached the Mediterranean on the 6th, when it apparently dissipated.

XX.—An area of low pressures, within which the barometer ranged from 29.75 (755.6) to 29.95 (760.7), occupied the Italian peninsula and the eastern part of the Mediterranean from the 5th to the 10th, and during this period showery weather prevailed in those districts and in Algeria. During the 10th, the disturbance began to move eastward and on the 11th, it was shown over the Adriatic; by the following day it was in Austro-Hungary, attended by showery weather but increasing pressure and during the day it apparently filled in.

XXI.—This was a depression which appeared in northern Scandinavia on the 9th; it passed southeastward and on the 10th its centre was to the northeastward of Archangel, Russia, the barometer at that station reading 29.65 (753.1) wind nw. On the 11th the centre of disturbance was shown in the Ural region, the barometer at Ekaterinburg reading 29.76 (755.9), wind sw; during the 12th the depression apparently filled in. This disturbance did not cause any unusual weather conditions during its passage.

XXII.—On the 11th a disturbance developed over the western part of the Black Sea, causing fresh to strong winds in that region, with pressure about 29.55 (750.6). It passed east-northeastward, attended by strong northeasterly winds to gales along the northern shore of the Black Sea, and by the 12th it was central in Caucasia, where the barometer read 29.45 (748.0), with moderate northerly and northwesterly winds over the eastern part of the Black Sea. On the 13th the low area was to the southwestward of Akmolinsk, Siberia; by the following day it had passed to the northeastward and occupied the region between that station and Barnaul, with the pressure at the centre less than 29.35 (745.5). During the 14th the depression probably filled in.

XXIII.—This was a slight depression which developed in southern Scandinavia on the 11th, its centre being inclosed by the isobar for 29.8 (756.9); on the 12th it occupied the Baltic, causing moderate to strong northerly winds in Scandinavia, with rain or snow in the districts contiguous to the Baltic. On the 13th the storm-centre was over the Gulf of Finland, the barometer at Saint Petersburg reading 29.37 (746.0), wind ssw., light snow; during the day the disturbance appears to have moved in a south-southeasterly course, and on the 14th it was shown near Moscow, where the barometer read 29.41 (747.0); during that day the pressure increased and the depression disappeared from the chart.

XXIV.—This depression appeared in the extreme northern part of Scandinavia on the 12th, when the barometer read 29.58 (751.3) at stations in that region. It passed southeastward with decreasing pressure, and on the 13th it was to the

northeastward of the White Sea region; during the day it passed beyond the range of observations.

XXV.—This disturbance appeared in western France on the 15th, having approached the coasts from the Bay of Biscay; it was attended by rainy weather and strong northeasterly winds over the English channel. It passed in a southeasterly course over the central districts of France, and on the 16th, the centre of disturbance was over the Gulf of Genoa, where the pressure was about 29.65 (753.1); on the 17th the region of barometric minima was in northern Italy, but the pressure was increasing, and during the day the depression dissipated; moderate to heavy rains attended this disturbance throughout its course.

XXVI.—This depression appeared to the westward of the Ural mountains on the 19th, on which date the barometer at Ekaterinburg fell to 29.59 (751.6), wind ssw., rainy weather. On the following day the disturbance was in western Siberia, and by the 21st it had passed northeastward beyond the limits of the stations of observation.

XXVII.—This disturbance appeared off the Norwegian coast on the 20th, and was probably an off-shoot from low area xv; its centre on the 20th was enclosed by the isobar for 29.4 (746.7). On the 21st the area of low pressure occupied the head of the Gulf of Bothnia, being attended by moderate northwesterly gales along the coast of Sweden, and rain or snow in most places in Scandinavia and the Russian Baltic provinces. By the following day the disturbance had passed eastward over the White Sea districts and disappeared.

XXVIII.—This was a subsidiary disturbance which appeared near N. 50°, W. 30° when low area xv. was central near the Färöe Islands; the depression moved eastward with increasing energy and decreasing pressure during the 21st, and by the 22d it was central to the southwestward of Ireland, its centre being enclosed by the the isobar for 29.2 (741.7). Strong northerly gales were encountered by vessels between the meridians of 13° and 20° west longitude, and from N. 48° to 55°, with moderate to strong southerly winds to the eastward, and moderate westerly and southwesterly gales in the Bay of Biscay. On the 23d the centre of disturbance, having moved over the Irish Sea, occupied the northwestern part of England and was attended by moderate winds at English stations, but to the eastward and southward they attained the force of a moderate gale. During the 24th and 25th the low area remained over the northern part of the North Sea, with pressure near the centre about 29.0 (736.6), and causing rainy weather over the British Isles, western Europe, and Scandinavia, with strong winds to gales along the shores of the North Sea. During the last-mentioned day the disturbance appears to have moved southward, and was shown on the 26th, to the westward of the Danish peninsula, the pressure remaining about 29.0 (736.6); moderate to strong gales occurred in Denmark, Germany, and over the North Sea, and rainy weather continued in most districts. By the 27th, the course had changed to the northeastward, and the depression moved to Scandinavia, the barometer having risen to 29.35 (745.5); as the disturbance advanced with increasing pressure at the centre, the weather became fair in the districts to the westward of the centre, but rain continued to fall over the Gulf of Bothnia, while the wind moderated generally in all districts. During the 27th, the depression appears to have filled in.

XXIX.—This was a slight disturbance which appeared near Moscow on the 23d, its centre being enclosed by the isobar for 29.8 (756.9). By the following day the depression had filled in.

XXX.—This depression appeared near N. 53°, W. 30° on the 24th, with pressure at the centre about 29.65 (753.1), and attended by strong southwesterly gales in its southeastern quadrant. By the 25th the disturbance had reached the Irish coast. The winds over the region between W. 10° and 30° had now shifted to west and northwest, and blew with the force of a moderate or strong gale; in the absence of steep barometric gradients to the eastward the wind remained moderate in force. During the 25th the disturbance apparently passed over the British Isles and merged with low area xxviii, which occupied the North Sea on the 26th.

XXXI.—This disturbance appeared in northern Italy on the 27th, on which date the pressure in that district was 29.45 (748.0); rainy weather with strong northwesterly winds to gales prevailed over southeastern France with strong southerly and southeasterly winds in the Italian peninsula. On the 28th, the disturbance was over the Adriatic, with the pressure slightly above that of the preceding day; the winds in the southern part of Italy and over the Mediterranean had shifted to westerly and blew strongly, and the rain area extended over the Adriatic and to the western provinces of Austro-Hungary. On the 29th the disturbance was central in eastern Hungary, where the barometer read 29.55 (750.6); during the day the pressure began to increase and the depression filled in.

XXXII.—This disturbance appeared off the northwestern coast of Ireland on the 27th; it moved southeastward with decreasing pressure and by the following day it occupied the Irish Sea, and the greater part of England, the pressure near the centre of disturbance being about 29.1 (739.1). During the 29th the disturbance passed to the North Sea, and recurved to the northeastward, and was shown near the northeastern coast of Scotland; during the day it probably became merged in low area xxxiii., which had advanced over the British Isles from the Atlantic.

XXXIII.—This was a disturbance which appeared on the 28th near N. 47° W. 27°, in which region the barometer read 29.55 (750.6). During the day the depression moved eastward and on the 29th the area of low pressures occupied the British Isles with the minimum readings in Wales. Rainy weather and moderate to strong northerly and westerly gales prevailed over the region from the Saint George's Channel westward to the twelfth meridian, with strong westerly and southwesterly gales over the English Channel and along the French coast. On the 29th the disturbance moved over the North Sea, and at the close of the month it was central off the southern coast of Scandinavia, with the pressure below 29.15 (740.4). Moderate to strong southwesterly gales and showery weather prevailed over the North Sea and along the European coast from Belgium to Denmark.

The following are descriptions of depressions traced in eastern Asia:

XXXIV.—This disturbance apparently developed over the Sea of Japan on the 3d, the pressure having decreased about .3 inch over that region, and the adjacent land areas on that date. The centre of disturbance apparently moved north-northeastward along the western coast of Niphon, and on the 4th, the barometric minima were in the northern part of that island, and ranged from 29.4 (746.7), to 29.55 (750.6); during its passage northward, unsettled, showery weather prevailed in Japan. The disturbance moved northward to the Sea of Okhotsk, where it apparently remained until the 8th, when it gradually disappeared; during the period from the 5th to 8th, the barometer at Nikolaevsk, on the Amoor, varied from 29.39 (746.5), to 29.43 (747.5).

XXXV.—This was a well-defined depression which appeared in southern Japan on the 12th; it was preceded by rainy weather during the 11th, and on the 12th the barometer fell to 29.65 (753.1); rain continued throughout Japan, and high winds, ranging from twenty-five to forty-five miles an hour, occurred at numerous stations. By the 13th the region of least pressure was transferred to the northern districts, where the southwesterly winds increased in force while the westerly and northwesterly winds in the southern districts moderated. On the 14th the depression passed into the Pacific and beyond the field of observation.

XXXVI.—This was a depression which probably developed in northeastern China during the 20th and 21st. On the 22d it was shown over the northern part of the Sea of Japan, its centre being enclosed by the isobar for 29.8 (756.9); on the following day the pressure increased to 30.0 (762.0) and the depression disappeared.

XXXVII.—This depression appeared to the westward of Zi-Ka-Wei on the 26th, on which date the barometer at that station read 29.65, (753.1) wind s. raining; being a fall of .29 inch during the preceding twenty-four hours. On the 27th, the depression occupied the Yellow Sea and the peninsula of Corea, the pressure ranging from 29.55 (750.6) to 29.6 (751.8) with rainy weather in southern Japan. On the 28th, the disturbance, having moved northeastward, was shown near Vladivostock, where the barometer read 29.24 (742.7). On the following day the depression appears to have recurved and moved southwestward, as shown by the shift of the wind at Vladivostock; at the close of the month, it was shown as an extensive depression stretching from northeastern China to the Sea of Okhotsk.

GENERAL REMARKS.

DAILY BULLETIN.

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

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

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

BOUNDARIES OF DISTRICTS.

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

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

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

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

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

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

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

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

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

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

CANADIAN SERIES (furnished by co-operation of Charles Carpmael, A. M., F. R. A. S., Director of the Magnetic Observatory at Toronto and Superintendent of the Meteorological Office of the Dominion of Canada, and respective observers).—The originals give the barometer reduced to sea-level in English inches and the temperature in Fahrenheit. Meteorological reports from stations marked with a * are telegraphed daily to the office of the Chief Signal Officer of the Army. At St. John's, N. F., the barometer appears read about .10 inch too high, which correction has been applied from August 1st, 1883. On October 1st elevation of barometer changes to 816 feet at London and to 200 feet at Ottawa.

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

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

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

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

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

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

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

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

INDIAN SERIES (furnished by co-operation of H. F. Blanford, Meteorological Reporter to the Government of India at Calcutta).—The barometric observations refer to the Calcutta standard, which requires a correction of

—0.011 inch, or 0.28 mm., as compared with the Kew standard. The wind-velocity given is the average rate of wind since the observation of the preceding day. All conversions are published as given in the originals, where the data are recorded to an additional decimal. The weather is given by the Beaufort notation, Vienna symbols, or special symbols.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY

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

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

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

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

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

MONTHLY SUMMARY OF INTERNATIONAL SIMULTANEOUS METEOROLOGICAL OBSERVATIONS.

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

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

ERRATA.

DAILY BULLETIN, October 11, 1883, page 7, district No. 1, bk. "Ibis," for longitude W. 74° 40′, read 74° 00′.

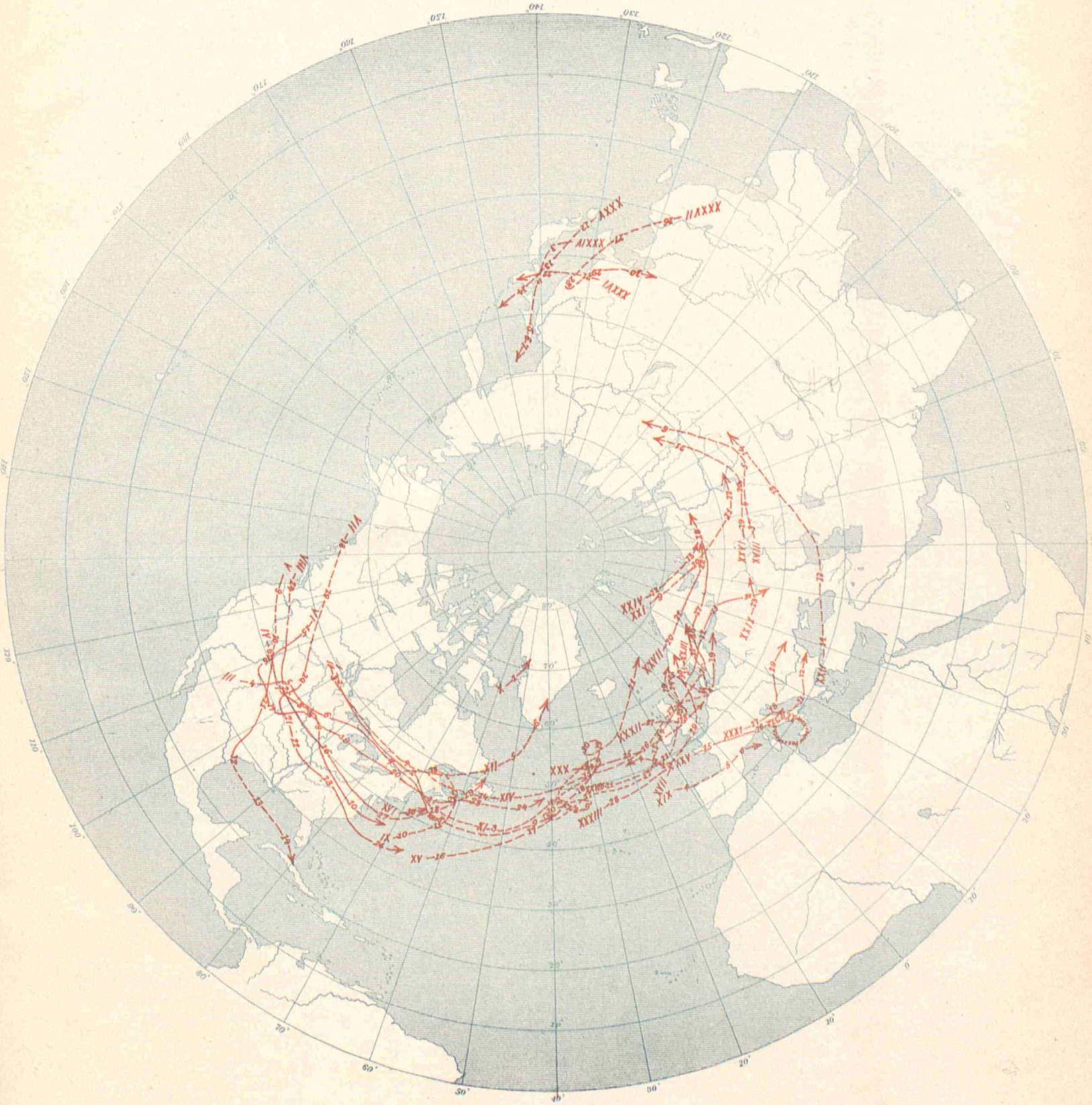
15th, page 2, make observer at Cape Town, Cape Colony, Capt. R. Gardner Warton, and move I. Garfelt and names above up one line, so that I. Garfelt will be opposite Cape St. Francis Light-house and Miss Grace Pope opposite SW. Point, Anticosta; same correction on 16th, 18th, 19th, 20th, 21st.

Page 2, Chilian, Valparaiso, from October 1st to 12th, inclusive, reduced barometer reads 0.05 inches or 1.3 mm. too high.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

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

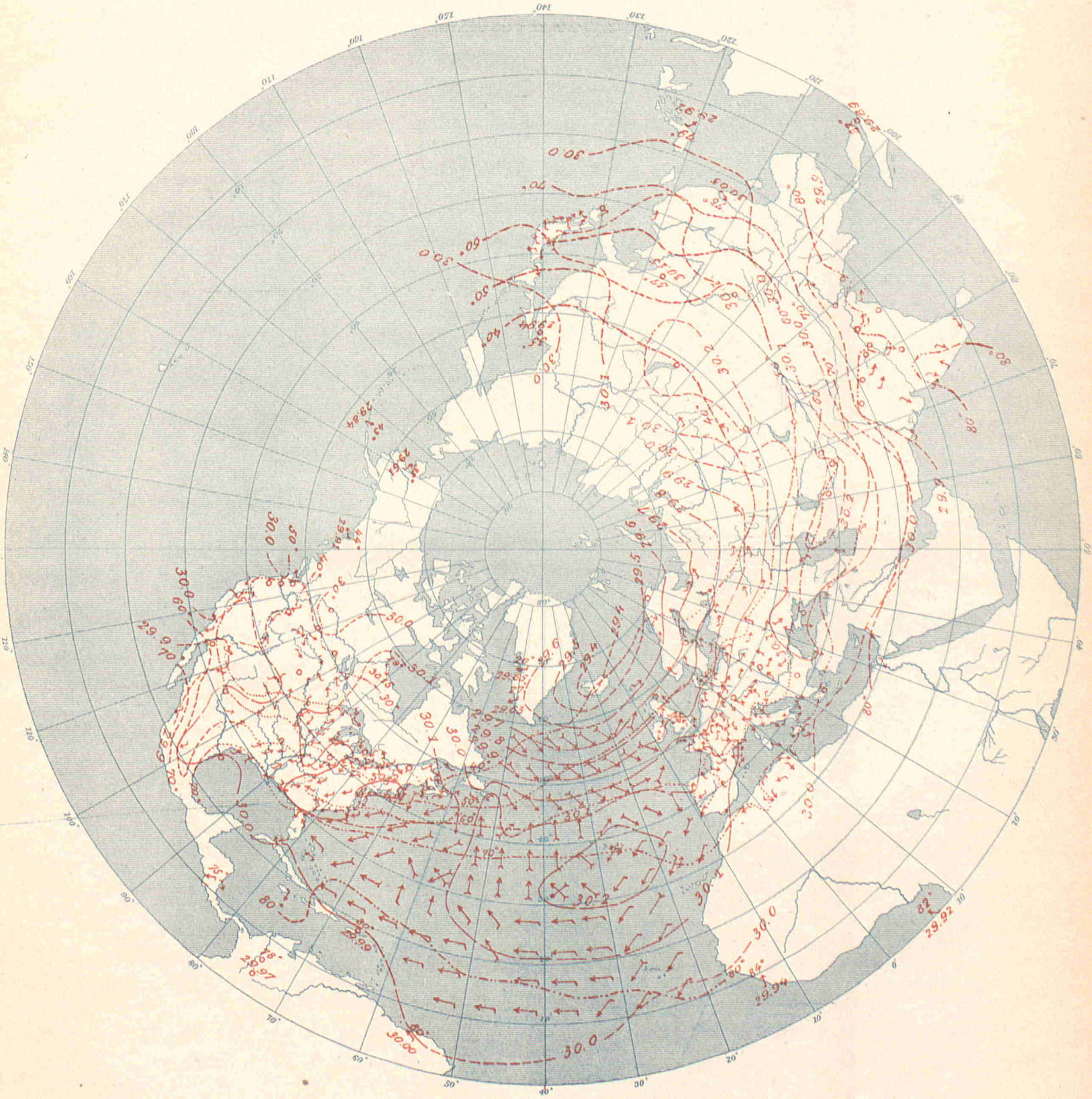


UNITED STATES OF AMERICA.

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

Signal Office Lith.

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



UNITED STATES OF AMERICA.

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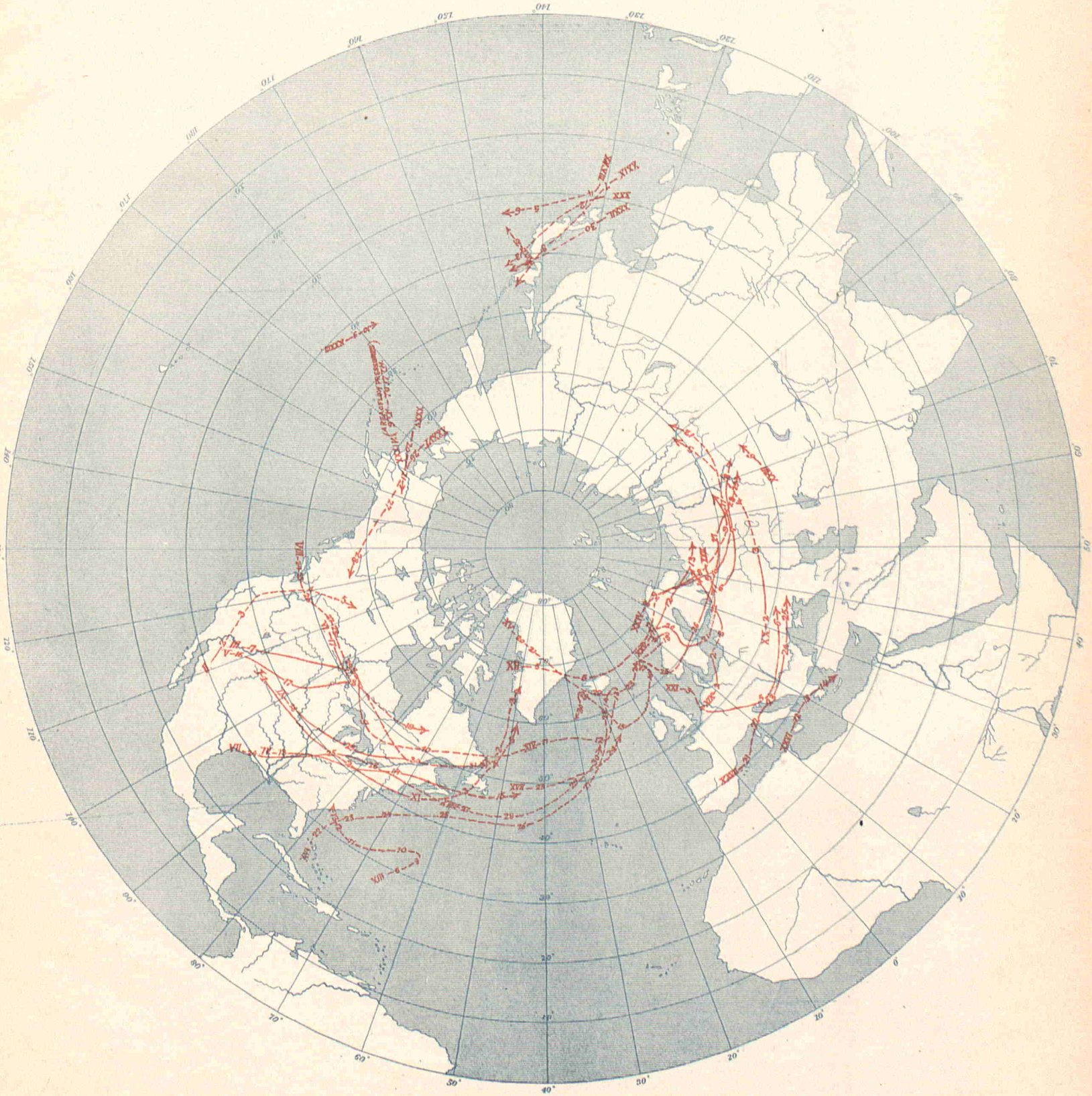
W. B. Hazen, Chief Signal Officer.

Signal Office Lith.

International Chart III. October, 1883. Storm-Tracks.



UNITED STATES OF AMERICA.

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